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Earth-Venus Trajectories, 1968-69

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FOREWORD

This volume is one of a set of five giving key characteristics of Earth-to-Venus trajectories during the period 1964-1970. This period is divided into five 120-day launch intervals spaced about 19.2 months apart. During each interval, trajectory characteristics are given for flight times of from 70 to 220 days in 2-day steps. Thus each volume contains 9,120 trajectories.

The applicability of these books may be extended by noting the 8-year cyclic recurrence of Earth-Venus trajectories. Thus trajectories in 1972 are very nearly identical to 1964 trajectories; 1973 trajectories are very nearly identical to 1965 trajectories, etc. Simply by updating the trajectories by 8 years, the results may be reapplied.

It is intended that these books provide trajectory and guidance analysts with data, in volume, so that they may perform preliminary design studies, conduct investigations of the properties of ballistic interplanetary trajectories, and make interplanetary guidance and orbit determination analyses. While not exact, these trajectories are sufficiently accurate to be quite useful for the above purposes.

In generating such a large amount of data, it is impossible to check the correctness of each number. Should the reader detect any errors, the authors would appreciate being advised.

Companion volumes (Ref. 1) give the characteristics of Earth-Mars trajectories during the period 1964-1977.

I. INTRODUCTION

This report presents the results of extensive machine computations of three-dimensional ballistic interplanetary trajectories. The analytic model used to represent these trajectories is based upon two-body, inverse-square, force field mechanics. A brief explanation of the model is presented in Section II.

Basically, the trajectories are calculated in two distinct parts: (1) the heliocentric transfer ellipse and (2) the launch-planet-centered escape trajectories. Following these trajectories, differential corrections or error coefficients and guidance and tracking parameters are given.

A. Heliocentric Conic Computation

The heliocentric trajectory is obtained by specifying the launch date and flight time only. Given these, the positions of the launch planet on the launch date and the target planet on the arrival date may be obtained by interrogating the ephemerides. By assuming the planets to be massless, a unique heliocentric trajectory may then be computed which passes through the centers of the launch and target planets. Though this assumption may at first seem gross, experience has proved it to be perfectly reasonable for this purpose. After the solution has been obtained by an iterative procedure, the orbital elements, heliocentric position, and velocity vectors at launch and arrival are computed. Other heliocentric quantities of engineering interest are also computed.

B. Planetocentric Conic Computation

After the heliocentric orbit is obtained, the launch and arrival hyperbolic-excess velocity vectors are computed by subtracting the velocity vectors of the launch and target planets from the heliocentric launch and arrival velocity vectors of the probe. The launch hyperbolic-excess vector is, in fact, the most important result of these computations because it yields the energy and direction of fire required to achieve interplanetary transfer.

Further computations are done to exhibit properties of the near-Earth portion of the trajectories. Given the launch hyperbolic-excess vector, a launch site (Cape Canaveral), a launch azimuth, and certain properties of a typical interplanetary boost vehicle, and assuming a 100-nm parking orbit, quantities such as launch time, injection position and velocity vectors, parking orbit coast time, and injection time are computed. In essence, then, approximate trajectories are obtained from the

launch pad to the target. The terminal portions of the trajectories are assumed to impact vertically on the target planet.

C. Differential Corrections

To augment the trajectory parameters, differential corrections or error coefficients relating variations in the launch hyperbolic-excess velocity vector to variations in target miss and flight time are computed. Actually, the variables at launch in these coefficients are the square of the hyperbolic-excess speed, or *vis viva* energy C_3 , and the declination and right ascension of a unit vector S , collinear with the outgoing asymptote of the escape hyperbola. The target variables are the components of the impact parameter B , defined below, and the flight time. These coefficients are obtained by a numerical differencing technique developed by William Kizner of JPL.

Based upon these error coefficients, guidance and tracking parameters are calculated as described below.

D. Mid-Course Guidance

Interplanetary guidance is currently being accomplished by determining the orbit of the probe from radio tracking data and then applying one or more impulsive velocity corrections to null the predicted target error. The guidance task closely parallels the trajectory problem, for it is convenient to define the following guidance "phases":

1. Planetocentric phase, in which, after the launch vehicle has placed the probe on its escape hyperbola, the orbital elements of this trajectory are determined and the hyperbolic-excess velocity is corrected to the desired value.
2. Heliocentric phase, in which additional velocity corrections may be made to correct any error in orbit determination and/or maneuver execution in phase 1.
3. Approach phase, in which the probe is in the sphere of influence of the planet and the final vernier corrections may be made to trim the results of phase 2.

The preflight analysis of phase-1 guidance is primarily concerned with the statistical problem of determining how much propellant to carry aboard the spacecraft in

order to correct a "three-sigma" injection guidance error. These studies are well-documented elsewhere (Ref. 2-4) and will not be discussed here. Suffice it to say that correcting the hyperbolic-excess velocity is a reasonably good approximation to nulling the miss components at the planet. Such an analysis need only be concerned with the planetocentric phase of flight.

The analysis of the heliocentric phase is more complicated, since maneuvers there depend upon errors in applying the first midcourse maneuver (phase 1). In order to understand the effect of phase 1 errors, or to specify a tolerance on them, it is convenient to ask how a unit error in hyperbolic-excess velocity maps to miss at the target. This unit velocity error can be thought of as due to uncertainties in phase-1 maneuver execution and orbit determination. Conceptually, this analysis can be accomplished by letting a unit velocity error trace out a sphere at the tip of the hyperbolic-excess velocity vector and observing the semimajor and semiminor axes of the miss ellipse at the target (only two miss components are normally of interest). Mathematically, this is done by simply forming a matrix of the differential corrections, multiplying this matrix by its own transpose, diagonalizing the resulting symmetric matrix, and observing that the two diagonal terms are the desired semimajor and semiminor axes of the unit error ellipse.¹ It is easy to show that if the coordinate system chosen to describe the target error is collinear with these axes, the rows of the resulting differential correction matrix (which are gradient vectors) are orthogonal, and their norms are the magnitudes of the error-ellipse axes.

The approach guidance phase is not conveniently treated with this kind of analysis, and is not discussed further. Here, it can be assumed that the approach maneuvers are always negligibly small.

E. Orbit Determination

A spacecraft boosted toward Mars or Venus by the current generation of launch vehicles requires the accuracy obtainable using Earth-based radio guidance in order to accomplish most planet-oriented experiments. The steps in radio guidance are:

1. Track the transponder signal from the spacecraft from several stations located at a spread of latitudes to determine the orbit of the spacecraft.

¹It should be apparent to readers familiar with statistical concepts that this is equivalent to mapping a three-dimensional gaussian distribution of velocity errors, with unit standard deviation along each axis, to a two-dimensional gaussian distribution of position errors at the target.

2. Calculate the velocity changes required to alter the orbit to pass through the desired region at the target. The maneuver is then applied with a small rocket motor; the pointing direction and burning time (of the velocity increment) are calculated to perfectly correct the orbit if both the estimate of the orbit and the application of the maneuver are without error.
3. Track the spacecraft after the first maneuver for a sufficient interval to form a new estimate of the perturbed orbit.

This process of tracking and maneuvering may be repeated several times to achieve high accuracies at the target. There is, however, a limit to the process imposed by our uncertainties in the actual location of the target planet as well as the unpredictable forces acting on the spacecraft.

For extremely high accuracy at the target planet, on-board measurements must be used in conjunction with the Earth-based tracking in order to further reduce the above-mentioned uncertainties. It is not the function of this report to discuss on-board measurement systems but rather to describe the capabilities of current Earth-based radio guidance techniques when applied to interplanetary trajectories.

An adequate description of the accuracy to which orbits may be determined and maneuvers executed for the case of several corrective maneuvers is beyond the scope of this report. The results presented here may be strictly interpreted as corresponding to the accuracy capabilities for a single mid-course maneuver occurring anywhere between 1 and 14 days after injection. The relative contribution to the target uncertainty caused by orbit determination errors and mid-course execution errors depends directly upon the size of the correction required on a particular flight. For this reason, then, two error sources are considered separately. While our results do correspond to the single maneuver case, they are very valuable in providing a general description of the way in which these errors vary over the selected set of trajectories. Such utilization of the results is discussed later herein.

F. Accuracy of Computations

Extensive accuracy studies were performed to verify the adequacy of these trajectories for preliminary design use. Both Mars and Venus trajectories were computed on the JPL precision-integrating trajectory program using

initial conditions obtained from the approximate trajectories contained herein. Of 56 Mars cases run, 29 missed the target by less than 500,000 km; 16 missed by between 500,000 and 1,000,000 km; and 5 missed by between 1,000,000 and 1,500,000 km. The worst case missed by 3,500,000 km. For the flight time errors, 16 varied between 1 and 2 days; 14 varied between 2 and 3 days; and 9 were greater than 3 days. The worst case was 7.2 days. No systematic properties of these errors were noted except that they appear to get worse for the higher-energy trajectories.

For Venus, the accuracy was considerably better, averaging 322,000-km miss error and 0.67-day flight time errors. Based on these comparisons, the model used to generate the trajectories contained herein is considered to be adequate and the results suitable for preliminary mission design studies. These results are very useful for initializing the precision trajectory search program.

When used for the stated purposes, these trajectories provide an excellent source of data obtained at considerably less time and expense than precision cases.

II. ANALYTICAL MODEL FOR INTERPLANETARY TRAJECTORIES

The analytical model consists of three distinct phases of two-body motion: (1) an escape hyperbola near the launch planet, (2) elliptical² motion under the attraction of the Sun, and (3) terminal hyperbolic motion near the target planet.

A. Heliocentric Motion

Solution of the heliocentric elliptic motion is obtained first under the following assumptions:

1. The launch and target planets move in orbits about the Sun as given in the national ephemerides. Their velocity components are obtained by using two-body conic formulas, mean orbital elements, and their tabular positions as listed in the ephemerides.
2. The launch and target planets are massless. Thus the only force acting on the probe is that of the Sun.
3. The position of the probe at launch into the heliocentric orbit is the center of the massless launch planet. Its position at arrival on the heliocentric orbit is the center of the massless target planet.

²Hyperbolic heliocentric motion is not considered herein.

Thus for solution to the heliocentric phase of motion, the attractions of the launch and target planets are temporarily disregarded. The primary result to be obtained from the solution of the heliocentric transfer problem is the hyperbolic-excess velocity vector relative to the launch planet.

1. Determination of Planar Orientation

Since the launch and arrival positions of the probe are assumed to be the centers of the launch and target planets, they can immediately be determined, given the launch and arrival³ times, by consulting the ephemeris. Further, the orientation of the heliocentric transfer plane can immediately be found. Let \mathbf{R}_L be the Sun-launch planet position vector at launch time T_L , and let \mathbf{R}_p be the Sun-target planet position vector at arrival time T_p (Fig. 1). Then, planar orientation is found from the unit normal \mathbf{W} to the plane as follows:

$$\mathbf{W} = \frac{\mathbf{R}_L \times \mathbf{R}_p}{R_L R_p \sin \Psi} \quad (1)$$

³Or, for convenience, the launch date and flight time can be specified.

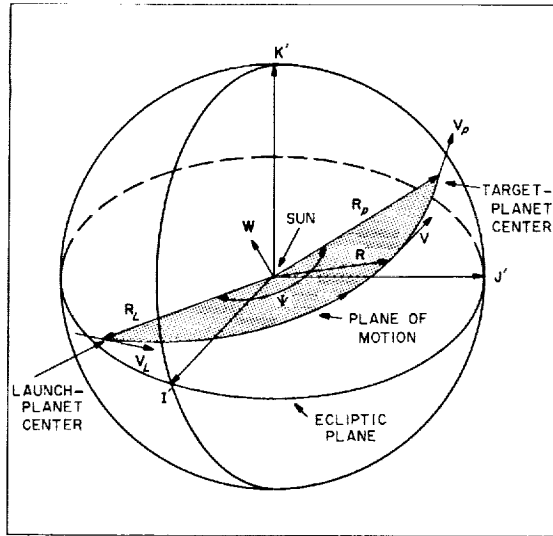


Fig. 1. Heliocentric transfer geometry

where the angle Ψ is defined below. The inclination⁴ i to the ecliptic plane can be found by

$$\cos i = \mathbf{W} \cdot \mathbf{K}' \quad (2)$$

where \mathbf{K}' is a unit vector pointing in the direction of the ecliptic north pole.

2. In-Plane Relations

The heliocentric central angle Ψ (Fig. 1) is also readily determined by utilizing the positions of the launch and target planets. This angle may be obtained from

$$\cos \Psi = \frac{\mathbf{R}_L \cdot \mathbf{R}_p}{|\mathbf{R}_L| |\mathbf{R}_p|} \quad (3)$$

$$\sin \Psi = \text{sgn}[(\mathbf{R}_L \times \mathbf{R}_p) \cdot \mathbf{K}'] (1 - \cos^2 \Psi)^{1/2} \quad (4)$$

The velocity vector \mathbf{V} of the spacecraft anywhere along its path may be obtained from

$$\mathbf{V} = \frac{V}{R} [(\mathbf{W} \times \mathbf{R}) \cos \Gamma + \mathbf{R} \sin \Gamma] \quad (5)$$

Here, \mathbf{R} is the heliocentric position vector, $R = |\mathbf{R}|$, and V is the heliocentric speed obtained from

$$V = \sqrt{GM_s \left(\frac{2}{R} - \frac{1}{a} \right)} \quad (6)$$

⁴In this report, we are interested only in transfers which have the same rotational motion about the Sun as the planets; thus, $0 \leq i \leq \pi/2$.

and the path angle Γ is found from

$$\sin \Gamma = \left[\sqrt{\frac{R}{(1-e^2)(2a-R)}} \right] e \sin v \quad (7)$$

In Eq. (6) and (7), GM_s is the universal gravitational constant times the mass of the Sun ($= 2.959122083 \times 10^{-4} \text{ au}^3/\text{day}^2$), a and e are the semimajor axis and eccentricity of the transfer ellipse, respectively, and v is the true anomaly of the probe given by

$$\cos v = \frac{a(1-e^2) - R}{eR} \quad (8)$$

3. Lambert's Theorem

Now there are two unknowns in Eq. (5)–(8) which prevent their immediate evaluation. These two unknowns are the semimajor axis a and the eccentricity e . The determination of these quantities is the main problem. Battin (Ref. 5) has shown that the eccentricity is actually a function of the semimajor axis. Thus it is first necessary to determine a . The semimajor axis is related to the time of flight T_F by Lambert's Theorem, which states: *The transfer time between any two points on an ellipse is a function of the sum of the distances of each point from the focus, the distance between the points, and the semimajor axis of the ellipse.* Functionally, the theorem is stated as

$$T_F = T_F(R_L + R_p, C, a) \quad (9)$$

where the distance C between the launch planet at launch time and the target planet at arrival time is shown in Fig. 2 and is obtained from

$$C = |\mathbf{R}_p - \mathbf{R}_L| \quad (10)$$

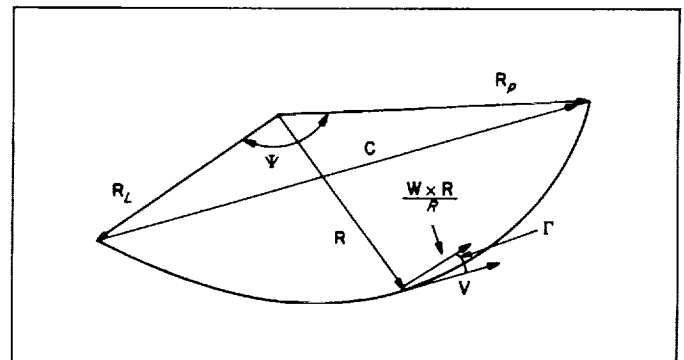


Fig. 2. In-plane transfer geometry

Since the time of flight T_F and the launch and arrival positions R_L and R_p are knowns, only the semimajor axis

remains to be found by iterative solution of Eq. (9). After the semimajor axis a is obtained, the heliocentric velocities of the probe at launch and arrival time V_L and V_p may be evaluated from Eq. (5) under the conditions $R = R_L$ and $R = R_p$. The path angles Γ_L , Γ_p and true anomalies⁵ v_L , v_p at launch and arrival times may also be evaluated from Eq. (8) and (7) under the same conditions.

Finally, the desired end result, the hyperbolic-excess velocity V_{hL} relative to the launch planet may be found (Fig. 3) by

$$V_{hL} = V_L - V_1 \quad (11)$$

where V_1 is the velocity of the launch planet at launch time.

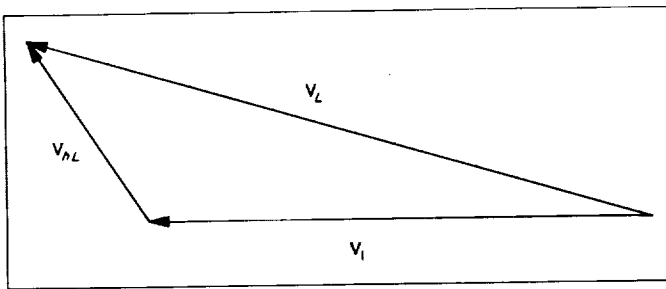


Fig. 3. Determination of the hyperbolic-excess velocity vector V_{hL}

B. Launch Planet Escape Hyperbola

The key result from the solution of heliocentric transfer is the hyperbolic-excess velocity vector V_{hL} at launch. The reason for the importance of this vector is that it tells the direction in which the probe must be traveling relative to the launch planet when just leaving its gravitational influence. There are an infinite number of escape trajectories (all hyperbolas) which can have the same hyperbolic-excess velocity vector. However, only a portion of these are practical for use when related to existing launch sites and boost vehicle constraints. For example, it would be ridiculously costly in payload—and impractical—to shoot a vehicle straight up. Criteria for selection of a family of feasible escape trajectories are given below.

1. Assumptions

The solution of the escape phase of motion is obtained under the following assumptions: (1) The probe is acted on only by the gravitational force of the launch planet, and (2) the oblateness effects of the launch planet are neglected.

⁵The details of quadrant choice for these angles are found in Ref. 5.

The direction of the asymptote of the escape hyperbola is found by normalizing the hyperbolic-excess vector V_{hL} . The injection energy⁶ C_3 of the escape hyperbola is found by squaring the hyperbolic-excess speed, or

$$C_3 = V_{hL}^2 \quad (12)$$

Thus, in contrast to the heliocentric problem, the launch planet is now “massy,” while the influence of the Sun is neglected. However, the hyperbolic-excess velocity vectors found by solving the heliocentric problem are used as a starting point to solve the escape problem.

2. Size and Shape of the Escape Hyperbola

As previously stated, only some of the infinite number of escape trajectories are practical. Two of the practical aspects of a set of trajectories are the sizes and shapes of the hyperbolas.

Size is basically determined by the energy C_3 , which in turn is a function of boost vehicle capability. For boost vehicles in use (or shortly to be available) at this writing, values of energy less than or equal to $25 \text{ km}^2/\text{sec}^2$ are considered reasonable. The larger the value of energy that the booster is required to deliver, the smaller the payload and launch period over which the vehicle may be fired.

The shape of the hyperbola is determined by its eccentricity, which is a function of both the energy and perifocal distance according to

$$e = 1 + \frac{R_p C_3}{GM} \quad (13)$$

where R_p is the perifocal distance and GM is the universal gravitational constant times the mass of the launch planet. From Eq. (13) it can be seen that for a fixed perifocal distance the eccentricity increases linearly with the energy. The value of perifocal distance is not arbitrary, but depends strongly on the boost vehicle trajectory. It has been shown (Ref. 6) that in the great majority of cases it is necessary and desirable to use a circular parking orbit as part of the preinjection phase of the escape trajectory. It is further an interesting fact that the altitude of the parking orbit determines the perifocal distance. If h is the parking orbit altitude and R_0 is the launch planet's radius, then, to an extremely close degree of approximation,

$$R_p = R_0 + h \quad (14)$$

⁶ C_3 is actually twice the total energy per unit mass, i.e., the *vis viva* integral.

with the constraint that the Z component of \mathbf{W} is always positive.

Since \mathbf{R}_L^1 is a function of time, according to the rotation rate of the launch planet, the planar orientation must continually change. In effect, this says that the launch azimuth is a continuous function of launch time.

A detailed description of the geometrical aspects of the launch planet ascent trajectory is not given here but may be found in Ref. 6.

C. Differential Corrections

The calculation of differential corrections for interplanetary trajectories may be accomplished in several ways and depends on choice of independent and dependent variables. In this report, a numerical differencing scheme is used. Basically, the independent variables—the injection energy C_3 , declination Φ_s , and right ascension Θ_s of the outgoing asymptote \mathbf{S} of the escape hyperbola—are varied, one at a time, to produce variations in the dependent variables—the components of the impact parameter \mathbf{B} and the time-of-flight T_F .

The impact parameter \mathbf{B} is defined as a vector originating at the center of the target planet and directed perpendicular to the incoming asymptote of the target-centered approach hyperbola (Fig. 5). The impact parameter \mathbf{B} is resolved into two components which lie in a

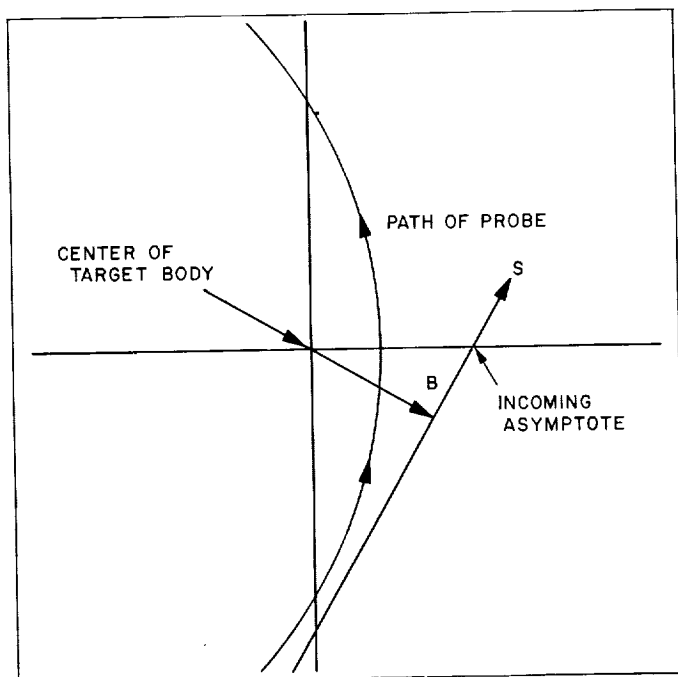


Fig. 5. Impact parameter \mathbf{B}

plane normal to the incoming asymptote \mathbf{S} . The orientations of the reference axes in this plane are arbitrary, but one is usually selected to lie in a fixed plane. Thus, define a unit vector \mathbf{T} , lying in the *ecliptic* plane according to

$$\mathbf{T} = \frac{\mathbf{S} \times \mathbf{K}'}{|\mathbf{S} \times \mathbf{K}'|} \quad (16)$$

where \mathbf{K}' is a unit normal vector to the ecliptic plane. The remaining axis is then given by a unit vector \mathbf{R} , defined by

$$\mathbf{R} = \mathbf{S} \times \mathbf{T} \quad (17)$$

Figure 6 illustrates the orientation of the \mathbf{R} , \mathbf{S} , \mathbf{T} target coordinates.

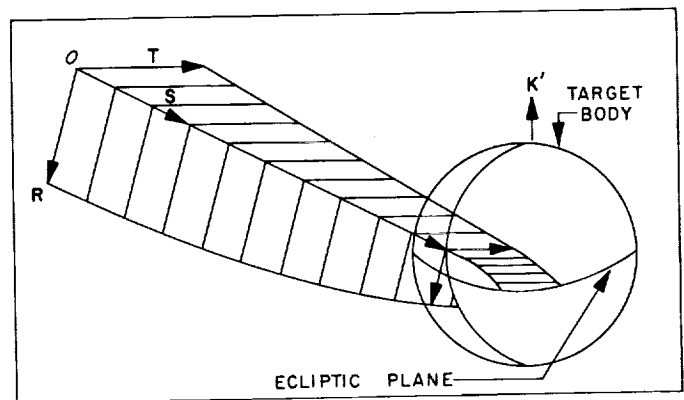


Fig. 6. The \mathbf{R} , \mathbf{S} , \mathbf{T} target coordinate system

The impact parameter \mathbf{B} lies in the \mathbf{R} - \mathbf{T} plane and has miss components $\mathbf{B} \cdot \mathbf{T}$ and $\mathbf{B} \cdot \mathbf{R}$. $\mathbf{B} \cdot \mathbf{T} = \mathbf{B} \cdot \mathbf{R} = 0$ denotes vertical impact on the target. Thus, $\mathbf{B} \cdot \mathbf{T}$, $\mathbf{B} \cdot \mathbf{R}$, and T_F are the three target-dependent variables. If Q_i represents a set of generalized independent variables, such as injection position and velocity or other convenient variables, then the partial derivatives $\partial \mathbf{B} \cdot \mathbf{T} / \partial Q_i$, $\partial \mathbf{B} \cdot \mathbf{R} / \partial Q_i$, $\partial T_F / \partial Q_i$ are first-order differential corrections or error coefficients relating miss at the target and flight time errors to the independent variables.

A convenient set of independent variables for interplanetary trajectories is the *vis viva* injection energy C_3 , the declination Φ_s , and the right ascension Θ_s of the asymptote of the escape hyperbola. These variables essentially describe the launch hyperbolic-excess velocity vector since

$$\mathbf{V}_{HL} = (C_3)^{1/2} (\cos \Phi_s \cos \Theta_s, \cos \Phi_s \sin \Theta_s, \sin \Phi_s) \quad (18)$$

As stated above, the differential corrections are calculated by a numerical differencing method which uses

quantities obtained from the conic trajectory. The basic idea is to compute a varied or perturbed trajectory and then difference it with the reference case. Let primed quantities denote variables on the perturbed trajectory. A small variation $\Delta \mathbf{V}_{hL}$ in the hyperbolic-excess velocity vector is equivalent to a small variation $\Delta \mathbf{V}_L$ in the launch heliocentric velocity vector. The launch heliocentric velocity on the perturbed trajectory is, then,

$$\mathbf{V}'_L = \mathbf{V}_L + \Delta \mathbf{V}_{hL} \quad (19)$$

where

$$\begin{aligned} \Delta \mathbf{V}_{hL} = & (C_3)^{1/2} \Delta \Phi_s [-\sin \Phi_s \cos \Theta_s, -\sin \Phi_s \sin \Theta_s, \cos \Phi_s] , \\ & (C_3)^{1/2} \Delta \Theta_s [-\cos \Phi_s \sin \Theta_s, \cos \Phi_s \cos \Theta_s, 0] , \\ & \frac{-\Delta C_3}{2(C_3)^{1/2}} [\cos \Phi_s \cos \Theta_s, \cos \Phi_s \sin \Theta_s, \sin \Phi_s] \end{aligned}$$

where $\Delta \Phi_s, \Delta \Theta_s$ are small angular variations (0.2 deg), and the energy variation is $\Delta C_3 = 0.005 C_3$.

The semimajor axis a' is obtained from

$$a' = \frac{R_L}{2 - \frac{V_L'^2 R_L}{GM_s}} \quad (20)$$

The radial rate \dot{R}_L' is

$$\dot{R}_L' = \frac{\mathbf{V}_L' \cdot \mathbf{R}_L}{R_L} \quad (21)$$

The semilatus rectum p' and eccentricity e' are

$$p' = \frac{R_L^2 (V_L'^2 - \dot{R}_L'^2)}{GM_s} \quad (22)$$

$$e' = \left(1 - \frac{p'}{a'}\right)^{1/2} \quad (23)$$

The eccentric anomaly at launch E'_L is

$$\begin{aligned} \sin E'_L &= \frac{R_L \dot{R}_L'}{e' (a' GM_s)^{1/2}} \\ \cos E'_L &= \frac{1}{e'} \left(1 - \frac{R_L}{a'}\right) \end{aligned} \quad (24)$$

The mean anomaly at launch M'_L is obtained from

$$M'_L = E'_L - e' \sin E'_L \quad (25)$$

The mean orbital rate n' is

$$n' = \frac{(GM_s)^{1/2}}{a'^{3/2}} \quad (26)$$

The mean anomaly at the target M'_p is

$$M'_p = n' T_F + M'_L \quad (27)$$

The eccentric anomaly at the target E'_p is obtained from the expansion

$$\begin{aligned} E'_p = E_p + & \left(\frac{1}{1 - e' \cos E_p} \right) \Delta M - \frac{1}{2} \left[\frac{e' \sin E_p}{(1 - e' \cos E_p)^3} \right] \Delta M^2 \\ & + \frac{1}{6} \left[\frac{3 e' \sin E_p^2 - (1 - e' \cos E_p) (e' \cos E_p)}{(1 - e' \cos E_p)^5} \right] \Delta M^3 \end{aligned} \quad (28)$$

if

$$\cos E_p \geq 0$$

or

$$E'_p = E_p + \frac{e \cos E_p - 1 + \sqrt{(e \cos E_p - 1)^2 + (2e \sin E_p) \Delta M}}{e \sin E_p} \quad (29)$$

if

$$\cos E_p < 0$$

where

$$\Delta M = M'_p - (E_p - e' \sin E_p)$$

The true anomalies at launch and the target v'_L and v'_p are found from

$$\cos v'_L = \frac{p' - R_L}{e' R_L} \quad (30)$$

$$0 < v'_L < \pi \quad \text{if } \dot{R}_L' \text{ is positive}$$

$$\pi < v'_L < 2\pi \quad \text{if } \dot{R}_L' \text{ is negative}$$

$$\cos v'_p = \frac{\cos E'_p - e'}{1 - e' \cos E'_p} \quad (31)$$

$$\sin v'_p = \frac{(1 - e'^2)^{1/2} \sin E'_p}{1 - e' \cos E'_p}$$

The heliocentric central angle Ψ' is

$$\Psi' = v'_p - v'_L \quad (32)$$

The angular momentum \mathbf{h}' is

$$\mathbf{h}' = \mathbf{R}_L \times \mathbf{V}'_L \quad (33)$$

The heliocentric position vector at the target is

$$\mathbf{R}'_p = R'_p \left(\frac{\mathbf{R}_L}{R_L} \cos \Psi' + \frac{\mathbf{h}' \times \mathbf{R}_L}{h' R_L} \sin \Psi' \right) \quad (34)$$

where

$$R'_p = a' (1 - e' \cos E'_p) \quad (35)$$

A vector in the direction of perihelion with magnitude e' is

$$\boldsymbol{\epsilon}' = \frac{\mathbf{V}'_L \times \mathbf{h}'}{GM_s} - \frac{\mathbf{R}_L}{R_L} \quad (36)$$

The heliocentric velocity at the target is

$$\mathbf{V}'_p = \frac{\mathbf{h}'}{p'} \times \left(\frac{\mathbf{R}'_p}{R'_p} + \boldsymbol{\epsilon}' \right) \quad (37)$$

The hyperbolic-excess velocity at the target is

$$\mathbf{V}'_{hp} = \mathbf{V}'_p - \mathbf{V}_2 \quad (38)$$

The difference between the heliocentric position vectors on the perturbed and reference trajectories is

$$\Delta \mathbf{R}'_p = \mathbf{R}'_p - \mathbf{R}_p \quad (39)$$

The impact parameter \mathbf{B} is

$$\mathbf{B} = - \frac{(\Delta \mathbf{R}'_p \cdot \mathbf{V}'_{hp}) \mathbf{V}'_{hp}}{V'^2_{hp}} + \Delta \mathbf{R}'_p$$

The flight time error is

$$\Delta T_F = \frac{\Delta \mathbf{R}'_p \cdot \mathbf{V}'_{hp}}{V'^2_{hp}} \quad (40)$$

The partial derivatives are formed by dividing $\Delta \theta_s$, $\Delta \Phi_s$, and ΔC_3 into the miss components $\mathbf{B} \cdot \mathbf{T}$, $\mathbf{B} \cdot \mathbf{R}$, and flight time error ΔT_F . In addition to the component partials, the quantity $\partial B / \partial Q_i$ is defined by

$$\frac{\partial B}{\partial Q_i} = \left[\left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial Q_i} \right)^2 + \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial Q_i} \right)^2 \right]^{1/2} \quad (41)$$

The three partials, $\partial B / \partial \theta_s$, $\partial B / \partial \Phi_s$, $\partial B / \partial C_3$, are important measures of the error sensitivity of a trajectory.

The effect of uncertainty in the knowledge of the astronomical unit-to-kilometer conversion factor on target miss and flight time may be determined by the following formulae,

$$\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial au} = \frac{-2C_3}{au} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \quad (42)$$

$$\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial au} = \frac{-2C_3}{au} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3}$$

from whence

$$\frac{\partial B}{\partial au} = \frac{2C_3}{au} \frac{\partial B}{\partial C_3} \quad (43)$$

and

$$\frac{\partial T_F}{\partial au} = \frac{-2C_3}{au} \frac{\partial T_F}{\partial C_3} \quad (44)$$

where au is the astronomical unit-to-kilometer conversion factor.

The effect of solar radiation pressure acting on the probe may also be evaluated as follows: In Eq. (19) let $\Delta \mathbf{V}_{hL} = 0$, but in Eq. (20), (22), (24), (26), (36), vary GM_s by adding an increment ΔGM_s . This procedure gives rise to a varied trajectory from which the impact parameter \mathbf{B} and flight time error ΔT_F may be obtained. The partials $\partial B / \partial GM_s$ and $\partial T_F / \partial GM_s$ may then be calculated. Since the acceleration caused by solar radiation pressure acts opposite to the gravitational attraction of the Sun, radiation pressure has the effect of decreasing the Sun's gravitational attraction, or decreasing GM_s . A decrease, $\Delta GM_s = -2.4 \times 10^6 \text{ km}^3/\text{sec}^2$ corresponds to the solar radiation pressure acting on a 300-kg spacecraft having a perfectly reflecting area of 3.6 square meters. Thus the miss, always being a positive number, is obtained by $\Delta B_{sp} = 2.4 \times 10^6 \partial B / \partial GM_s$, and the corresponding flight time error is $\Delta T_{Fsp} = -2.4 \times 10^6 \partial T_F / \partial GM_s$, which is sign sensitive.

D. Mid-Course Execution Accuracy

The effect of mid-course execution errors on target accuracy can be rather simply described if it is assumed that the guidance maneuver is made on the asymptote of the escape hyperbola and that the velocity errors are spherically distributed (that is, the three-dimensional statistical distribution of velocity errors is composed of three orthogonal, independent velocity errors, each with the same variance). The mapping of these errors to the target (Fig. 7) results in a three-dimensional ellipsoid of position errors, which is the "one-sigma ellipsoid." The semiaxes are the respective standard deviations of the position errors. As pointed out above, this ellipsoid can be thought of as the locus of target errors that results from a unit velocity error at the mid-course point tracing out a sphere.

Let the differential corrections discussed above be expressed in matrix form as

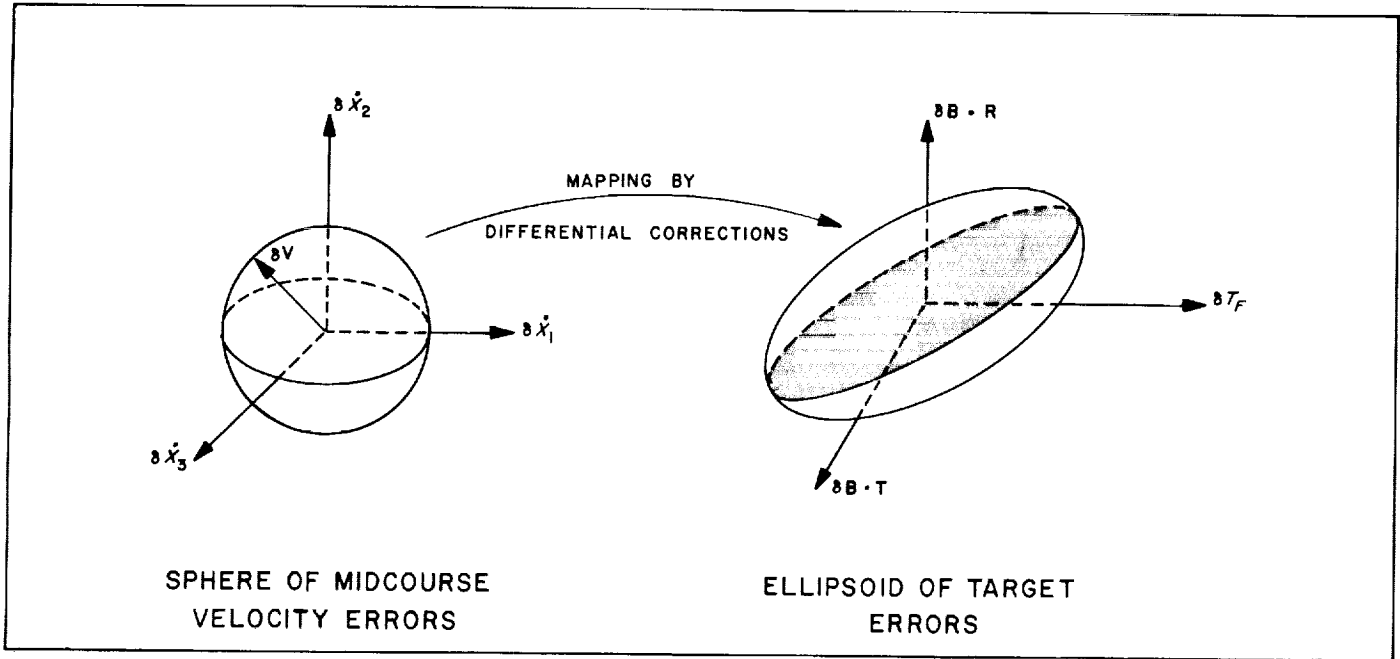


Fig. 7. The mapping of mid-course execution error

$$K = \begin{bmatrix} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \Phi_s} & \frac{\partial T_F}{\partial \Theta_s} & \frac{\partial T_F}{\partial C_3} \end{bmatrix} \quad (45)$$

Now define a Cartesian coordinate system X_1, X_2, X_3 such that

$$\left. \begin{aligned} \delta \dot{X}_1 &= V_{hL} \delta \Phi_s \\ \delta \dot{X}_2 &= -(V_{hL} \cos \Phi_s) \delta \Theta_s \\ \delta \dot{X}_3 &= \delta V_{hL} = \frac{\delta C_3}{2V_{hL}} \end{aligned} \right\} \quad (46)$$

Then a new matrix F can be formed,

$$F = \begin{bmatrix} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_1} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_2} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_1} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_2} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} & \frac{\partial T_F}{\partial \dot{X}_2} & \frac{\partial T_F}{\partial \dot{X}_3} \end{bmatrix} \quad (47)$$

where

$$\left. \begin{aligned} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s} \\ \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL} \cos \Phi_s} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s} \\ \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \dot{X}_3} &= 2V_{hL} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_1} &= \frac{1}{V_{hL}} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_2} &= \frac{-1}{V_{hL} \cos \Phi_s} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \dot{X}_3} &= 2V_{hL} \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \dot{X}_1} &= \frac{1}{V_{hL}} \frac{\partial T_F}{\partial \Phi_s} \\ \frac{\partial T_F}{\partial \dot{X}_2} &= \frac{-1}{V_{hL} \cos \Phi_s} \frac{\partial T_F}{\partial \Theta_s} \\ \frac{\partial T_F}{\partial \dot{X}_3} &= 2V_{hL} \frac{\partial T_F}{\partial C_3} \end{aligned} \right\} \quad (48)$$

Let the spherical distribution of midcourse velocity errors be described in the X_1, X_2, X_3 system as

$$\delta \dot{X}_1^2 + \delta \dot{X}_2^2 + \delta \dot{X}_3^2 = \sigma_v^2 \quad (49)$$

where σ_v will be taken equal to 0.1 meters/sec. The resultant one-sigma ellipsoid of target errors is described by the quadratic form,

$$\delta \mathbf{M} \Lambda^{-1} \delta \mathbf{M}^T = 1 \quad (50)$$

where

$$\Lambda = \sigma_v^2 \mathbf{F} \mathbf{F}^T = \begin{bmatrix} \lambda_{11} & \lambda_{12} & \lambda_{13} \\ & \lambda_{22} & \lambda_{23} \\ \text{symmetric} & & \lambda_{33} \end{bmatrix} \quad (51)$$

and

$$\delta \mathbf{M} = (\delta \mathbf{B} \cdot \mathbf{T}, \delta \mathbf{B} \cdot \mathbf{R}, \delta T_F)$$

The elements of the Λ matrix are:

$$\begin{aligned} \lambda_{11} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} \right)^2 + \frac{1}{C_3 \cos^2 \Phi_S} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} \right)^2 \right. \\ &\quad \left. + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \right)^2 \right] \\ \lambda_{12} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} \right) \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} \right) + \frac{1}{C_3 \cos^2 \Phi_S} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} \right) \right. \\ &\quad \left. \times \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} \right) + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \right) \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \right) \right] \\ \lambda_{13} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} \right) \left(\frac{\partial T_F}{\partial \Phi_S} \right) + \frac{1}{C_3 \cos^2 \Phi_S} \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} \right) \left(\frac{\partial T_F}{\partial \Theta_S} \right) \right. \\ &\quad \left. + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \right) \left(\frac{\partial T_F}{\partial C_3} \right) \right] \\ \lambda_{22} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} \right)^2 + \frac{1}{C_3 \cos^2 \Phi_S} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} \right)^2 \right. \\ &\quad \left. + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \right)^2 \right] \\ \lambda_{23} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} \right) \left(\frac{\partial T_F}{\partial \Phi_S} \right) + \frac{1}{C_3 \cos^2 \Phi_S} \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} \right) \left(\frac{\partial T_F}{\partial \Theta_S} \right) \right. \\ &\quad \left. + 4C_3 \left(\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \right) \left(\frac{\partial T_F}{\partial C_3} \right) \right] \\ \lambda_{33} &= \sigma_v^2 \left[\frac{1}{C_3} \left(\frac{\partial T_F}{\partial \Phi_S} \right)^2 + \frac{1}{C_3 \cos^2 \Phi_S} \left(\frac{\partial T_F}{\partial \Theta_S} \right)^2 + 4C_3 \left(\frac{\partial T_F}{\partial C_3} \right)^2 \right] \end{aligned} \quad (52)$$

The quantities in the Λ matrix can be interpreted as standard deviations (sigmas) and correlation coefficients (rhos) according to

$$\left. \begin{aligned} \sigma_T &= (\lambda_{11})^{1/2} \\ \sigma_R &= (\lambda_{22})^{1/2} \\ \sigma_F &= (\lambda_{33})^{1/2} \\ \rho_{RT} &= \frac{\lambda_{12}}{(\lambda_{11} \lambda_{22})^{1/2}} \\ \rho_{TF} &= \frac{\lambda_{13}}{(\lambda_{11} \lambda_{33})^{1/2}} \\ \rho_{RF} &= \frac{\lambda_{23}}{(\lambda_{22} \lambda_{33})^{1/2}} \end{aligned} \right\} \quad (53)$$

Then the Λ matrix becomes

$$\Lambda = \begin{bmatrix} \sigma_T^2 & \rho_{RT} \sigma_R \sigma_T & \rho_{TF} \sigma_F \sigma_T \\ & \sigma_R^2 & \rho_{RF} \sigma_R \sigma_F \\ \text{symmetric} & & \sigma_F^2 \end{bmatrix} \quad (54)$$

It is often of interest when describing only miss components to consider

$$\sigma_B = (\sigma_R^2 + \sigma_T^2)^{1/2} \quad (55)$$

and to diagonalize the upper 2×2 portion of the Λ (the miss component elements) to get

$$\Lambda^* = \mathbf{L} \Lambda \mathbf{L}^T = \begin{bmatrix} \sigma_1^2 & 0 & \rho_{13} \sigma_1 \sigma_3 \\ & \sigma_2^2 & \rho_{23} \sigma_2 \sigma_3 \\ \text{symmetric} & & \sigma_3^2 \end{bmatrix} \quad (56)$$

where the matrix \mathbf{L} is given by

$$L = \begin{bmatrix} \cos \theta & \sin \theta & 0 \\ -\sin \theta & \cos \theta & 0 \\ 0 & 0 & 1 \end{bmatrix} \quad (57)$$

The angle θ is positive when turned counterclockwise from the T axis, and has been chosen such that $\sigma_1 \geq \sigma_2$. This is accomplished by

$$\theta = \frac{1}{2} \tan^{-1} \left[\frac{2\rho_{RT}}{\left(\frac{\sigma_T}{\sigma_R}\right) - \left(\frac{\sigma_R}{\sigma_T}\right)} \right] \quad (58)$$

where θ is in first quadrant if ρ_{RT} is positive and θ is in second quadrant if ρ_{RT} is negative. Notice that $\sigma_3 = \sigma_R$. The two-dimensional error ellipse described by σ_1 , σ_2 , and θ is the projection of all points of the three-dimensional ellipsoid of position errors (discussed in Section IIE) onto the T-R plane, as shown in Fig. 8.

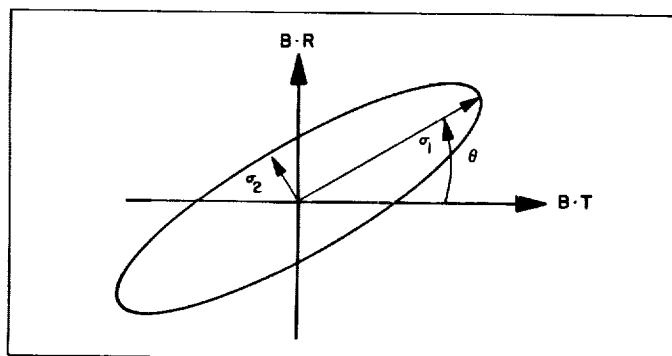


Fig. 8. Projection of three-dimensional error ellipsoid on the T-R plane

E. Orbit Determination Accuracy

In this section the analytic model used for describing orbit determination accuracy (tracking error) for interplanetary trajectories is discussed, and the factors upon which the tracking error depends are reviewed. The dominant error sources are defined for the easterly launchings from Cape Canaveral using tracking coverage supplied by NASA's Deep Space Instrumentation Facility (DSIF). Probable generalization to other situations is suggested. Finally, the method of describing target errors is presented along with all formulae relating the tracking errors to the target error parameters chosen.

I. Method of Describing Orbit Determination Accuracy

As discussed in Section IID, the uncertainties in our knowledge of an interplanetary trajectory are well described in terms of the direction and magnitude of the geocentric hyperbolic-excess velocity vector, V_{hL} . Figure 9 defines the right-handed Cartesian coordinate system we have adopted for describing uncertainties in V_{hL} . The X_3 axis is along V_{hL} ; the X_1 axis is in the direction of a positive differential change in asymptote declination Φ_S ; and the X_2 axis completes the system.

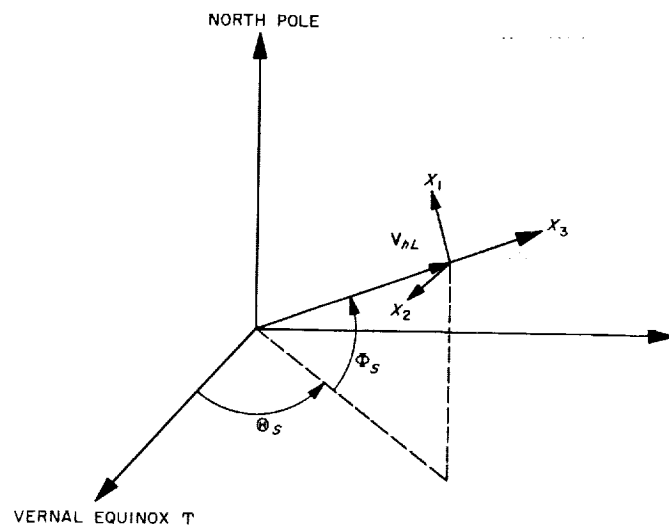


Fig. 9. Orientation of the X_i Cartesian coordinate system to describe uncertainties in the hyperbolic-excess velocity vector V_{hL}

Let $\dot{\mathbf{X}}$ represent the vector of velocity errors in the X_i system just described; $\dot{\mathbf{X}} = (\delta\dot{X}_1, \delta\dot{X}_2, \delta\dot{X}_3)^T$, where T indicates the transpose. The average of any function of $\dot{\mathbf{X}}$, $f(\dot{\mathbf{X}})$, over an ensemble of randomly generated tracking runs may assist in describing our statistical knowledge of $\dot{\mathbf{X}}$ based on tracking noise, station location, and physical constant uncertainties. The ensemble average is usually written $Ef(\dot{\mathbf{X}})$ or as $f(\dot{\mathbf{X}})$. When $\dot{\mathbf{X}}$ has a Gaussian (normal) probability density function, the distribution can be described completely by specifying $E\dot{\mathbf{X}}$ and $E[(\dot{\mathbf{X}} - \dot{\mathbf{X}})(\dot{\mathbf{X}} - \dot{\mathbf{X}})^T]$, the mean and covariance of $\dot{\mathbf{X}}$, respectively.

When all parameters influencing our knowledge of $\dot{\mathbf{X}}$ have been considered, $E\dot{\mathbf{X}}$ should be zero and then the description of our uncertainties in $\dot{\mathbf{X}}$ can be adequately given by Covar $\dot{\mathbf{X}}$, defined above. For convenience, the symbol $\Lambda_{\dot{\mathbf{X}}}$, for Covar $\dot{\mathbf{X}}$, is introduced.

$$\Lambda_{\dot{\mathbf{X}}} = \text{Covar } \dot{\mathbf{X}} = E \left[(\dot{\mathbf{X}} - \dot{\mathbf{X}}) (\dot{\mathbf{X}} - \dot{\mathbf{X}})^T \right] \quad (59)$$

Note that

$$\Lambda_{\dot{\mathbf{X}}} = \begin{pmatrix} \delta\dot{\mathbf{X}}_1\delta\dot{\mathbf{X}}_1 & \delta\dot{\mathbf{X}}_1\delta\dot{\mathbf{X}}_2 & \delta\dot{\mathbf{X}}_1\delta\dot{\mathbf{X}}_3 \\ \delta\dot{\mathbf{X}}_2\delta\dot{\mathbf{X}}_1 & \delta\dot{\mathbf{X}}_2\delta\dot{\mathbf{X}}_2 & \delta\dot{\mathbf{X}}_2\delta\dot{\mathbf{X}}_3 \\ \delta\dot{\mathbf{X}}_3\delta\dot{\mathbf{X}}_1 & \delta\dot{\mathbf{X}}_3\delta\dot{\mathbf{X}}_2 & \delta\dot{\mathbf{X}}_3\delta\dot{\mathbf{X}}_3 \end{pmatrix} \quad (60)$$

is a 3×3 real symmetric matrix. The diagonal terms are the variances of the three components, and the off-diagonal terms measure the correlation between the three components.

Before describing how $\Lambda_{\dot{\mathbf{X}}}$ has been "mapped" into target error uncertainties, a discussion is given of the dependence of $\Lambda_{\dot{\mathbf{X}}}$ upon the relevant factors describing near-Earth tracking as well as the typical errors assumed in preparing the estimates given in this report.

2. Accuracy of Near-Earth Tracking

By expressing the accuracy of near-Earth tracking in terms of $\dot{\mathbf{X}}$ and its associated covariance $\Lambda_{\dot{\mathbf{X}}}$, the dependence upon almost all trajectory parameters has been eliminated. The remaining relevant trajectory parameters are listed in Table 1.

Table 1. Trajectory parameters influencing tracking accuracy

1. Launch site	
2. Launch azimuth Σ_L	Depends on launch time.
3. Injection region	Depends on time in parking orbit; short or long coast less than 1 revolution is current practice.
4. Declination of \mathbf{V}_{HL} , Φ_N	Depends on target position at arrival date and injection energy, C_3 .
5. Magnitude of $\mathbf{V}_{HL} = \mathbf{V}_{HL} = (C_3)^{1/2}$	

Note the limited number of trajectory parameters on which $\Lambda_{\dot{\mathbf{X}}}$ depends. Table 2 summarizes the key tracking station parameters which influence accuracy in the geocentric tracking phase.

The first three factors listed in Table 2 define the tracking configuration, whereas the last three are station performance factors. Usually, tracking accuracy studies are carried out with the tracking configuration relatively fixed, and the influence of the station performance factors are determined.

The final source of tracking error is uncertainty in physical constants. The influence of GM-Earth errors is somewhat smaller than the above-mentioned errors and should be reduced to negligible contribution in the next two years. Sections IIC and IIIC describe how the uncertainty in the astronomical unit affects the target error; this error

Table 2. Tracking station parameters influencing tracking accuracy

1. Station locations	A spread of latitudes is very desirable.
2. Total tracking time	
3. Tracking data types	Range R , range rate \dot{R} , and angles are most commonly taken.
4. Delay in acquiring first data	Delay is measured from the injection region as well as station acquisition delays.
5. Tracking data accuracies	Expressed in terms of equivalent uncorrelated noise at a given sampling rate.
6. Uncertainty in tracking station locations	Important when high data accuracies are available. Longitude errors usually are most important.

can be important for very long flights, but should also be reduced to a negligible contribution in the next two years. Errors in the target's mass cause minor variations in flight time T_F and negligible effect on \mathbf{B} . The last important target error source currently recognized is the uncertainty in the effect of the standard solar radiation pressure on spacecraft trajectory. The source of uncertainty is that effective reflecting area (largely solar panels) is not perfectly known. Techniques for the accurate measurement of this quantity are currently under development. Our studies show that unless this error is held below 5% it will be the dominant error source on many of our flights. Sections IIC and IIIC describe the calculation of the standard solar radiation pressure on a typical spacecraft deriving electrical power from the Sun.

The tracking accuracies reported here are representative of those available from tracking with the DSIF stations in South Africa, Australia, and the United States. Launch azimuths between 90 and 114 deg east of north were considered. Data accuracies of 0.02 m/sec in \dot{R} and 0.05 deg in angle sampled every 10 minutes were assumed; no range measurements were assumed. Station location errors were assumed to be uncorrelated with standard deviations of 0.001 deg in latitude, 0.0005 deg in longitude, and 30 meters in radius. Each station was allowed 10 minutes to acquire the spacecraft transponder, and tracking was simulated in the first 24 hours so that at least one pass was available to each station. The transfer of transmitting assignment from one station to another (simultaneous transmission was not allowed) followed a pattern which has been found to be near-optimum.

The $\Lambda_{\dot{\mathbf{X}}}$ matrix used in these calculations was assumed to be independent of the trajectory parameters listed in Table 1. This approximation is good for the range of energies and asymptotic declinations considered to be

most feasible. In the future these approximations will be refined as necessary. The $\Delta\dot{\mathbf{x}}$ used for orbit determination accuracy in this report is given in Section III E. The target accuracies calculated here are typical for any reasonable multistation tracking configuration, with the data types and accuracies corresponding to this conservative representation of DSIF capabilities.

3. Calculation of Target Errors

The representation of tracking accuracy in the geocentric phase in terms of $\Delta\dot{\mathbf{x}}$, the covariance of the \mathbf{V}_{hL} in a particular rectangular coordinate system, was developed earlier in this section. In order to express the effect of these uncertainties in \mathbf{V}_{hL} in terms of target error, two steps must be performed. First, a set of coordinates \mathbf{M}_1 at the target planet for expressing the errors (\mathbf{M}_1 cannot exceed 3 dimensions) must be chosen. (A convenient set with desirable linearity properties is the **T-R-S** system defined previously.) The matrix U_1 , which maps $\dot{\mathbf{x}}$ to the desired \mathbf{M}_1 , is then determined.

$$\mathbf{M}_1 = U_1 \dot{\mathbf{x}} = \begin{pmatrix} \delta\mathbf{B} \cdot \mathbf{T} \\ \delta\mathbf{B} \cdot \mathbf{R} \\ \delta S \end{pmatrix} \quad (61)$$

The covariance of \mathbf{M}_1 is given by

$$\text{Covar}[\mathbf{M}_1] = \overline{\mathbf{M}_1 \mathbf{M}_1^T} = U_1 \Delta\dot{\mathbf{x}} U_1^T = \Lambda_{\mathbf{M}_1} \quad (62)$$

The determination of U_1 for the coordinates chosen follows the lines of Section IID. It is presumed that the K -matrix is given, where

$$K = \begin{bmatrix} \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_S} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_S} & \frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3} \\ \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_S} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_S} & \frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3} \\ \frac{\partial T_F}{\partial \Phi_S} & \frac{\partial T_F}{\partial \Theta_S} & \frac{\partial T_F}{\partial C_3} \end{bmatrix} \quad (45)$$

By postmultiplying K by

$$A = \begin{bmatrix} \frac{1}{V_{hL}} & 0 & 0 \\ 0 & \frac{-1}{V_{hL} \cos \Phi_S} & 0 \\ 0 & 0 & 2V_{hL} \end{bmatrix} \quad (63)$$

the F matrix is obtained.

$$F = KA \quad (47)$$

The F matrix must now be adjusted to transform into the **T-R-S** coordinates used for \mathbf{M}_1 . This transformation B is simply

$$B = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & -V_{hp} \end{bmatrix} \quad (64)$$

since $\delta S = -V_{hp} \delta T_L$. Thus our U_1 matrix is given by

$$U_1 = B(KA) = BF \quad (65)$$

Now the mapping given in Eq. (62) to obtain $\Lambda_{\mathbf{M}_1}$ is applied. Since all of the coordinates of \mathbf{M}_1 have the same dimensions (length squared), the one-sigma ellipsoid described by the quadratic form

$$\delta \mathbf{M}_1 \Lambda_{\mathbf{M}_1}^{-1} \delta \mathbf{M}_1^T = 1 \quad (66)$$

has physical significance. The three principal axes of this ellipsoid are the square roots of the 3-eigenvalues of the $\Lambda_{\mathbf{M}_1}$ matrix. The formulas used are standard and are not reproduced here. The projection of the three-dimensional ellipsoid on to the **T-R** plane is an ellipse. Its major and minor semiaxes and orientation of the major axis are calculated by the same procedure used in Section IID. It is often convenient to write $\Lambda_{\mathbf{M}_1}$ in an alternate form:

$$\Lambda_{\mathbf{M}_1} = \begin{bmatrix} \sigma_T^2 & \rho_{RT} \sigma_T \sigma_R & \rho_{TS} \sigma_T \sigma_S \\ \rho_{RT} \sigma_R \sigma_T & \sigma_R^2 & \rho_{RS} \sigma_R \sigma_S \\ \rho_{TS} \sigma_S \sigma_T & \rho_{RS} \sigma_S \sigma_R & \sigma_S^2 \end{bmatrix} \quad (67)$$

It can be seen that $\Lambda_{\mathbf{M}_1}$ is completely described by σ_T , σ_R , σ_S , ρ_{TS} , ρ_{RS} , ρ_{TR} , because of its symmetry.

III. EXPLANATION OF TRAJECTORY TABLES

Tabular listings of pertinent quantities of the heliocentric and planetocentric trajectories, differential corrections, guidance, and orbit determination parameters are given at 1-day launch date intervals and 2-day flight time intervals over the selected launch period. The launch period is selected to encompass the minimum energy transfer dates obtained from Ref. 7 and 8. A summary of the characteristics of these trajectories is given in Ref. 7.

Each trajectory begins with a header giving launch date, flight time (in days), and arrival date. All the heliocentric transfer trajectories are calculated assuming launch into the heliocentric orbit at 0 hours of the launch date and arrival at 0 hours of the arrival date. Later, however, when the launch-planet ascent trajectories are computed, the actual launch times during the launch day for each launch azimuth are given.

Each page lists four trajectories, each of which is divided into five basic print groups: HELIOCENTRIC CONIC, PLANETOCENTRIC CONIC, DIFFERENTIAL CORRECTIONS, MID-COURSE EXECUTION ACCURACY, and ORBIT DETERMINATION ACCURACY. Each quantity is assigned an identifying alphabetic symbol of no more than three letters. The definitions of the symbols and quantities they represent are given below. All pertinent quantities are referenced to the mean equinox and equator, or ecliptic, of *launch* date.

A. Heliocentric Conic Group

The HELIOCENTRIC CONIC group gives the characteristics of the heliocentric transfer ellipse, such as the position and velocity vectors at launch and arrival, some orbital elements, and other quantities of engineering interest. The printout array is as follows:

HELIOCENTRIC CONIC	DISTANCE
RL LAL LOL VL GAL AZL HCA SMA ECC INC VI	
RP LAP LOP VP GAP AZP TAL TAP RCA APO V2	
RC GL GP ZAL ZAP ETS ZAE ETE ZAC ETC CLP	

After the words HELIOCENTRIC CONIC, the heliocentric arc DISTANCE traveled by the spacecraft from launch to arrival is printed. The quantities are defined as follows (all angles are in deg; distances are in millions of km; speeds are in km/sec):

Line 1	
$RL, R_L = R_L $	the heliocentric radius of the launch planet at 0 hours of the launch date.
LAL, β_L	the celestial latitude of the launch planet at 0 hours of the launch date.
LOL, λ_L	the celestial longitude of the launch planet at 0 hours of the launch date.
$VL, V_L = V_L $	the heliocentric speed of the probe at 0 hours of the launch date.
GAL, Γ_L	the path angle of the probe at 0 hours of the launch date, i.e., the complement of the angle between the position and velocity vectors, R_L and V_L , defined by $\sin \Gamma_L = \frac{R_L \cdot V_L}{R_L V_L} \quad -\frac{\pi}{2} \leq \Gamma_L \leq \frac{\pi}{2}$
AZL, Σ_L	the azimuth angle of the probe at 0 hours of the launch date, i.e., the angle, measured in a plane perpendicular to the radius vector R_L , between the projection of the ecliptic north and the projection of the velocity vector V_L on the plane perpendicular to R_L , defined by $\cos \Sigma_L = \frac{V_L \cdot \Psi^1}{V_L \cos \Gamma_L} \quad 0 \leq \Sigma_L \leq 2\pi$ $\sin \Sigma_L = \frac{(R_L \times V_L) \cdot \Psi^1}{ R_L \times V_L }$ where $\Psi^1 = (K' - R_L^1 \sin \beta_L) \sec \beta_L$, where the superscript 1 denotes a unit vector.
HCA, Ψ	the heliocentric central angle, or angle between the position vector R_L , of the launch planet at 0 hours of the launch date and the position vector R_p , of the target planet at 0 hours of the arrival date. This angle is defined by Eq. (3) and (4) and illustrated in Fig. 1.
SMA, a	the semimajor axis of the heliocentric transfer ellipse.

ECC, e	the eccentricity of the heliocentric transfer ellipse.	GL, γ_L	the angle between the launch hyperbolic-excess velocity vector \mathbf{V}_{hL} and its projection on the orbital plane of the launch planet, defined by
INC, i	the inclination of the heliocentric transfer ellipse.		
VL, $V_1 = \mathbf{V}_1 $	the heliocentric speed of the launch planet at 0 hours of the launch date.		$\sin \gamma_L = \frac{\mathbf{W}_1 \cdot \mathbf{V}_{hL}}{V_{hL}} \quad -\frac{\pi}{2} \leq \gamma_L \leq \frac{\pi}{2}$
Line 2			where \mathbf{W}_1 is a unit normal to the launch planet's orbital plane. This angle is useful in describing the direction in which the probe leaves the launch planet.
RP, $R_p = \mathbf{R}_p $	the heliocentric radius of the target planet at 0 hours of the arrival date.		
LAP, β_p	the celestial latitude of the target planet at 0 hours of the arrival date.		
LOP, λ_p	the celestial longitude of the target planet at 0 hours of the arrival date.	GP, γ_p	the angle between the incoming arrival hyperbolic-excess velocity vector \mathbf{V}_{hp} , and its projection on the target planet's orbital plane, defined by
VP, $V_p = \mathbf{V}_p $	the heliocentric speed of the probe at 0 hours of the arrival date.		$\sin \gamma_p = \frac{\mathbf{W}_2 \cdot \mathbf{V}_{hp}}{V_{hp}} \quad -\frac{\pi}{2} \leq \gamma_p \leq \frac{\pi}{2}$
GAP, Γ_p	the path angle of the probe at 0 hours of the arrival date, defined the same as Γ_L except that \mathbf{R}_p and \mathbf{V}_p are substituted for \mathbf{R}_L and \mathbf{V}_L .		where \mathbf{W}_2 is a unit normal to the target planet's orbital plane. This angle is useful in determining whether the probe is approaching from above or below the target planet. If γ_p is positive, the probe approaches from below—if negative, from above.
AZP, Σ_p	the azimuth angle of the probe at 0 hours of the arrival date, defined the same as Σ_L except that \mathbf{R}_p and \mathbf{V}_p are substituted for \mathbf{R}_L and \mathbf{V}_L .		
TAL, v_L	the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the launch date.	ZAL, ζ_L	the angle between the outgoing launch asymptote (or hyperbolic-excess velocity vector) and the launch <i>heliocentric</i> radius vector \mathbf{R}_L at launch time. This is the Sun-launch-planet-probe angle and is a good approximation to the launch-planet-probe-Sun angle as the probe leaves the launch planet. It is an important quantity in the design of attitude control systems which use the Sun and launch planet as optical references. The quantity ζ_L is defined as follows:
TAP, v_p	the true anomaly of the probe in the heliocentric transfer ellipse at 0 hours of the arrival date.		$\cos \zeta_L = \frac{\mathbf{V}_{hL} \cdot \mathbf{R}_L^1}{V_{hL}} \quad 0 \leq \zeta_L \leq \pi$
RCA, R_{cA}	the perihelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit perihelion.		
APO, R_A	the aphelion distance of the heliocentric transfer ellipse. This distance is printed even though the probe may not transit aphelion.		
V2, $V_2 = \mathbf{V}_2 $	the heliocentric speed of the target planet at 0 hours of the arrival date.		
Line 3			The next six quantities, all angles, have the same general definition. They are important in the design of the near-target trajectory and are used in determining the aiming point for interplanetary flyby trajectories. Consider the target-centered geometry of Fig. 10.
RC, R_c	the communication distance, or distance between the launch and target planets at 0 hours of the arrival date.		

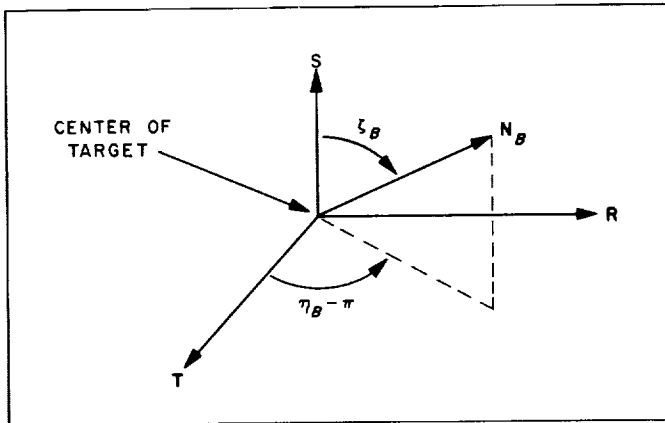


Fig. 10. Generalized geometry for aiming point angles

In this diagram, the reference coordinate system is the same target R, S, T system defined in Section IIC. A unit vector N_B (subscript B for body) is directed from the target center to another celestial body. The angular quantity ζ_B is the angle subtended at the target center between the incoming asymptote S and the target-celestial body line N_B . Thus

$$\cos \zeta_B = \mathbf{S} \cdot \mathbf{N}_B = \frac{\mathbf{V}_{hp} \cdot \mathbf{N}_B}{V_{hp}} \quad 0 \leq \zeta_B \leq \pi$$

since

$$\mathbf{S} = \frac{\mathbf{V}_{hp}}{V_{hp}}$$

The angle η_B is the supplement of the angle between the T direction and the projection of N_B on the R-T plane, defined by

$$\sin \eta_B = \frac{-\mathbf{R} \cdot \mathbf{N}_B}{\sin \zeta_B} \quad 0 \leq \eta_B \leq 2\pi$$

$$\cos \eta_B = \frac{-\mathbf{T} \cdot \mathbf{N}_B}{\sin \zeta_B}$$

These quantities are computed for three celestial bodies: the Sun (ζ_s and η_s), the Earth (ζ_E and η_E), and the star Canopus (ζ_c and η_c). Thus,

ZAP, ζ_s (or ζ_p) the Sun-target-probe angle. Actually, this angle should be symbolized ZAS, but, for historical reasons, is not. This angle is useful in that it indicates the direction of the probe's approach to

the target. If $\zeta_s < \pi/2$, the probe approaches from the target planet's dark side. If $\zeta_s > \pi/2$, it approaches from the light side.

ETS, η_s

defined as above.

ZAE, ζ_E

the Earth-target-probe angle. This angle is useful in locating the Earth as the probe approaches the target.

ETE, η_E

defined as above.

ZAC, ζ_c

the Canopus-target-probe angle.

ETC, η_c

defined as above.

CLP, σ_p

the angle between the projection of the incoming asymptote S on the target planet's orbital plane and the target-Sun line at arrival time, defined by

$$\cos \sigma_p = -\mathbf{R}_p^1 \cdot \mathbf{S}_{pr} \quad -\pi \leq \sigma_p \leq \pi$$

$$\sin \sigma_p = -\mathbf{S}_{pr} \cdot (\mathbf{W}_2 \times \mathbf{R}_p^1)$$

where \mathbf{S}_{pr} is the projection of S on the target's orbital plane given by

$$\mathbf{S}_{pr} = \frac{\mathbf{S} - \mathbf{W}_2 (\mathbf{S} \cdot \mathbf{W}_2)}{|\mathbf{S} - \mathbf{W}_2 (\mathbf{S} \cdot \mathbf{W}_2)|}$$

Recall that \mathbf{W}_2 is the unit normal vector to the target's orbital plane. This angle is illustrated in Fig. 11.

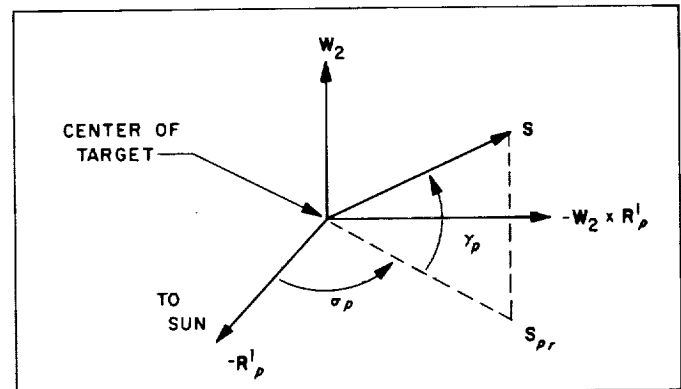


Fig. 11. Definition of σ_p and γ_p

B. Planetocentric Conic Group

The second group, PLANETOCENTRIC CONIC, gives the characteristics of primarily the launch-planet ascent trajectories, but also includes the hyperbolic-excess vector at the target. Injection conditions are given for three launch azimuths, assuming both short and long parking orbits. As explained in Ref. 6, there may be two launch times per day for each launch azimuth, resulting in a short and long parking orbit. The injection conditions for each set are given in geocentric space-fixed spherical coordinates and, by assuming a 100-nm parking orbit altitude and typical boost vehicle trajectory characteristics, the longitude of injection is calculated, along with the latitude and longitude of ignition of final burn out of the parking orbit.

A special case may arise when the declination of the outgoing asymptote of the escape hyperbola is greater than the launch site latitude (Cape Canaveral). In this case, owing to geometrical restrictions, it may not be possible to fire in a symmetrical band of azimuths about due east, as explained in Ref. 6. This band of restricted azimuths may eliminate part or all of the selected launch azimuths, 90, 100, and 110 deg. When this happens, only those trajectories with permissible azimuths are printed, in addition to the limiting azimuths, or the most northerly and southerly azimuths, that are possible.

The ascent trajectory profile is as shown in Fig. 12. Its characteristics are defined as follows:

- Φ_1 the arc subtended at Earth's center during ascent from launch into parking orbit.
- t_1 the time from launch to parking-orbit injection.
- Φ_2 the arc subtended at Earth's center during final burn out of the parking orbit, to injection.
- t_2 the time of final burn.
- $k_{\dot{\Phi}}$ the inverse parking orbital rate, equal to $1/\dot{\Phi}_c$.
- v_1 the true anomaly in the hyperbolic orbit at injection.
- R_p the perifocal distance of the escape hyperbola, taken equal to the Earth-centered radius of the parking orbit.

ϕ_L the longitude of the launch site.

θ_L the latitude of the launch site.

The values of these quantities for all trajectories contained herein are:

$$\Phi_1 = 17 \text{ deg}$$

$$t_1 = 500 \text{ sec}$$

$$\Phi_2 = 8 \text{ deg}$$

$$t_2 = 100 \text{ sec}$$

$$k_{\dot{\Phi}} = 14.689 \text{ sec/deg}$$

$$v_1 = 3.7 \text{ deg}$$

$$R_p = 6560 \text{ km}$$

$$\phi_L = 28.317 \text{ deg}$$

$$\theta_L = 279.457 \text{ deg}$$

An inherent assumption here is that these quantities are relatively invariant with injection energy. This is a reasonable assumption and will affect the injection coordinates only slightly.

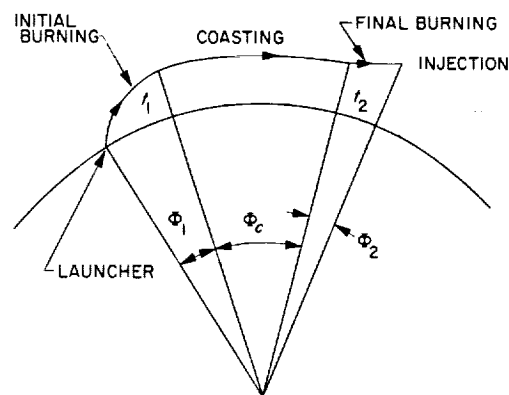


Fig. 12. Ascent trajectory profile

The print array for the PLANETOCENTRIC CONIC group is:

C3	VHL	DLA	RAL	RAD	VEL	PTH	VHP	DPA	RAP	ECC
LNCH AZMTH	LNCH TIME	L-I TIME	INJ LAT	INJ LONG	INJ RT ASC	INJ AZMTH	INJ TIME	PO CST TIM	INJ 2 LAT	INJ 2 LONG

The quantities are defined as follows (all angles are in deg; distances are in km; speeds are in km/sec, launch-injection (L-I) time and parking orbit coast time (PO CST TIM) are in sec; launch time and injection time are in hr, min, and sec, GMT):

Line 1

C3, C_3	the <i>vis viva</i> integral (Moulton), or twice the total energy per unit mass, expressed in km^2/sec^2 and defined by $C_3 = V_{hL}^2$.	L-I TIME, t_{LI}	the launch-to-injection time.
VHL, V_{hL}	the launch hyperbolic-excess speed.	INJ LAT, ϕ	the injection latitude (or declination Φ).
DLA, Φ_s	the declination of the outgoing asymptote of the escape hyperbola defined in Eq. (18).	INJ LONG, θ	the injection longitude, measured positive east of Greenwich, $0 \leq \theta \leq 2\pi$.
RAL, Θ_s	the right ascension of the outgoing asymptote of the escape hyperbola defined in Eq. (18).	INJ RT ASC, Θ	the injection right ascension.
RAD, $R = \mathbf{R} $	the launch-planet-centered injection radius.	INJ AZMTH, Σ	the injection azimuth, or angle between the projection of the velocity vector \mathbf{V} , on the local horizontal plane and the projection of true north on this plane, measured positive east of true north.
VEL, $V = \mathbf{V} $	the inertial injection speed.	INJ TIME, T_I	the injection time. The same comment applies to this quantity regarding launch date as applied to the launch time. However, both times must be consistent. For example, if launch time is on the previous day, injection time may fall on the launch date shown, or it may be on the following day.
PTH, Γ	the injection path angle defined by $\sin \Gamma = \frac{\mathbf{V} \cdot \mathbf{R}}{VR} \quad -\frac{\pi}{2} \leq \Gamma \leq \frac{\pi}{2}$	PO CST TIM, t_c	the coast time in the parking orbit, in sec.
VHP, V_{hp}	the hyperbolic-excess speed at the target.	INJ 2 LAT, ϕ_2	the latitude of the start of final burn out of the parking orbit.
DPA, Φ_{sp}	the declination of the incoming asymptote at the target. The reference coordinate system here is vernal equinox, Earth equatorial, mean of <i>launch</i> date	INJ 2 LONG, θ_2	the longitude of the start of final burn out of the parking orbit, $0 \leq \theta_2 \leq 2\pi$.
RAP, Θ_{sp}	the right ascension of the incoming asymptote at the target. Same reference coordinates as for Φ_{sp} .		
ECC, e	the eccentricity of the escape hyperbola.		

Line 2

LNCH AZMTH, Σ_L	the launch azimuth measured in a plane tangent to the surface of the launch planet at the launch site, positive east of true north.
LNCH TIME, T_L	the launch time. For the range of launch azimuths given herein, launch time may cross 0 hours,

or midnight. In this case, the launch date may be advanced to the following day for times after midnight, or it may be retarded to the previous day for times before midnight, whichever the reader wishes.

The quantities T_I , R , Φ , Θ , V , Γ , Σ form a consistent set of injection conditions; i.e., they are the time and the space-fixed spherical coordinates which can be used to initialize an integrating trajectory program.

C. Differential Corrections Group

The DIFFERENTIAL CORRECTIONS group is comprised of sixteen error coefficients relating variations in

injection energy C_3 , declination Φ_s , and right ascension Θ_s , of the outgoing asymptote of the escape hyperbola, the astronomical unit, and solar radiation pressure to variations in the miss components $\mathbf{B} \cdot \mathbf{T}$, $\mathbf{B} \cdot \mathbf{R}$, and the flight time. These coefficients are very useful in gaging the error sensitivity of an interplanetary trajectory. The printout array for this group is as follows:

DIFFERENTIAL CORRECTIONS

TDE	TRA	TC3	BAU
RDE	RRA	RC3	FAU
FDE	FRA	FC3	BSP
BDE	BRA	BC3	FSP

The symbols are defined as follows:

Line 1

TDE, $\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Phi_s}$	the partial derivative of the \mathbf{T} component of the impact parameter \mathbf{B} , with respect to the declination of the launch escape asymptote Φ_s , in megakilometers/deg.
TRA, $\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial \Theta_s}$	the partial derivative of the \mathbf{T} component of the impact parameter \mathbf{B} , with respect to the right ascension of the launch escape asymptote Θ_s , in megakilometers/deg.
TC3, $\frac{\partial \mathbf{B} \cdot \mathbf{T}}{\partial C_3}$	the partial derivative of the \mathbf{T} component of the impact parameter \mathbf{B} , with respect to the injection energy C_3 , in megakilometers/km ² /sec ² .
BAU, $\frac{\partial \mathbf{B}}{\partial au}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the astronomical unit-to-kilometer conversion factor. This derivative is dimensionless and indicates the target miss caused by an uncertainty in the value of the astronomical unit.

Line 2

RDE, $\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Phi_s}$	the partial derivative of the \mathbf{R} component of the impact parameter \mathbf{B} , with respect to the declination of the launch escape asymptote Φ_s , in megakilometers/deg.
RRA, $\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial \Theta_s}$	the partial derivative of the \mathbf{R} component of the impact parameter \mathbf{B} , with respect to the right ascension of the launch

escape asymptote Θ_s , in megakilometers/deg.

RC3, $\frac{\partial \mathbf{B} \cdot \mathbf{R}}{\partial C_3}$ the partial derivative of the \mathbf{R} component of the impact parameter \mathbf{B} , with respect to the injection energy C_3 , in megakilometers/km²/sec².

FAU, $\frac{\partial T_F}{\partial au}$ the partial derivative of the flight time T_F , with respect to the astronomical unit-to-kilometer conversion factor. This derivative has dimensions of sec/km and indicates the error in flight time caused by an uncertainty in the value of the astronomical unit.

Line 3

FDE, $\frac{\partial T_F}{\partial \Phi_s}$	the partial derivative of flight time T_F , with respect to the declination of the launch escape asymptote Φ_s , in days/deg.
FRA, $\frac{\partial T_F}{\partial \Theta_s}$	the partial derivative of flight time T_F , with respect to the right ascension of the launch escape asymptote Θ_s , in days/deg.
FC3, $\frac{\partial T_F}{\partial C_3}$	the partial derivative of flight time T_F , with respect to the injection energy C_3 , in days/km ² /sec ² .
BSP, ΔB_{sp}	the target miss (in km) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

Line 4

BDE, $\frac{\partial \mathbf{B}}{\partial \Phi_s}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the declination of the launch escape asymptote Φ_s , in megakilometers/deg.
BRA, $\frac{\partial \mathbf{B}}{\partial \Theta_s}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the right ascension of the launch escape asymptote Θ_s , in megakilometers/deg.
BC3, $\frac{\partial \mathbf{B}}{\partial C_3}$	the partial derivative of the magnitude of the impact parameter \mathbf{B} , with respect to the injection energy C_3 , in megakilometers/km ² /sec ² .
FSP, $\Delta T_{F,sp}$	the flight time error (in sec) caused by solar radiation pressure acting on a 300-kg spacecraft having an effective perfectly reflecting area of 3.6 square meters.

D. Mid-Course Execution Accuracy Group

The MID-COURSE EXECUTION ACCURACY group gives the parameters of the "one-sigma" three-dimensional ellipsoid of target errors, resulting from a spherically distributed mid-course guidance execution error with σ_v equal to 0.1 m/sec (sec Eq. 49). It is assumed here that a single mid-course guidance maneuver is applied during the time the spacecraft is essentially traveling radially outward from the launch planet. This time is approximately from several hours to several days after launch and is a practical period in which to perform a mid-course maneuver. These quantities are quoted in the useful R, S, T coordinate system discussed above.

The print array for this group is:

MID-COURSE EXECUTION ACCURACY

SGT	SGR	SG3
RRT	RRF	RTF
SCB	R23	R13
SG1	SG2	THA

The quantities are defined as follows:

Line 1

SGT, σ_T	the standard deviation of position errors along the T axis, in km.
SGR, σ_R	the standard deviation of position errors along the R axis, in km.
SG3, σ_3	the standard deviation of flight time errors, in sec.

Line 2

RRT, ρ_{RT}	the linear correlation coefficient relating position errors in the R and T directions (dimensionless).
RRF, ρ_{RF}	the linear correlation coefficient relating position errors in the R direction and flight-time errors (dimensionless).
RTF, ρ_{TF}	the linear correlation coefficient relating position errors in the T direction and flight-time errors (dimensionless).

Line 3

SCB, σ_B	the square root of the sum of the squares of σ_R and σ_T .
-----------------	--

R23, ρ_{23} the linear correlation coefficient of σ_2 and σ_3 ($= \sigma_F$). The same remarks apply to this number as to ρ_{13} , except that the σ_2 direction replaces the σ_1 direction.

R13, ρ_{13} the linear correlation coefficient relating σ_1 and σ_3 ($= \sigma_F$). This number statistically relates position errors in the σ_1 direction to flight time errors. If $\rho_{13} = 1$, then a position error in the σ_1 direction will always be accompanied by a flight-time error which is linearly related to that position error; ρ_{13} is dimensionless.

Line 4

SG1, σ_1	the semimajor axis of the error ellipse formed by projecting the three-dimensional error ellipsoid onto the T-R plane (Fig. 8), in km.
SG2, σ_2	the semiminor axis of this error ellipse (Fig. 8), in km.
THA, θ	the angle between the T axis and the direction of the σ_1 axis, measured in the T-R plane as shown in Fig. 8, in deg.

E. Orbit Determination Accuracy Group

The ORBIT DETERMINATION ACCURACY group is comprised of 12 numbers which describe the uncertainty in target coordinates due to tracking errors described in Section IIE. The printout array for this group is as follows:

ORBIT DETERMINATION ACCURACY

ST	SR	SS
CRT	CRS	CST
LSA	MSA	SSA
EL1	EL2	ALF

The first two lines describe the covariance of M_1 by the method described in Section IIE (Eq. 67):

Line 1

ST, σ_T	the standard deviation of errors in the coordinate $B \cdot T$, in km.
SR, σ_R	the standard deviation of errors in the coordinate $B \cdot R$, in km.
SS, σ_S	the standard deviation of errors in S, in km.

Line 2

- CRT, ρ_{RT} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{R}$ to errors in $\mathbf{B} \cdot \mathbf{T}$, dimensionless.
- CRS, ρ_{RS} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{R}$ to errors in S , dimensionless.
- CST, ρ_{TS} the linear correlation coefficient relating errors in $\mathbf{B} \cdot \mathbf{T}$ to errors in S , dimensionless.

The third line contains the three semiaxes of the one-sigma position ellipsoid described by $\mathbf{M}_1 \mathbf{A}^{-1} \mathbf{M}^T = 1$.

Line 3

- LSA, $\sqrt{\epsilon_{max}}$ the largest semiaxis of the position ellipsoid, in km. (ϵ_{max} is the largest eigenvalue of Λ_{M_1} , in km^2 .)
- MSA, $\sqrt{\epsilon_{mid}}$ the middle semiaxis of the position ellipsoid, in km. (ϵ_{mid} is the second-largest, or middle, eigenvalue of Λ_{M_1} , in km^2 .)
- SSA, $\sqrt{\epsilon_{min}}$ the smallest semiaxis of the position ellipsoid, in km. (ϵ_{min} is the smallest eigenvalue of Λ_{M_1} , in km^2 .)

The fourth line describes the projection of the above position ellipsoid on the \mathbf{T} - \mathbf{R} plane. This projection is an ellipse with major and minor semiaxes and orientation as described below:

Line 4

- EL1 the major semiaxis of the target error ellipsoid projected onto the \mathbf{T} - \mathbf{R} plane, in km.

EL2

the minor semiaxis of the target error ellipsoid projected onto the \mathbf{T} - \mathbf{R} plane, in km.

ALF, α

the angle measured counterclockwise from the \mathbf{T} -axis to the major semiaxis direction, in deg ($0 \leq \alpha \leq 180$ deg).

The $\Lambda_{\dot{\mathbf{x}}}$ matrix used in generating the results for this report is

$$\Lambda_{\dot{\mathbf{x}}} = \begin{pmatrix} 100 \times 10^{-10} & 0 & 0 \\ 0 & 9 \times 10^{-10} & 0 \\ 0 & 0 & .09 \times 10^{-10} \end{pmatrix} \left(\frac{\text{km}}{\text{sec}} \right)^2$$

In all cases $\text{LSA} \gg \text{SSA}$, so that the information contained in lines 3 and 4 of the printout is very useful in visualizing the error ellipsoid. The general shape of the ellipsoid is a thin elliptical "pancake." When $\text{MSA} \ll \text{LSA}$, the "pancake" degenerates to approach a pencil shape. By inspecting the "shadow" of the pancake or pencil shape on the \mathbf{T} - \mathbf{R} plane, its orientation may be visualized.

If it is desired to estimate the flight time T_F , this can easily be done by the relation

$$\sigma_F = \frac{1}{V_{hp}} \sigma_S$$

The correlation coefficients between T_F and $\mathbf{B} \cdot \mathbf{T}$ are those given by CST; those between T_F and $\mathbf{B} \cdot \mathbf{R}$ are given by CRS.

IV. CONSTANTS

Constants used in trajectory calculations at the Jet Propulsion Laboratory are given in Ref. 9. For purposes of ready reference those constants used in the calculations contained herein are given below.

Gravitational Constants

1. Sun

$$GM_S = 2.959122083 \times 10^{-4} \text{ au}^3/\text{day}^2$$

2. Earth

$$GM_E = 3.986032 \times 10^5 \text{ km}^3/\text{sec}^2$$

Astronomical Unit-to-Kilometer Conversion Factor

$$1 \text{ au} = 149.599 \times 10^6 \text{ km}$$

Earth's Rotation Rate

$$\omega_E = 4.1780742 \times 10^{-3} \text{ deg/sec}$$

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Earth-Venus Trajectories, 1968-69

Launch date interval: February 4 to March 15, 1969

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LAUNCH DATE FEB 4 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 15 1969

HELIOCENTRIC CONIC

DISTANCE 172.256

RL 147.48 LAL .00 LOL 135.01 VL 24.948 GAL -2.45 AZL 87.39 MCA 73.87 SMA 112.72 ECC .31103 INC 2.6083 V1 30.211
 RP 108.05 LAP 2.51 LOP 208.86 VP 35.766 GAP -17.97 AZP 89.27 TAL 185.44 TAP 259.31 RCA 77.66 APO 147.78 V2 35.073
 RC 43.347 GL 11.71 GP 8.98 ZAL 103.80 ZAP 10.56 ETS 240.55 ZAE 160.86 ETE .23 ZAC 124.33 ETC 158.38 CLP 5.57

PLANETOCENTRIC CONIC

C3 31.259 VHL 5.591 CLA 22.72 RAL 24.38 RAD 6568.2 VEL 12.354 PTH 2.23 VHP 11.461 DPA 19.16 RAP 29.38 ECC 1.5144
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 39 3124.95 -26.99 105.43 262.42 81.10 1 31 44 2525.0 -27.95 96.90
 90.00 19 24 36 4167.35 -1.02 170.16 253.50 61.70 20 34 3 3567.4 -4.79 163.51
 100.00 2 17 56 2808.09 -29.03 82.45 262.75 82.53 3 4 44 2208.1 -29.76 73.73
 100.00 20 29 0 3959.45 .78 153.88 252.50 60.12 21 35 0 3359.5 -3.20 147.36
 110.00 4 0 51 2486.11 -33.98 58.58 263.33 86.07 4 42 17 1886.1 -34.15 49.34
 110.00 21 2 35 3854.19 5.01 143.27 249.87 56.14 22 6 49 3254.2 .53 137.05

DIFFERENTIAL CORRECTIONS

TDE -.3191 TRA -.5725 TC3 .2621 BAU .1098
 RDE -.4045 RRA .1050 RC3 .0164 FAU .02492
 FDE .2152 FRA .2002 FC3 -.6901 BSP 2166
 BDE .5152 BRA .5821 BC3 .2627 FSP -168

MID-COURSE EXECUTION ACCURACY

SGT 773.0 SGR 431.0 SG3 72.0
 RRT .2003 RRF -.2218 RTF -.6832
 SGB 885.0 R23 -.0287 R13 -.6881
 SG1 779.7 SG2 418.6 THA 8.98

ORBIT DETERMINATION ACCURACY

ST 378.7 SR 416.0 SS 229.3
 CRT .8180 CRS .9249 CST .9698
 LSA 582.9 MSA 170.4 SSA 17.7
 EL1 536.6 EL2 168.9 ALF 48.28

LAUNCH DATE FEB 4 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 178.967

RL 147.48 LAL .00 LOL 135.01 VL 25.253 GAL -2.53 AZL 87.57 MCA 77.07 SMA 114.20 ECC .29439 INC 2.4350 V1 30.211
 RP 108.09 LAP 2.37 LOP 212.07 VP 35.966 GAP -16.85 AZP 89.46 TAL 186.10 TAP 263.17 RCA 80.58 APO 147.82 V2 35.060
 RC 44.011 GL 11.67 GP 9.48 ZAL 105.13 ZAP 10.16 ETS 251.33 ZAE 158.52 ETE 2.51 ZAC 125.29 ETC 157.54 CLP 3.67

PLANETOCENTRIC CONIC

C3 28.099 VHL 5.301 CLA 22.19 RAL 23.05 RAD 6568.1 VEL 12.226 PTH 2.20 VHP 10.831 DPA 20.13 RAP 30.44 ECC 1.4624
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 41 35 3072.46 -27.49 101.67 258.92 82.92 1 32 47 2472.5 -28.18 93.08
 90.00 19 12 4 4166.47 -1.04 170.11 250.31 61.70 20 21 31 3566.5 -4.82 163.47
 100.00 2 18 53 2758.73 -29.41 78.84 259.16 84.40 3 4 52 2158.7 -29.88 70.06
 100.00 20 17 28 3955.43 .64 153.66 249.37 60.11 21 23 23 3355.4 -3.34 147.14
 110.00 4 0 11 2441.81 -34.14 55.13 259.52 88.10 4 40 53 1841.8 -34.02 45.89
 110.00 20 52 39 3845.12 4.67 142.80 246.86 56.10 21 56 44 3245.1 .18 136.58

DIFFERENTIAL CORRECTIONS

TDE -.3176 TRA -.5481 TC3 .3258 BAU .1229
 RDE -.3870 RRA .1013 RC3 .0315 FAU .02661
 FDE .2191 FRA .1911 FC3 -.8198 BSP 2299
 BDE .5007 BRA .5574 BC3 .3273 FSP -192

MID-COURSE EXECUTION ACCURACY

SGT 804.1 SGR 436.0 SG3 80.2
 RRT .2266 RRF -.2514 RTF -.7025
 SGB 914.7 R23 -.0331 R13 -.7081
 SG1 812.4 SG2 420.3 THA 9.60

ORBIT DETERMINATION ACCURACY

ST 393.4 SR 419.8 SS 231.6
 CRT .8282 CRS .9309 CST .9697
 LSA 596.4 MSA 169.3 SSA 18.6
 EL1 550.2 EL2 168.2 ALF 47.24

LAUNCH DATE FEB 4 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 185.690

RL 147.48 LAL .00 LOL 135.01 VL 25.532 GAL -2.63 AZL 87.73 MCA 80.28 SMA 115.61 ECC .27910 INC 2.2662 V1 30.211
 RP 108.13 LAP 2.23 LOP 215.28 VP 36.150 GAP -15.79 AZP 89.62 TAL 186.83 TAP 267.11 RCA 83.35 APO 147.88 V2 35.047
 RC 44.838 GL 11.54 GP 10.04 ZAL 106.59 ZAP 10.19 ETS 262.78 ZAE 156.30 ETE 4.53 ZAC 126.19 ETC 156.62 CLP 1.74

PLANETOCENTRIC CONIC

C3 25.404 VHL 5.040 CLA 21.53 RAL 21.65 RAD 6568.0 VEL 12.115 PTH 2.17 VHP 10.233 DPA 21.12 RAP 31.46 ECC 1.4181
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 29 3016.82 -27.89 97.65 255.39 84.90 1 34 46 2416.8 -28.31 89.01
 90.00 18 57 59 4172.06 -.86 170.42 247.11 61.70 20 7 31 3572.1 -4.64 163.78
 100.00 2 20 43 2706.55 -29.70 74.98 255.55 86.41 3 5 49 2106.5 -29.88 66.18
 100.00 20 4 27 3957.56 .72 153.78 246.23 60.12 21 10 24 3357.6 -3.26 147.25
 110.00 4 0 10 2395.41 -34.18 51.51 255.70 90.25 4 40 5 1795.4 -33.77 42.29
 110.00 20 41 29 3841.47 4.53 142.60 243.86 56.08 21 45 31 3241.5 .04 136.39

DIFFERENTIAL CORRECTIONS

TDE -.3149 TRA -.5241 TC3 .3962 BAU .1357
 RDE -.3707 RRA .0984 RC3 .0510 FAU .02850
 FDE .2214 FRA .1801 FC3 -.9713 BSP 2418
 BDE .4864 BRA .5333 BC3 .3995 FSP -218

MID-COURSE EXECUTION ACCURACY

SGT 835.4 SGR 441.2 SG3 89.4
 RRT .2561 RRF -.2847 RTF -.7198
 SGB 944.8 R23 -.0386 R13 -.7262
 SG1 845.6 SG2 421.3 THA 10.28

ORBIT DETERMINATION ACCURACY

ST 406.5 SR 422.9 SS 231.5
 CRT .8373 CRS .9366 CST .9690
 LSA 607.6 MSA 167.8 SSA 19.7
 EL1 562.3 EL2 167.2 ALF 46.35

LAUNCH DATE FEB 4 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 192.421

RL 147.48 LAL .00 LOL 135.01 VL 25.787 GAL -2.73 AZL 87.90 MCA 83.48 SMA 116.95 ECC .26510 INC 2.1007 V1 30.211
 RP 108.17 LAP 2.09 LOP 218.49 VP 36.318 GAP -14.77 AZP 89.76 TAL 187.63 TAP 271.11 RCA 85.94 APO 147.95 V2 35.033
 RC 45.818 GL 11.33 GP 10.65 ZAL 108.15 ZAP 10.65 ETS 273.97 ZAE 154.23 ETE 6.38 ZAC 127.01 ETC 155.64 CLP -2.24

PLANETOCENTRIC CONIC

C3 23.106 VHL 4.807 CLA 20.74 RAL 20.20 RAD 6567.9 VEL 12.020 PTH 2.15 VHP 9.664 DPA 22.16 RAP 32.41 ECC 1.3803
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 48 19 2958.58 -28.17 93.41 251.87 87.01 1 37 37 2358.6 -28.29 84.75
 90.00 18 42 35 4183.80 -.48 171.08 243.95 61.69 19 52 19 3583.8 -4.27 164.44
 100.00 2 23 24 2651.95 -29.86 70.93 251.95 88.53 3 7 36 2052.0 -29.74 62.13
 100.00 19 50 10 3965.66 .99 154.22 243.13 60.12 20 56 16 3365.7 -2.99 147.70
 110.00 4 0 50 2347.13 -34.10 47.74 251.90 92.48 4 39 57 1747.1 -33.38 38.57
 110.00 20 29 14 3843.25 4.60 142.70 240.89 56.09 21 33 17 3243.2 .11 136.48

DIFFERENTIAL CORRECTIONS

TDE -.3089 TRA -.4974 TC3 .4787 BAU .1497
 RDE -.3553 RRA .0961 RC3 .0759 FAU .03065
 FDE .2210 FRA .1663 FC3 -1.1486 BSP 2613
 BDE .4708 BRA .5067 BC3 .4847 FSP -249

MID-COURSE EXECUTION ACCURACY

SGT 865.7 SGR 446.8 SG3 99.8
 RRT .2890 RRF -.3220 RTF -.7398
 SGB 974.2 R23 -.0433 R13 -.7471
 SG1 878.2 SG2 421.6 THA 11.07

ORBIT DETERMINATION ACCURACY

ST 414.6 SR 425.0 SS 227.9
 CRT .8451 CRS .9418 CST .9677
 LSA 613.7 MSA 165.6 SSA 21.0
 EL1 570.4 EL2 165.2 ALF 45.84

LAUNCH DATE FEB 4 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC DISTANCE 199.155

RL 147.48 LAL .00 LOL 135.01 VL 26.019 GAL -2.84 AZL 88.06 HCA 86.69 SMA 118.20 ECC .25232 INC 1.9374 V1 30.211
 RP 108.21 LAP 1.93 LOP 221.69 VP 36.470 GAP -13.80 AZP 89.89 TAL 188.49 TAP 275.17 RCA 88.37 APO 148.02 V2 35.020
 RC 46.944 GL 11.01 GP 11.33 ZAL 109.80 ZAP 11.55 ETS 284.07 ZAE 152.31 ETE 8.14 ZAC 127.72 ETC 154.59 CLP -2.25

PLANETOCENTRIC CONIC

C3 21.151 VHL 4.599 DLA 19.83 RAL 18.73 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 9.124 OPA 23.23 RAP 33.29 ECC 1.3481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 52 59 2898.32 -28.31 89.01 248.39 89.21 1 41 18 2298.3 -28.12 80.35
 90.00 18 26 8 4201.26 .08 172.05 240.88 61.68 19 36 9 3601.3 -3.71 165.42
 100.00 2 26 55 2595.41 -29.88 66.73 248.39 90.74 3 10 11 1995.4 -29.46 57.95
 100.00 19 34 53 3979.39 1.46 154.98 240.11 60.14 20 41 12 3379.4 -2.53 148.45
 110.00 4 2 13 2297.28 -33.89 43.86 248.16 94.76 4 40 30 1697.3 -32.86 34.77
 110.00 20 16 5 3850.29 4.86 143.07 237.99 56.12 21 20 15 3250.3 .38 136.85

DIFFERENTIAL CORRECTIONS

TDE -.3023 TRA -.4733 TC3 .5635 BAU .1622
 RDE -.3408 RRA .0946 RC3 .1067 FAU .03304
 FDE .2181 FRA .1504 FC3-1.3522 BSP 2734
 BDE .4555 BRA .4826 BC3 .5735 FSP -283

MID-COURSE EXECUTION ACCURACY

SGT 896.2 SGR 453.4 SG3 111.3
 RRT .3254 RRF -.3636 RTF -.7549
 SGB 1004.4 R23 -.0508 R13 -.7634
 SG1 911.7 SG2 421.4 THA 11.93

ORBIT DETERMINATION ACCURACY

ST 421.2 SR 426.2 SS 221.3
 CRT .8514 CRS .9463 CST .9654
 LSA 617.1 MSA 163.5 SSA 22.4
 EL1 576.5 EL2 163.3 ALF 45.40

LAUNCH DATE FEB 4 1969

FLIGHT TIME 80.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC DISTANCE 205.889

RL 147.48 LAL .00 LOL 135.01 VL 26.230 GAL -2.95 AZL 88.22 HCA 89.88 SMA 119.37 ECC .24070 INC 1.7754 V1 30.211
 RP 108.25 LAP 1.78 LOP 224.89 VP 36.608 GAP -12.88 AZP 90.00 TAL 189.40 TAP 279.28 RCA 90.64 APO 148.10 V2 35.007
 RC 48.205 GL 10.59 GP 12.09 ZAL 111.51 ZAP 12.83 ETS 292.66 ZAE 150.57 ETE 9.87 ZAC 128.33 ETC 153.47 CLP -4.33

PLANETOCENTRIC CONIC

C3 19.489 VHL 4.415 DLA 18.79 RAL 17.25 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 8.613 OPA 24.35 RAP 34.10 ECC 1.3207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 58 27 2836.56 -28.28 84.49 244.98 91.48 1 45 43 2236.6 -27.78 75.87
 90.00 18 8 55 4223.96 .81 173.32 237.92 61.69 19 19 19 3624.0 -2.98 166.69
 100.00 2 31 14 2537.37 -29.75 62.42 244.91 93.01 3 13 31 1937.4 -29.02 53.69
 100.00 19 18 49 3998.38 2.10 156.02 237.21 60.17 20 25 28 3398.4 -1.88 149.50
 110.00 4 4 19 2246.14 -33.53 39.91 244.52 97.07 4 41 45 1646.1 -32.19 30.94
 110.00 20 2 14 3862.38 5.32 143.70 235.20 56.18 21 6 36 3262.4 .84 137.48

DIFFERENTIAL CORRECTIONS

TDE -.2962 TRA -.4512 TC3 .6490 BAU .1732
 RDE -.3271 RRA .0935 RC3 .1442 FAU .03567
 FDE .2126 FRA .1331 FC3-1.5846 BSP 2813
 BDE .4413 BRA .4608 BC3 .6648 FSP -320

MID-COURSE EXECUTION ACCURACY

SGT 926.7 SGR 461.4 SG3 124.2
 RRT .3668 RRF -.4099 RTF -.7661
 SGB 1035.2 R23 -.0599 R13 -.7762
 SG1 946.0 SG2 420.5 THA 12.95

ORBIT DETERMINATION ACCURACY

ST 427.3 SR 426.3 SS 211.7
 CRT .8573 CRS .9501 CST .9625
 LSA 618.4 MSA 161.3 SSA 24.1
 EL1 581.6 EL2 161.2 ALF 44.92

LAUNCH DATE FEB 4 1969

FLIGHT TIME 82.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC DISTANCE 212.618

RL 147.48 LAL .00 LOL 135.01 VL 26.422 GAL -3.06 AZL 88.39 HCA 93.08 SMA 120.47 ECC .23017 INC 1.6135 V1 30.211
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.733 GAP -12.00 AZP 90.09 TAL 190.35 TAP 283.43 RCA 92.74 APO 148.19 V2 34.994
 RC 49.590 GL 10.06 GP 12.93 ZAL 113.26 ZAP 14.43 ETS 299.70 ZAE 149.02 ETE 11.62 ZAC 128.81 ETC 152.30 CLP -6.47

PLANETOCENTRIC CONIC

C3 18.080 VHL 4.252 DLA 17.64 RAL 15.80 RAD 6567.7 VEL 11.809 PTH 2.09 VHP 8.128 OPA 25.52 RAP 34.80 ECC 1.2975
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 4 38 2773.75 -28.09 79.91 241.69 93.77 1 50 52 2173.7 -27.27 71.34
 90.00 17 51 11 4251.44 1.70 174.85 235.12 61.73 19 2 2 3651.4 -2.09 168.22
 100.00 2 36 17 2478.21 -29.46 58.05 241.56 95.29 3 17 35 1878.2 -28.42 49.40
 100.00 19 2 13 4022.22 2.91 157.33 234.45 60.24 20 9 15 3422.2 -1.08 150.81
 110.00 4 7 8 2193.98 -33.02 35.93 241.03 99.38 4 43 42 1594.0 -31.37 27.09
 110.00 19 47 52 3879.22 5.96 144.59 232.56 56.28 20 52 31 3279.2 1.49 138.36

DIFFERENTIAL CORRECTIONS

TDE -.2845 TRA -.4259 TC3 .7449 BAU .1858
 RDE -.3137 RRA .0934 RC3 .1900 FAU .03868
 FDE .2018 FRA .1119 FC3-1.8523 BSP 2975
 BDE .4236 BRA .4360 BC3 .7687 FSP -364

MID-COURSE EXECUTION ACCURACY

SGT 954.4 SGR 471.5 SG3 138.8
 RRT .4109 RRF -.4602 RTF -.7810
 SGB 1064.5 R23 -.0682 R13 -.7929
 SG1 978.5 SG2 419.2 THA 14.12

ORBIT DETERMINATION ACCURACY

ST 424.3 SR 424.7 SS 196.7
 CRT .8605 CRS .9528 CST .9572
 LSA 610.9 MSA 158.6 SSA 26.0
 EL1 579.0 EL2 158.5 ALF 45.03

LAUNCH DATE FEB 4 1969

FLIGHT TIME 84.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC DISTANCE 219.340

RL 147.48 LAL .00 LOL 135.01 VL 26.596 GAL -3.17 AZL 88.55 HCA 96.27 SMA 121.48 ECC .22067 INC 1.4507 V1 30.211
 RP 108.33 LAP 1.44 LOP 231.28 VP 36.846 GAP -11.15 AZP 90.16 TAL 191.33 TAP 287.61 RCA 94.67 APO 148.29 V2 34.980
 RC 51.091 GL 9.42 GP 13.86 ZAL 115.02 ZAP 16.31 ETS 305.38 ZAE 147.65 ETE 13.44 ZAC 129.14 ETC 151.06 CLP -8.68

PLANETOCENTRIC CONIC

C3 16.886 VHL 4.109 DLA 16.37 RAL 14.41 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 7.670 OPA 26.75 RAP 35.40 ECC 1.2779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 11 31 2710.30 -27.72 75.31 238.54 96.04 1 56 42 2110.3 -26.59 66.82
 90.00 17 33 10 4283.23 2.72 176.62 232.52 61.80 18 44 33 3683.2 -1.07 170.00
 100.00 2 42 4 2418.32 -29.01 53.65 238.37 97.56 3 22 22 1818.3 -27.66 45.11
 100.00 18 45 19 4050.44 3.86 158.88 231.89 60.33 19 52 49 3450.4 -1.12 152.35
 110.00 4 10 40 2141.09 -32.36 31.94 237.71 101.65 4 46 21 1541.1 -30.42 23.26
 110.00 19 33 12 3900.44 6.76 145.71 230.09 56.41 20 38 12 3300.4 2.30 139.47

DIFFERENTIAL CORRECTIONS

TDE -.2723 TRA -.4030 TC3 .8386 BAU .1972
 RDE -.3007 RRA .0938 RC3 .2446 FAU .04202
 FDE .1863 FRA .0888 FC3-2.1546 BSP 3099
 BDE .4057 BRA .4138 BC3 .8735 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 980.9 SGR 484.5 SG3 155.0
 RRT .4585 RRF -.5144 RTF -.7924
 SGB 1094.0 R23 -.0790 R13 -.8065
 SG1 1011.1 SG2 417.7 THA 15.46

ORBIT DETERMINATION ACCURACY

ST 418.9 SR 421.3 SS 177.6
 CRT .8621 CRS .9536 CST .9491
 LSA 599.5 MSA 156.0 SSA 28.3
 EL1 573.2 EL2 156.0 ALF 45.19

LAUNCH DATE FEB 4 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 226.050

RL 147.48 LAL .00 LOL 135.01 VL 26.753 GAL -3.27 AZL 88.71 MCA 99.47 SMA 122.42 ECC .21214 INC 1.2861 V1 30.211
 RP 108.38 LAP 1.27 LOP 234.47 VP 36.947 GAP -10.35 AZP 90.21 TAL 192.34 TAP 291.80 RCA 96.45 APO 148.39 V2 34.967
 RC 52.697 GL 8.65 GP 14.91 ZAL 116.78 ZAP 18.44 ETS 309.94 ZAE 146.46 ETE 15.36 ZAC 129.32 ETC 149.78 CLP -10.98

PLANETOCENTRIC CONIC

C3 15.877 VHL 3.985 OLA 15.00 RAL 13.09 RAD 6567.6 VEL 11.716 PTH 2.06 VHP 7.239 DPA 28.05 RAP 35.86 ECC 1.2613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 19 5 2646.54 -27.17 70.72 235.58 98.28 2 3 11 2046.5 -25.75 62.34
 90.00 17 15 6 4318.84 3.87 178.62 230.13 61.93 18 27 4 3718.8 .08 171.98
 100.00 2 48 33 2357.99 -28.39 49.28 235.37 99.78 3 27 51 1758.0 -26.74 40.86
 100.00 18 28 18 4082.62 4.94 160.66 229.53 60.48 19 36 21 3482.6 .97 154.12
 110.00 4 14 56 2087.70 -31.56 27.98 234.60 103.87 4 49 44 1487.7 -29.33 19.49
 110.00 19 18 24 3925.68 7.71 147.05 227.83 56.59 20 23 50 3325.7 3.26 140.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2582 TRA -.3810 TC3 .9296 BAU .2079 SGT 1004.2 SGR 501.6 SG3 173.1 ST 409.0 SR 415.8 SS 153.8
 RDE -.2876 RRA .0948 RC3 .3090 FAU .04572 RRT .5080 RRF -.5712 RTF -.8020 CRT .8614 CRS .9508 CST .9354
 FDE .1648 FRA .0632 FC3-2.4933 BSP 3212 SGB 1122.5 R23 -.0914 R13 -.8191 LSA 582.5 MSA 153.6 SSA 31.0
 BOE .3865 BRA .3927 BC3 .9796 FSP -468 SG1 1042.5 SG2 416.2 THA 17.03 EL1 562.7 EL2 153.5 ALF 45.55

LAUNCH DATE FEB 4 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 232.747

RL 147.48 LAL .00 LOL 135.01 VL 26.895 GAL -3.37 AZL 88.88 MCA 102.65 SMA 123.29 ECC .20449 INC 1.1185 V1 30.211
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.038 GAP -9.57 AZP 90.25 TAL 193.34 TAP 296.00 RCA 98.08 APO 148.50 V2 34.954
 RC 54.398 GL 7.77 GP 16.07 ZAL 118.50 ZAP 20.80 ETS 313.63 ZAE 145.44 ETE 17.43 ZAC 129.30 ETC 148.47 CLP -13.38

PLANETOCENTRIC CONIC

C3 15.026 VHL 3.876 OLA 13.54 RAL 11.87 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 6.834 DPA 29.41 RAP 36.16 ECC 1.2473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 27 19 2582.66 -26.47 66.18 232.84 100.45 2 10 21 1982.7 -24.75 57.93
 90.00 16 57 7 4357.89 5.11 180.81 227.98 62.11 18 9 45 3757.9 1.34 174.16
 100.00 2 55 45 2297.43 -27.61 44.94 232.58 101.94 3 34 3 1697.4 -25.68 36.67
 100.00 18 11 22 4118.36 6.14 162.64 227.42 60.69 19 20 0 3518.4 2.18 156.08
 110.00 4 19 57 2033.98 -30.62 24.08 231.73 106.00 4 53 51 1434.0 -28.12 15.77
 110.00 19 3 40 3954.57 8.79 148.59 225.79 56.83 20 9 34 3354.6 4.36 142.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2418 TRA -.3602 TC3 1.0170 BAU .2184 SGT 1024.3 SGR 524.1 SG3 193.2 ST 394.0 SR 407.6 SS 125.2
 RDE -.2741 RRA .0965 RC3 .3849 FAU .04985 RRT .5582 RRF -.6294 RTF -.8106 CRT .8577 CRS .9390 CST .9087
 FDE .1358 FRA .0354 FC3-2.8724 BSP 3325 SGB 1150.6 R23 -.1052 R13 -.8315 LSA 559.5 MSA 151.2 SSA 34.1
 BOE .3655 BRA .3729 BC3 1.0874 FSP -530 SG1 1073.1 SG2 415.1 THA 18.87 EL1 546.4 EL2 151.1 ALF 46.13

LAUNCH DATE FEB 4 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 239.427

RL 147.48 LAL .00 LOL 135.01 VL 27.023 GAL -3.46 AZL 89.05 MCA 105.84 SMA 124.08 ECC .19768 INC .9467 V1 30.211
 RP 108.45 LAP .91 LOP 240.85 VP 37.119 GAP -8.84 AZP 90.26 TAL 194.34 TAP 300.18 RCA 99.55 APO 148.61 V2 34.942
 RC 56.186 GL 6.77 GP 17.37 ZAL 120.17 ZAP 23.37 ETS 316.64 ZAE 144.59 ETE 19.70 ZAC 129.09 ETC 147.15 CLP -15.89

PLANETOCENTRIC CONIC

C3 14.310 VHL 3.783 OLA 11.99 RAL 10.77 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 6.455 DPA 30.86 RAP 36.28 ECC 1.2355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 36 14 2518.81 -25.60 61.70 230.33 102.54 2 18 13 1918.8 -23.62 53.59
 90.00 16 39 24 4400.04 6.45 183.19 226.08 62.37 17 52 44 3800.0 2.70 176.51
 100.00 3 3 41 2236.78 -26.68 40.68 230.05 104.00 3 40 58 1636.8 -24.49 32.56
 100.00 17 54 38 4157.30 7.43 164.81 225.55 60.96 19 3 55 3557.3 3.50 158.22
 110.00 4 25 43 1980.07 -29.54 20.25 229.12 108.03 4 58 43 1380.1 -26.80 12.14
 110.00 18 49 5 3986.78 9.98 150.32 224.00 57.14 19 55 32 3386.8 5.58 143.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2237 TRA -.3408 TC3 1.0958 BAU .2283 SGT 1039.5 SGR 553.4 SG3 215.4 ST 374.8 SR 396.2 SS 92.6
 RDE -.2597 RRA .0989 RC3 .4731 FAU .05438 RRT .6071 RRF -.6869 RTF -.8173 CRT .8504 CRS .8971 CST .8437
 FDE .0979 FRA .0055 FC3-3.2901 BSP 3431 SGB 1177.6 R23 -.1206 R13 -.8432 LSA 531.3 MSA 149.1 SSA 37.8
 BOE .3428 BRA .3548 BC3 1.1936 FSP -599 SG1 1102.2 SG2 414.8 THA 21.03 EL1 524.6 EL2 148.9 ALF 46.87

LAUNCH DATE FEB 4 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 246.089

RL 147.48 LAL .00 LOL 135.01 VL 27.137 GAL -3.55 AZL 89.23 MCA 109.03 SMA 124.80 ECC .19163 INC .7696 V1 30.211
 RP 108.49 LAP .73 LOP 244.03 VP 37.190 GAP -8.13 AZP 90.25 TAL 195.31 TAP 304.33 RCA 100.89 APO 148.72 V2 34.929
 RC 58.051 GL 5.64 GP 18.82 ZAL 121.76 ZAP 26.17 ETS 319.14 ZAE 143.88 ETE 22.22 ZAC 128.65 ETC 145.83 CLP -18.53

PLANETOCENTRIC CONIC

C3 13.711 VHL 3.703 OLA 10.35 RAL 9.80 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 6.102 DPA 32.40 RAP 36.20 ECC 1.2256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 53 2454.98 -24.58 57.30 228.09 104.51 2 26 48 1855.0 -22.35 49.35
 90.00 16 22 0 4445.05 7.86 185.74 224.46 62.71 17 36 5 3845.1 4.14 179.03
 100.00 3 12 22 2176.06 -25.61 36.48 227.78 105.96 3 48 38 1576.1 -23.18 28.53
 100.00 17 38 12 4199.21 8.81 167.16 223.96 61.32 18 48 12 3599.2 4.91 160.53
 110.00 4 32 16 1925.98 -28.34 16.50 226.78 109.96 5 4 22 1326.0 -25.36 8.59
 110.00 18 34 47 4022.05 11.28 152.23 222.47 57.52 19 41 49 3422.0 6.91 145.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2022 TRA .3217 TC3 1.1690 BAU .2389 SGT 1050.5 SGR 591.5 SG3 240.2 ST 348.8 SR 380.3 SS 59.2
 RDE -.2436 RRA .1020 RC3 .5761 FAU .05942 RRT .6536 RRF -.7421 RTF -.8243 CRT .8369 CRS .6940 CST .5986
 FDE .0479 FRA -.0269 FC3-3.7518 BSP 3575 SGB 1205.5 R23 -.1348 R13 -.8565 LSA 496.3 MSA 147.0 SSA 42.4
 BOE .3166 BRA .3375 BC3 1.3032 FSP -679 SG1 1131.7 SG2 415.5 THA 23.57 EL1 494.7 EL2 146.8 ALF 47.95

LAUNCH DATE FEB 4 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 252.731

RL 147.48 LAL .00 LOL 135.01 VL 27.239 GAL -3.63 AZL 89.41 MCA 112.21 SMA 125.45 ECC .18628 INC .5857 V1 30.211
 RP 108.53 LAP .54 LOP 247.21 VP 37.253 GAP -7.45 AZP 90.22 TAL 196.24 TAP 308.45 RCA 102.08 APO 148.82 V2 34.917
 RC 59.985 GL 4.39 GP 20.43 ZAL 123.25 ZAP 29.19 ETS 321.26 ZAE 143.29 ETE 25.04 ZAC 127.96 ETC 144.54 CLP -21.31

PLANETOCENTRIC CONIC

C3 13.211 VHL 3.635 CLA 8.64 RAL 8.97 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 5.776 OPA 34.03 RAP 35.87 ECC 1.2174
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 56 18 2391.12 -23.42 52.98 226.11 106.38 2 36 9 1791.1 -20.96 45.18
 90.00 16 5 0 4492.77 9.34 188.46 223.13 63.15 17 19 53 3892.8 5.67 181.71
 100.00 3 21 51 2115.22 -24.41 32.36 225.78 107.81 3 57 6 1515.2 -21.74 24.58
 100.00 17 22 9 4243.89 10.26 169.68 222.64 61.77 18 32 53 3643.9 6.40 163.01
 110.00 4 39 39 1871.72 -27.03 12.83 224.73 111.77 5 10 51 1271.7 -23.83 5.12
 110.00 18 20 50 4060.16 12.66 154.31 221.22 57.98 19 28 30 3460.2 8.34 147.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1814 TRA -.3065 TC3 1.2221 BAU .2482 SGT 1053.5 SGR 639.7 SG3 266.7 ST 322.4 SR 359.8 SS 49.3
 RDE -.2258 RRA .1054 RC3 .6938 FAU .06478 RRT .6939 RRF -.7923 RTF -.8271 CRT .8170 CRS -.1222 CST -.2312
 FDE -.0127 FRA -.0583 FC3-4.2449 BSP 3667 SGB 1232.5 R23 -.1513 R13 -.8679 LSA 460.8 MSA 145.5 SSA 47.5
 BDE .2896 BRA .3241 BC3 1.4053 FSP -762 SG1 1159.2 SG2 418.6 THA 26.58 EL1 460.8 EL2 145.2 ALF 48.83

LAUNCH DATE FEB 4 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 259.352

RL 147.48 LAL .00 LOL 135.01 VL 27.329 GAL -3.70 AZL 89.61 MCA 115.39 SMA 126.04 ECC .18157 INC .3934 V1 30.211
 RP 108.57 LAP .36 LOP 250.39 VP 37.308 GAP -6.80 AZP 90.17 TAL 197.12 TAP 312.51 RCA 103.16 APO 148.93 V2 34.906
 RC 61.981 GL 3.00 GP 22.23 ZAL 124.62 ZAP 32.44 ETS 323.11 ZAE 142.77 ETE 28.21 ZAC 126.99 ETC 143.32 CLP -24.25

PLANETOCENTRIC CONIC

C3 12.798 VHL 3.577 CLA 6.85 RAL 8.31 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 5.478 OPA 35.77 RAP 35.26 ECC 1.2106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 36 2327.02 -22.13 48.73 224.42 108.13 2 46 23 1727.0 -19.45 41.09
 90.00 15 48 25 4543.17 10.88 191.37 222.09 63.69 17 4 8 3943.2 7.26 184.56
 100.00 3 32 12 2054.11 -23.08 28.31 224.07 109.55 4 6 27 1454.1 -20.20 20.70
 100.00 17 6 29 4291.31 11.77 172.39 221.62 62.32 18 18 0 3691.3 7.97 165.66
 110.00 4 47 56 1817.14 -25.60 9.23 222.98 113.47 5 18 13 1217.1 -22.20 1.72
 110.00 18 7 15 4101.05 14.13 156.58 220.25 58.54 19 15 36 3501.1 9.86 150.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1599 TRA -.2939 TC3 1.2569 BAU .2576 SGT 1048.3 SGR 700.1 SG3 295.2 ST 294.2 SR 333.2 SS 84.4
 RDE -.2051 RRA .1091 RC3 .8283 FAU .07047 RRT .7272 RRF -.8364 RTF -.8275 CRT .7867 CRS -.7032 CST -.7452
 FDE -.0872 FRA -.0886 FC3-4.7671 BSP 3763 SGB 1260.6 R23 -.1665 R13 -.8797 LSA 425.6 MSA 144.2 SSA 53.2
 BDE .2601 BRA .3135 BC3 1.5053 FSP -854 SG1 1187.0 SG2 424.5 THA 30.15 EL1 420.6 EL2 143.9 ALF 49.51

LAUNCH DATE FEB 4 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 265.949

RL 147.48 LAL .00 LOL 135.01 VL 27.409 GAL -3.76 AZL 89.81 MCA 118.56 SMA 126.57 ECC .17744 INC .1901 V1 30.211
 RP 108.60 LAP .17 LOP 253.57 VP 37.356 GAP -6.17 AZP 90.09 TAL 197.95 TAP 316.51 RCA 104.11 APO 149.02 V2 34.894
 RC 64.032 GL 1.48 GP 24.22 ZAL 125.85 ZAP 35.92 ETS 324.78 ZAE 142.29 ETE 31.77 ZAC 125.74 ETC 142.20 CLP -27.38

PLANETOCENTRIC CONIC

C3 12.461 VHL 3.530 CLA 4.98 RAL 7.81 RAD 6567.5 VEL 11.569 PTH 2.02 VHP 5.209 OPA 37.62 RAP 34.32 ECC 1.2051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 19 52 2262.40 -20.70 44.53 223.03 109.77 2 57 34 1662.4 -17.82 37.04
 90.00 15 32 12 4596.39 12.46 194.47 221.35 64.37 16 48 49 3996.4 8.91 187.59
 100.00 3 43 33 1992.46 -21.62 24.31 222.66 111.17 4 16 45 1392.5 -18.55 16.86
 100.00 16 51 12 4341.55 13.34 175.29 220.90 63.00 18 3 33 3741.6 9.61 168.48
 110.00 4 57 10 1762.04 -24.06 5.69 221.53 115.05 5 26 32 1162.0 -20.48 358.37
 110.00 17 54 4 4144.74 15.67 159.03 219.58 59.22 19 3 9 3544.7 11.47 152.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1379 TRA -.2837 TC3 1.2699 BAU .2673 SGT 1033.2 SGR 774.3 SG3 325.2 ST 264.7 SR 299.0 SS 142.1
 RDE -.1806 RRA .1130 RC3 .9811 FAU .07641 RRT .7519 RRF -.8736 RTF -.8248 CRT .7394 CRS -.8407 CST -.8337
 FDE -.1783 FRA -.1165 FC3-5.3089 BSP 3864 SGB 1291.2 R23 -.1780 R13 -.8924 LSA 394.6 MSA 143.0 SSA 59.1
 BDE .2273 BRA .3054 BC3 1.6047 FSP -951 SG1 1216.2 SG2 433.8 THA 34.37 EL1 372.9 EL2 142.9 ALF 49.69

LAUNCH DATE FEB 4 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 272.522

RL 147.48 LAL .00 LOL 135.01 VL 27.479 GAL -3.82 AZL 90.02 MCA 121.74 SMA 127.03 ECC .17383 INC .0210 V1 30.211
 RP 108.64 LAP -.02 LOP 256.74 VP 37.397 GAP -5.58 AZP 89.99 TAL 198.70 TAP 320.44 RCA 104.95 APO 149.11 V2 34.883
 RC 66.131 GL -.19 GP 26.43 ZAL 126.92 ZAP 39.65 ETS 326.37 ZAE 141.79 ETE 35.78 ZAC 124.18 ETC 141.21 CLP -30.70

PLANETOCENTRIC CONIC

C3 12.192 VHL 3.492 CLA 3.03 RAL 7.50 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 4.970 OPA 39.58 RAP 33.00 ECC 1.2007
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 33 15 2196.82 -19.13 40.36 221.94 111.28 3 9 52 1596.8 -16.07 33.02
 90.00 15 16 18 4652.70 14.10 197.80 220.93 65.19 16 33 51 4052.7 10.64 190.83
 100.00 3 56 0 1929.89 -20.02 20.35 221.56 112.67 4 28 10 1329.9 -16.78 13.06
 100.00 16 36 14 4394.87 14.97 178.41 220.50 63.82 17 49 29 3794.9 11.33 171.51
 110.00 5 7 30 1706.13 -22.40 2.19 220.39 116.52 5 35 56 1106.1 -18.66 355.06
 110.00 17 41 14 4191.40 17.27 161.69 219.22 60.03 18 51 5 3591.4 13.16 155.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1149 TRA -.2751 TC3 1.2626 BAU .2789 SGT 1008.6 SGR 865.1 SG3 356.7 ST 233.7 SR 254.9 SS 213.1
 RDE -.1506 RRA .1171 RC3 1.1547 FAU .08257 RRT .7686 RRF -.9041 RTF -.8201 CRT .6612 CRS -.8738 CST -.8270
 FDE -.2899 FRA -.1421 FC3-5.8627 BSP 4014 SGB 1328.8 R23 -.1811 R13 -.9072 LSA 375.4 MSA 141.7 SSA 63.6
 BDE .1894 BRA .2990 BC3 1.7110 FSP -1058 SG1 1251.7 SG2 445.9 THA 39.33 EL1 315.5 EL2 141.7 ALF 48.74

LAUNCH DATE FEB 4 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 279.070

RL 147.48 LAL .00 LOL 135.01 VL 27.540 GAL -3.86 AZL 90.25 HCA 124.91 SMA 127.44 ECC .17069 INC .2541 V1 30.211
 RP 108.67 LAP -.21 LOP 259.92 VP 37.432 GAP -5.00 AZP 89.85 TAL 199.37 TAP 324.28 RCA 105.69 APO 149.20 V2 34.873
 RC 68.274 GL -2.02 GP 28.85 ZAL 127.82 ZAP 43.61 ETS 327.94 ZAE 141.19 ETE 40.25 ZAC 122.31 ETC 140.40 CLP -34.24

PLANETOCENTRIC CONIC

C3 11.987 VHL 3.462 DLA .99 RAL 7.37 RAD 6567.5 VEL 11.549 PTH 2.02 VHP 4.763 DPA 41.64 RAP 31.26 ECC 1.1973
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 47 56 2129.77 -17.42 36.18 221.16 112.68 3 23 26 1529.8 -14.20 28.99
 90.00 15 0 37 4712.57 15.78 201.40 220.84 66.18 16 19 9 4112.6 12.43 194.32
 100.00 4 9 44 1865.91 -18.30 16.38 220.77 114.06 4 40 50 1265.9 -14.89 9.24
 100.00 16 21 30 4451.66 16.64 181.80 220.43 64.81 17 35 41 3851.7 13.11 174.79
 110.00 5 19 2 1649.00 -20.62 358.72 219.57 117.89 5 46 31 1049.0 -16.73 351.75
 110.00 17 28 41 4241.33 18.95 164.60 219.19 61.00 18 39 22 3641.3 14.93 157.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0954 TRA -.2716 TC3 1.2195 BAU .2910 SGT 969.6 SGR 971.6 SG3 387.4 ST 209.2 SR 201.1 SS 290.9
 RDE -.1148 RRA .1198 RC3 1.3459 FAU .08843 RRT .7726 RRF -.9279 RTF -.8072 CRT .5395 CRS -.8638 CST -.7850
 FDE -.4170 FRA -.1567 FC3-6.3869 BSP 4140 SGB 1372.6 R23 -.1782 R13 -.9216 LSA 380.7 MSA 140.8 SSA 63.9
 BDE .1493 BRA .2969 BC3 1.8162 FSP -1159 SG1 1292.2 SG2 462.8 THA 45.08 EL1 254.7 EL2 139.1 ALF 42.90

LAUNCH DATE FEB 4 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 285.593

RL 147.48 LAL .00 LOL 135.01 VL 27.592 GAL -3.90 AZL 90.50 HCA 128.08 SMA 127.80 ECC .16798 INC .5028 V1 30.211
 RP 108.70 LAP -.40 LOP 263.09 VP 37.462 GAP -4.45 AZP 89.69 TAL 199.96 TAP 328.04 RCA 106.33 APO 149.27 V2 34.862
 RC 70.456 GL -4.03 GP 31.50 ZAL 128.51 ZAP 47.80 ETS 329.57 ZAE 140.42 ETE 45.17 ZAC 120.12 ETC 139.80 CLP -38.01

PLANETOCENTRIC CONIC

C3 11.842 VHL 3.441 DLA -1.16 RAL 7.45 RAD 6567.5 VEL 11.543 PTH 2.01 VHP 4.590 DPA 43.78 RAP 29.03 ECC 1.1949
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 11 2060.54 -15.56 31.96 220.72 113.96 3 38 31 1460.5 -12.19 24.90
 90.00 14 44 58 4776.69 17.50 205.31 221.10 67.38 16 4 35 4176.7 14.28 198.11
 100.00 4 24 59 1799.90 -16.42 12.38 220.31 115.34 4 54 59 1199.9 -12.87 5.39
 100.00 16 6 51 4512.57 18.37 185.50 220.71 66.00 17 22 4 3912.6 14.97 178.35
 110.00 5 31 59 1590.16 -18.71 355.22 219.07 119.14 5 58 29 990.2 -14.68 348.42
 110.00 17 16 20 4295.07 20.69 167.79 219.51 62.16 18 27 55 3695.1 16.80 160.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0788 TRA -.2714 TC3 1.1435 BAU .3056 SGT 917.0 SGR 1095.3 SG3 416.5 ST 190.2 SR 136.8 SS 376.8
 RDE -.0712 RRA .1208 RC3 1.5548 FAU .09383 RRT .7635 RRF -.9460 RTF -.7855 CRT .3126 CRS -.7814 CST -.7215
 FDE -.5623 FRA -.1601 FC3-6.8593 BSP 4300 SGB 1428.5 R23 -.1648 R13 -.9367 LSA 416.7 MSA 140.8 SSA 58.8
 BDE .1062 BRA .2971 BC3 1.9300 FSP -1256 SG1 1344.5 SG2 482.4 THA 51.58 EL1 198.4 EL2 124.6 ALF 21.49

LAUNCH DATE FEB 4 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 292.090

RL 147.48 LAL .00 LOL 135.01 VL 27.637 GAL -3.92 AZL 90.77 HCA 131.25 SMA 128.10 ECC .16564 INC .7736 V1 30.211
 RP 108.73 LAP -.58 LOP 266.26 VP 37.486 GAP -3.92 AZP 89.49 TAL 200.46 TAP 331.70 RCA 106.88 APO 149.32 V2 34.853
 RC 72.672 GL -6.23 GP 34.37 ZAL 128.99 ZAP 52.19 ETS 331.35 ZAE 139.40 ETE 50.49 ZAC 117.62 ETC 139.46 CLP -42.03

PLANETOCENTRIC CONIC

C3 11.761 VHL 3.429 DLA -3.44 RAL 7.74 RAD 6567.4 VEL 11.539 PTH 2.01 VHP 4.453 DPA 45.99 RAP 26.26 ECC 1.1936
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 17 1988.27 -13.51 27.64 220.64 115.12 3 55 26 1388.3 -10.02 20.70
 90.00 14 29 9 4846.08 19.26 209.64 221.76 68.83 15 49 55 4246.1 16.22 202.29
 100.00 4 42 1 1731.06 -14.37 8.30 220.21 116.50 5 10 52 1131.1 -10.70 1.43
 100.00 15 52 6 4578.51 20.14 189.59 221.38 67.44 17 8 25 3978.5 16.91 182.29
 110.00 5 46 34 1528.98 -16.64 351.68 218.93 120.30 6 12 3 929.0 -12.49 345.03
 110.00 17 4 2 4353.36 22.50 171.35 220.23 63.56 18 16 36 3753.4 18.76 164.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0653 TRA -.2728 TC3 1.0353 BAU .3238 SGT 851.2 SGR 1237.6 SG3 442.8 ST 176.5 SR 75.8 SS 472.4
 RDE -.0169 RRA .1197 RC3 1.7800 FAU .09848 RRT .7390 RRF -.9597 RTF -.7521 CRT -.3266 CRS -.2607 CST -.6467
 FDE -.7280 FRA -.1524 FC3-7.2493 BSP 4539 SGB 1502.0 R23 -.1397 R13 -.9516 LSA 487.4 MSA 141.5 SSA 50.0
 BDE .0675 BRA .2979 BC3 2.0592 FSP -1350 SG1 1415.9 SG2 501.2 THA 58.70 EL1 178.5 EL2 70.9 ALF 170.50

LAUNCH DATE FEB 4 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 298.561

RL 147.48 LAL .00 LOL 135.01 VL 27.675 GAL -3.93 AZL 91.07 HCA 134.41 SMA 128.36 ECC .16365 INC 1.0721 V1 30.211
 RP 108.76 LAP -.77 LOP 269.42 VP 37.505 GAP -3.41 AZP 89.25 TAL 200.86 TAP 335.27 RCA 107.36 APO 149.37 V2 34.844
 RC 74.919 GL -8.67 GP 37.45 ZAL 129.22 ZAP 56.74 ETS 333.34 ZAE 138.06 ETE 56.14 ZAC 114.84 ETC 139.41 CLP -46.31

PLANETOCENTRIC CONIC

C3 11.748 VHL 3.428 DLA -5.88 RAL 8.25 RAD 6567.4 VEL 11.538 PTH 2.01 VHP 4.357 DPA 48.23 RAP 22.90 ECC 1.1933
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 42 41 1911.84 -11.26 23.15 220.95 116.15 4 14 33 1311.8 -7.65 16.33
 90.00 14 12 52 4922.06 21.06 214.49 222.84 70.62 15 34 54 4322.1 18.22 206.97
 100.00 5 1 15 1658.42 -12.12 4.07 220.50 117.53 5 28 53 1058.4 -8.34 357.33
 100.00 15 37 0 4650.72 21.96 194.18 222.49 69.20 16 54 30 4050.7 18.94 186.69
 110.00 6 3 7 1464.71 -14.40 348.05 219.18 121.34 6 27 32 864.7 -10.15 341.53
 110.00 16 51 37 4417.19 24.38 175.35 221.38 65.26 18 5 14 3817.2 20.83 168.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0800 TRA -.2781 TC3 .8835 BAU .3449 SGT 771.5 SGR 1393.8 SG3 463.0 ST 173.3 SR 107.9 SS 572.5
 RDE .0488 RRA .1138 RC3 2.0105 FAU .10169 RRT .6856 RRF -.9697 RTF -.6921 CRT -.8269 CRS .8116 CST -.5981
 FDE -.9043 FRA -.1248 FC3-7.4935 BSP 4812 SGB 1593.1 R23 -.1088 R13 -.9644 LSA 589.3 MSA 143.3 SSA 40.6
 BDE .0773 BRA .3004 BC3 2.1961 FSP -1422 SG1 1505.9 SG2 519.9 THA 66.21 EL1 197.1 EL2 53.4 ALF 150.37

LAUNCH DATE FEB 4 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 305.006

RL 147.48 LAL .00 LOL 135.01 VL 27.706 GAL -3.94 AZL 91.40 HCA 137.58 SMA 128.58 ECC .16195 INC 1.4045 V1 30.211
 RP 108.78 LAP -.95 LOP 272.59 VP 37.520 GAP -2.92 AZP 88.96 TAL 201.16 TAP 338.74 RCA 107.75 APO 149.40 V2 34.835
 RC 77.194 GL -11.37 GP 40.71 ZAL 129.18 ZAP 61.41 ETS 335.62 ZAE 136.33 ETE 62.00 ZAC 111.81 ETC 139.68 CLP -50.86

PLANETOCENTRIC CONIC

C3 11.818 VHL 3.438 CLA -8.49 RAL 9.02 RAD 6567.5 VEL 11.541 PTH 2.01 VHP 4.305 DPA 50.46 RAP 18.90 ECC 1.1945
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 58 1829.83 -8.76 18.43 221.71 117.04 4 36 27 1229.8 -5.06 11.70
 90.00 13 55 42 5006.54 22.86 220.03 224.42 72.82 15 19 8 4406.5 20.30 212.30
 100.00 5 23 11 1580.70 -9.64 359.64 221.24 118.43 5 49 32 980.7 -5.76 352.99
 100.00 15 21 9 4730.90 23.81 199.43 224.09 71.37 16 40 0 4130.9 21.04 191.72
 110.00 6 22 2 1396.41 -11.95 344.28 219.87 122.27 6 45 19 796.4 -7.60 337.88
 110.00 16 38 47 4487.95 26.31 179.94 223.05 67.35 17 53 35 3888.0 23.01 172.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0645 TRA -.2854 TC3 .6914 BAU .3699
 RDE .1284 RRA .1012 RC3 2.2367 FAU .10309
 FDE -1.0869 FRA -.0764 FC3-7.5523 BSP 5148
 BDE .1437 BRA .3028 BC3 2.3412 FSP -1469

SGT 684.7 SGR 1562.0 SG3 475.3
 RRT .5853 RRF -.9770 RTF -.5872
 SGB 1705.5 R23 -.0748 R13 -.9743
 SG1 1619.2 SG2 535.5 TMA 73.79

ST 180.5 SR 224.8 SS 676.5
 CRT -.7326 CRS .9706 CST -.6035
 LSA 720.0 MSA 145.8 SSA 32.3
 EL1 269.5 EL2 102.5 ALF 126.60

LAUNCH DATE FEB 4 1969

FLIGHT TIME 112.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 311.423

RL 147.48 LAL .00 LOL 135.01 VL 27.731 GAL -3.93 AZL 91.78 HCA 140.74 SMA 128.75 ECC .16052 INC 1.7795 V1 30.211
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.531 GAP -2.45 AZP 88.62 TAL 201.37 TAP 342.10 RCA 108.08 APO 149.42 V2 34.827
 RC 79.493 GL -14.37 GP 44.12 ZAL 128.83 ZAP 66.11 ETS 338.26 ZAE 134.17 ETE 67.94 ZAC 108.58 ETC 140.29 CLP -55.67

PLANETOCENTRIC CONIC

C3 11.990 VHL 3.463 CLA -11.32 RAL 10.05 RAD 6567.5 VEL 11.549 PTH 2.02 VHP 4.302 DPA 52.63 RAP 14.23 ECC 1.1973
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 55 1740.25 -5.95 13.34 223.01 117.74 5 1 55 1140.3 -2.19 6.68
 90.00 13 37 0 5102.18 24.64 226.48 226.59 75.58 15 2 3 4502.2 22.41 218.51
 100.00 5 48 34 1496.22 -6.86 354.90 222.51 119.16 6 13 30 896.2 -2.92 348.33
 100.00 15 4 3 4821.46 25.64 205.53 226.29 74.08 16 24 25 4221.5 23.21 197.57
 110.00 6 43 54 1322.92 -9.25 340.30 221.06 123.06 7 5 57 722.9 -4.83 334.00
 110.00 16 25 12 4567.51 28.29 185.28 225.32 69.96 17 41 20 3967.5 25.29 177.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0808 TRA -.2916 TC3 .4663 BAU .3994
 RDE .2260 RRA .0814 RC3 2.4480 FAU .10251
 FDE -1.2731 FRA -.0133 FC3-7.4018 BSP 5590
 BDE .2400 BRA .3028 BC3 2.4920 FSP -1492

SGT 603.6 SGR 1741.5 SG3 478.8
 RRT .4089 RRF -.9823 RTF -.4073
 SGB 1843.1 R23 -.0416 R13 -.9815
 SG1 1760.8 SG2 544.8 TMA 81.07

ST 199.4 SR 379.7 SS 785.1
 CRT -.7343 CRS .9925 CST -.6676
 LSA 881.9 MSA 148.0 SSA 25.5
 EL1 410.2 EL2 125.3 ALF 113.41

LAUNCH DATE FEB 4 1969

FLIGHT TIME 114.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 317.815

RL 147.48 LAL .00 LOL 135.01 VL 27.750 GAL -3.92 AZL 92.21 HCA 143.89 SMA 128.88 ECC .15933 INC 2.2088 V1 30.211
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.539 GAP -2.00 AZP 88.22 TAL 201.48 TAP 345.37 RCA 108.35 APO 149.42 V2 34.820
 RC 81.813 GL -17.71 GP 47.65 ZAL 128.11 ZAP 70.76 ETS 341.29 ZAE 131.59 ETE 73.85 ZAC 105.21 ETC 141.25 CLP -60.72

PLANETOCENTRIC CONIC

C3 12.298 VHL 3.507 CLA -14.40 RAL 11.40 RAD 6567.5 VEL 11.562 PTH 2.02 VHP 4.354 DPA 54.70 RAP 8.91 ECC 1.2024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 48 1640.24 -2.76 7.73 224.97 118.19 5 32 8 1040.2 1.03 1.10
 90.00 13 15 51 5212.94 26.29 234.16 229.43 79.09 14 42 44 4612.9 24.52 225.94
 100.00 6 18 27 1402.61 -3.73 349.72 224.43 119.68 6 41 50 802.6 .25 343.19
 100.00 14 44 54 4925.81 27.38 212.79 229.18 77.52 16 6 59 4325.8 25.39 204.56
 110.00 7 9 29 1242.76 -6.24 336.04 222.88 123.68 7 30 12 642.8 -1.78 329.80
 110.00 16 10 21 4658.41 30.24 191.63 228.33 73.25 17 27 59 4058.4 27.65 183.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1160 TRA -.2971 TC3 .2064 BAU .4316
 RDE .3422 RRA .0493 RC3 2.6170 FAU .09934
 FDE -1.4460 FRA .0709 FC3-6.9933 BSP 6076
 BDE .3613 BRA .3012 BC3 2.6252 FSP -1473

SGT 555.0 SGR 1920.6 SG3 470.5
 RRT .1107 RRF -.9862 RTF -.1066
 SGB 1999.2 R23 -.0125 R13 -.9861
 SG1 1921.7 SG2 551.3 TMA 88.00

ST 241.9 SR 562.3 SS 890.5
 CRT -.8045 CRS .9976 CST -.7711
 LSA 1069.8 MSA 151.0 SSA 20.0
 EL1 597.0 EL2 135.3 ALF 110.18

LAUNCH DATE FEB 4 1969

FLIGHT TIME 116.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 324.179

RL 147.48 LAL .00 LOL 135.01 VL 27.764 GAL -3.89 AZL 92.71 HCA 147.05 SMA 128.98 ECC .15835 INC 2.7078 V1 30.211
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.543 GAP -1.56 AZP 87.73 TAL 201.49 TAP 348.54 RCA 108.56 APO 149.41 V2 34.813
 RC 84.153 GL -21.46 GP 51.28 ZAL 127.00 ZAP 75.25 ETS 344.78 ZAE 128.59 ETE 79.62 ZAC 101.77 ETC 142.56 CLP -65.99

PLANETOCENTRIC CONIC

C3 12.798 VHL 3.577 CLA -17.77 RAL 13.10 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 4.470 DPA 56.63 RAP 2.94 ECC 1.2106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 39 1524.97 .96 1.30 227.80 118.30 6 9 4 925.0 4.74 354.65
 90.00 12 50 34 5345.21 27.65 243.60 233.09 83.63 14 19 39 4745.2 26.48 235.13
 100.00 6 54 34 1296.13 -.13 343.87 227.19 119.89 7 16 10 696.1 3.85 337.34
 100.00 14 22 20 5049.30 28.89 221.66 232.91 81.95 15 46 29 4449.3 27.47 213.14
 110.00 7 39 59 1153.87 -2.87 331.37 225.48 124.08 7 59 12 553.9 1.62 325.16
 110.00 15 53 25 4764.31 32.07 199.34 232.24 77.47 17 12 49 4164.3 30.01 190.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1738 TRA -.2968 TC3 -.0693 BAU .4667
 RDE .4818 RRA .0039 RC3 2.7267 FAU .09383
 FDE -1.6014 FRA .1658 FC3-6.3471 BSP 6653
 BDE .5121 BRA .2968 BC3 2.7276 FSP -1423

SGT 573.7 SGR 2098.0 SG3 451.3
 RRT -.2615 RRF -.9890 RTF .2669
 SGB 2175.0 R23 .0114 R13 -.9889
 SG1 2103.7 SG2 552.2 TMA 94.39

ST 316.1 SR 773.8 SS 992.3
 CRT -.8797 CRS .9991 CST -.8637
 LSA 1288.2 MSA 153.5 SSA 15.8
 EL1 823.9 EL2 141.2 ALF 110.39

LAUNCH DATE FEB 4 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 330.517

RL 147.48 LAL .00 LOL 135.01 VL 27.774 GAL -3.85 AZL 93.30 MCA 150.20 SMA 129.05 ECC .15756 INC 3.2994 V1 30.211
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.544 GAP -1.14 AZP 87.14 TAL 201.40 TAP 351.60 RCA 108.71 APO 149.38 V2 34.807
 RC 86.508 GL -25.65 GP 54.99 ZAL 125.42 ZAP 79.48 ETS 348.75 ZAE 125.22 ETE 85.21 ZAC 98.31 ETC 144.23 CLP -71.45

PLANETOCENTRIC CONIC

C3 13.578 VHL 3.685 DLA -21.46 RAL 15.21 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 4.661 OPA 58.39 RAP 356.35 ECC 1.2235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 26 1384.53 5.47 353.44 231.83 117.83 6 56 30 784.5 9.15 346.69
 90.00 12 17 41 5511.25 28.32 255.69 237.62 89.65 13 49 32 4911.3 27.97 247.04
 100.00 7 39 59 1169.71 4.15 336.92 231.11 119.63 7 59 29 569.7 8.07 330.32
 100.00 13 53 48 5201.31 29.82 232.85 237.58 87.77 15 20 29 4601.3 29.19 224.10
 110.00 8 17 12 1053.06 .98 326.11 229.13 124.17 8 34 45 453.1 5.46 319.88
 110.00 15 33 4 4890.73 33.54 208.91 237.23 82.95 16 54 35 4290.7 32.20 199.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2636 TRA -.2880 TC3 -.3476 BAU .5017
 RDE .6459 RRA -.0608 RC3 2.7420 FAU .08580
 FDE -1.7237 FRA .2717 FC3 -5.4703 BSP 7240
 BDE .6977 BRA .2944 BC3 2.7639 FSP -1329

SGT 682.0 SGR 2258.9 SG3 420.1
 RRT -.5715 RRF -.9910 RTF .5768
 SGB 2359.6 R23 .0309 R13 -.9906
 SG1 2294.4 SG2 551.0 THA 100.40

ST 434.6 SR 1006.7 SS 1081.8
 CRT -.9319 CRS .9997 CST -.9248
 LSA 1532.3 MSA 156.6 SSA 12.4
 EL1 1086.7 EL2 146.0 ALF 112.34

LAUNCH DATE FEB 4 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 336.828

RL 147.48 LAL .00 LOL 135.01 VL 27.779 GAL -3.81 AZL 94.02 MCA 153.35 SMA 129.08 ECC .15694 INC 4.0164 V1 30.211
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.543 GAP -.74 AZP 86.41 TAL 201.22 TAP 354.57 RCA 108.82 APO 149.34 V2 34.802
 RC 88.877 GL -30.32 GP 58.77 ZAL 123.33 ZAP 83.34 ETS 353.22 ZAE 121.50 ETE 90.60 ZAC 94.89 ETC 146.25 CLP -77.07

PLANETOCENTRIC CONIC

C3 14.787 VHL 3.845 DLA -25.50 RAL 17.83 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 4.946 OPA 59.99 RAP 349.16 ECC 1.2434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 45 20 1187.56 11.56 342.18 237.77 116.03 8 5 7 587.6 14.97 335.16
 90.00 11 26 37 5745.85 27.23 272.74 242.85 98.10 13 2 23 5145.8 28.07 264.17
 100.00 8 41 56 1004.81 9.61 327.73 236.75 118.44 8 58 41 404.8 13.34 320.92
 100.00 13 12 43 5403.83 29.40 247.87 243.15 95.64 14 42 46 4803.8 29.87 239.10
 110.00 9 4 29 934.08 5.52 319.88 234.26 123.79 9 20 3 334.1 9.92 313.56
 110.00 15 6 39 5047.32 34.18 221.08 243.43 90.12 16 30 47 4447.3 33.82 211.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3949 TRA -.2636 TC3 -.5990 BAU .5359
 RDE .8397 RRA -.1482 RC3 2.6436 FAU .07583
 FDE -1.8076 FRA .3779 FC3 -4.4396 BSP 7853
 BDE .9279 BRA .3024 BC3 2.7106 FSP -1203

SGT 864.7 SGR 2399.8 SG3 379.6
 RRT -.7548 RRF -.9925 RTF .7597
 SGB 2550.8 R23 .0463 R13 -.9916
 SG1 2491.6 SG2 546.3 THA 106.01

ST 602.9 SR 1254.8 SS 1154.6
 CRT -.9616 CRS .9999 CST -.9588
 LSA 1801.5 MSA 159.3 SSA 9.7
 EL1 1384.0 EL2 150.0 ALF 115.11

LAUNCH DATE FEB 4 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 343.110

RL 147.48 LAL .00 LOL 135.01 VL 27.780 GAL -3.75 AZL 94.91 MCA 156.49 SMA 129.09 ECC .15647 INC 4.9094 V1 30.211
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.539 GAP -.35 AZP 85.50 TAL 200.95 TAP 357.44 RCA 108.89 APO 149.29 V2 34.797
 RC 91.256 GL -35.50 GP 62.66 ZAL 120.69 ZAP 86.72 ETS 358.22 ZAE 117.46 ETE 95.84 ZAC 91.52 ETC 148.66 CLP -82.84

PLANETOCENTRIC CONIC

C3 16.687 VHL 4.085 DLA -29.86 RAL 21.05 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 5.354 OPA 61.43 RAP 341.31 ECC 1.2746
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.09 8 28 8 1110.35 21.71 341.14 247.14 111.03 8 46 38 510.4 24.37 333.36
 99.91 11 9 32 5877.73 21.72 280.77 247.15 111.02 12 47 29 5277.7 24.38 272.99
 100.00 10 59 14 622.58 20.86 304.95 246.79 111.91 11 9 36 22.6 23.65 297.26
 100.00 11 21 7 5840.74 22.57 278.36 247.49 110.14 12 58 28 5240.7 25.11 270.49
 110.00 10 9 39 779.31 11.29 311.61 241.68 122.48 10 22 38 179.3 15.49 305.03
 110.00 14 27 11 5256.77 32.96 237.27 250.61 99.61 15 54 48 4656.8 33.94 228.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5827 TRA -.2143 TC3 -.7915 BAU .5677
 RDE 1.0704 RRA -.2609 RC3 2.4188 FAU .06460
 FDE -1.8505 FRA .4729 FC3 -3.3514 BSP 8514
 BDE 1.2187 BRA .3377 BC3 2.5450 FSP -1060

SGT 1098.3 SGR 2517.4 SG3 332.6
 RRT -.8531 RRF -.9938 RTF .8578
 SGB 2746.6 R23 .0576 R13 -.9923
 SG1 2693.8 SG2 535.6 THA 111.30

ST 824.2 SR 1507.8 SS 1205.8
 CRT -.9778 CRS 1.0000 CST -.9770
 LSA 2093.1 MSA 160.4 SSA 7.6
 EL1 1711.6 EL2 152.2 ALF 118.37

LAUNCH DATE FEB 4 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 349.363

RL 147.48 LAL .00 LOL 135.01 VL 27.777 GAL -3.68 AZL 96.06 MCA 159.62 SMA 129.07 ECC .15613 INC 6.0596 V1 30.211
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.533 GAP .03 AZP 84.32 TAL 200.59 TAP .21 RCA 108.92 APO 149.22 V2 34.793
 RC 93.644 GL -41.17 GP 66.72 ZAL 117.47 ZAP 89.53 ETS 3.85 ZAE 113.10 ETE 101.08 ZAC 88.23 ETC 151.56 CLP -88.82

PLANETOCENTRIC CONIC

C3 19.762 VHL 4.445 DLA -34.49 RAL 25.02 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 5.930 OPA 62.69 RAP 332.69 ECC 1.3252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.43 7 31 36 1376.11 23.73 2.30 255.24 115.81 7 54 32 776.1 26.99 354.63
 110.57 12 37 44 5690.99 23.74 267.53 255.24 115.79 14 12 35 5091.0 27.01 259.87
 69.43 7 31 36 1376.11 23.73 2.30 255.24 115.81 7 54 32 776.1 26.99 354.63
 110.57 12 37 44 5690.99 23.74 267.53 255.24 115.79 14 12 35 5091.0 27.01 259.87
 69.43 7 31 36 1376.11 23.73 2.30 255.24 115.81 7 54 32 776.1 26.99 354.63
 110.57 12 37 44 5690.99 23.74 267.53 255.24 115.79 14 12 35 5091.0 27.01 259.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8521 TRA -.1255 TC3 -.8959 BAU .5911
 RDE 1.3369 RRA -.4145 RC3 2.0502 FAU .05230
 FDE -1.8391 FRA .5619 FC3 -2.2910 BSP 9054
 BDE 1.5853 BRA .4331 BC3 2.2374 FSP -887

SGT 1370.9 SGR 2590.7 SG3 280.5
 RRT -.9058 RRF -.9948 RTF .9108
 SGB 2931.0 R23 .0668 R13 -.9924
 SG1 2884.2 SG2 521.6 THA 116.55

ST 1100.1 SR 1734.8 SS 1222.4
 CRT -.9862 CRS 1.0000 CST -.9865
 LSA 2385.0 MSA 161.3 SSA 5.8
 EL1 2048.5 EL2 154.1 ALF 122.23

LAUNCH DATE FEB 4 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 27.771 GAL -3.60 AZL 97.61 HCA 162.74 SMA 129.03 ECC .15591 INC 7.6061 V1 30.211
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.526 GAP .39 AZP 82.73 TAL 200.13 TAP 2.88 RCA 108.91 APO 149.14 V2 34.789
 RC 96.038 GL -47.21 GP 71.05 ZAL 113.72 ZAP 91.70 ETS 10.37 ZAE 108.38 ETE 106.67 ZAC 84.96 ETC 155.26 CLP -95.23

PLANETOCENTRIC CONIC
 C3 24.994 VHL 4.999 OLA -39.22 RAL 29.91 RAD 6568.0 VEL 12.098 PTH 2.17 VHP 6.760 DPA 63.72 RAP 323.01 ECC 1.4113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.64 7 9 51 1554.68 24.72 17.32 265.55 121.48 7 35 46 954.7 28.69 9.96
 118.36 13 38 27 5626.19 24.73 262.90 265.56 121.47 15 12 13 5026.2 28.71 255.54
 61.64 7 9 51 1554.68 24.72 17.32 265.55 121.48 7 35 46 954.7 28.69 9.96
 118.36 13 38 27 5626.19 24.73 262.90 265.56 121.47 15 12 13 5026.2 28.71 255.54
 61.64 7 9 51 1554.68 24.72 17.32 265.55 121.48 7 35 46 954.7 28.69 9.96
 118.36 13 38 27 5626.19 24.73 262.90 265.56 121.47 15 12 13 5026.2 28.71 255.54

DIFFERENTIAL CORRECTIONS
 TDE-1.2445 TRA .0298 TC3 -.8889 BAU .6078 SGT 1681.0 SGR 2629.0 SG3 228.7 ST 1426.5 SR 1914.8 SS 1208.3
 RDE 1.6538 RRA -.6051 RC3 1.5870 FAU .04037 RRT -.9397 RRF -.9957 RTF .9453 CRT -.9914 CRS 1.0000 CST -.9922
 FDE-1.7886 FRA .6236 FC3-1.3983 BSP 9754 SGB 3120.5 R23 .0700 R13 -.9936 LSA 2671.5 MSA 156.5 SSA 4.4
 BDE 2.0697 BRA .6059 BC3 1.8189 FSP -730 SG1 3081.7 SG2 490.5 THA 121.90 EL1 2383.0 EL2 150.4 ALF 126.62

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 4 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 27.761 GAL -3.50 AZL 99.81 HCA 165.85 SMA 128.96 ECC .15579 INC 9.8090 V1 30.211
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.516 GAP .73 AZP 80.48 TAL 199.58 TAP 5.43 RCA 108.87 APO 149.05 V2 34.787
 RC 98.436 GL -53.39 GP 75.78 ZAL 109.51 ZAP 93.14 ETS 18.55 ZAE 103.19 ETE 113.48 ZAC 81.62 ETC 160.62 CLP-102.87

PLANETOCENTRIC CONIC
 C3 34.582 VHL 5.881 OLA -43.75 RAL 35.86 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 8.001 DPA 64.38 RAP 311.90 ECC 1.5691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.14 7 5 29 1713.55 23.91 30.45 278.26 127.80 7 34 2 1113.5 28.64 23.67
 124.86 14 30 20 5629.67 23.92 262.58 278.27 127.79 16 4 10 5029.7 28.65 255.80
 55.14 7 5 29 1713.55 23.91 30.45 278.26 127.80 7 34 2 1113.5 28.64 23.67
 124.86 14 30 20 5629.67 23.92 262.58 278.27 127.79 16 4 10 5029.7 28.65 255.80
 55.14 7 5 29 1713.55 23.91 30.45 278.26 127.80 7 34 2 1113.5 28.64 23.67
 124.86 14 30 20 5629.67 23.92 262.58 278.27 127.79 16 4 10 5029.7 28.65 255.80

DIFFERENTIAL CORRECTIONS
 TDE-1.8453 TRA .3148 TC3 -.7675 BAU .6010 SGT 2056.1 SGR 2569.8 SG3 178.1 ST 1802.6 SR 1967.5 SS 1153.3
 RDE 1.9875 RRA -.8555 RC3 1.0491 FAU .02867 RRT -.9624 RRF -.9965 RTF .9689 CRT -.9944 CRS .9999 CST -.9956
 FDE-1.6890 FRA .6755 FC3 -.7176 BSP 10302 SGB 3291.1 R23 .0698 R13 -.9947 LSA 2903.3 MSA 146.2 SSA 3.3
 BDE 2.7120 BRA .9116 BC3 1.2998 FSP -567 SG1 3261.5 SG2 439.8 THA 128.42 EL1 2664.7 EL2 141.1 ALF 132.48

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 4 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 27.749 GAL -3.39 AZL 103.21 HCA 168.92 SMA 128.88 ECC .15575 INC13.2110 V1 30.211
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.505 GAP 1.06 AZP 77.03 TAL 198.93 TAP 7.85 RCA 108.80 APO 148.95 V2 34.785
 RC 100.837 GL -59.28 GP 81.11 ZAL 105.03 ZAP 93.81 ETS 31.36 ZAE 97.26 ETE 124.62 ZAC 78.00 ETC 170.75 CLP-115.44

PLANETOCENTRIC CONIC
 C3 54.233 VHL 7.364 OLA -47.54 RAL 42.89 RAD 6569.0 VEL 13.251 PTH 2.42 VHP 9.985 DPA 64.30 RAP 298.86 ECC 1.8925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.07 7 14 41 1875.04 20.39 42.20 292.98 133.93 7 45 57 1275.0 25.82 36.22
 129.93 15 17 11 5694.21 20.41 265.30 293.00 133.92 16 52 6 5094.2 25.84 259.32
 50.07 7 14 41 1875.04 20.39 42.20 292.98 133.93 7 45 57 1275.0 25.82 36.22
 129.93 15 17 11 5694.21 20.41 265.30 293.00 133.92 16 52 6 5094.2 25.84 259.32
 50.07 7 14 41 1875.04 20.39 42.20 292.98 133.93 7 45 57 1275.0 25.82 36.22
 129.93 15 17 11 5694.21 20.41 265.30 293.00 133.92 16 52 6 5094.2 25.84 259.32

DIFFERENTIAL CORRECTIONS
 TDE-2.8753 TRA .9059 TC3 -.5547 BAU .5494 SGT 2600.4 SGR 2261.2 SG3 132.6 ST 2259.0 SR 1744.0 SS 1073.7
 RDE 2.1863 RRA -1.1118 RC3 .5162 FAU .01791 RRT -.9803 RRF -.9969 RTF .9871 CRT -.9965 CRS .9998 CST -.9980
 FDE-1.5671 FRA .7222 FC3 -.2858 BSP 10799 SGB 3446.0 R23 .0632 R13 -.9961 LSA 3046.8 MSA 119.1 SSA 2.3
 BDE 3.6121 BRA 1.4341 BC3 .7577 FSP -422 SG1 3429.4 SG2 338.8 THA 139.07 EL1 2851.6 EL2 114.8 ALF 142.36

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 4 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 27.734 GAL -3.26 AZL 109.14 HCA 171.93 SMA 128.77 ECC .15573 INC19.1429 V1 30.211
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.493 GAP 1.35 AZP 71.03 TAL 198.13 TAP 10.06 RCA 108.72 APO 148.83 V2 34.784
 RC 103.240 GL -63.89 GP 86.23 ZAL 100.50 ZAP 93.68 ETS 65.15 ZAE 89.97 ETE 156.61 ZAC 73.59 ETC 202.30 CLP-167.96

PLANETOCENTRIC CONIC
 C3 102.256 VHL 10.112 OLA -49.68 RAL 50.44 RAD 6570.0 VEL 14.953 PTH 2.70 VHP 13.525 DPA 62.65 RAP 283.50 ECC 2.6829
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.31 7 35 34 2044.67 13.76 51.70 308.43 138.22 8 9 38 1444.7 19.65 46.47
 132.69 15 56 35 5818.72 13.77 270.35 308.45 138.22 17 33 34 5218.7 19.67 265.12
 47.31 7 35 34 2044.67 13.76 51.70 308.43 138.22 8 9 38 1444.7 19.65 46.47
 132.69 15 56 35 5818.72 13.77 270.35 308.45 138.22 17 33 34 5218.7 19.67 265.12
 47.31 7 35 34 2044.67 13.76 51.70 308.43 138.22 8 9 38 1444.7 19.65 46.47
 132.69 15 56 35 5818.72 13.77 270.35 308.45 138.22 17 33 34 5218.7 19.67 265.12

DIFFERENTIAL CORRECTIONS
 TDE-4.9609 TRA 2.3425 TC3 -.2686 BAU .3771 SGT 3521.8 SGR 599.7 SG3 95.2 ST 2877.5 SR 349.9 SS 1009.5
 RDE .5597 RRA -.5630 RC3 .0627 FAU .00769 RRT -.9334 RRF -.9524 RTF .9971 CRT -.9757 CRS .9821 CST -.9995
 FDE-1.4783 FRA .8047 FC3 -.0651 BSP 11216 SGB 3572.5 R23 .0510 R13 -.9976 LSA 3068.4 MSA 80.8 SSA 1.7
 BDE 4.9924 BRA 2.4092 BC3 .2758 FSP -303 SG1 3566.2 SG2 212.5 THA 170.94 EL1 2897.7 EL2 76.1 ALF 173.23

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 4 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 379.743

RL 147.48 LAL .00 LOL 135.01 VL 27.717 GAL -3.07 AZL 121.69 HCA 174.76 SMA 128.65 ECC .15560 INC31.6882 V1 30.211
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.480 GAP 1.58 AZP 58.42 TAL 197.07 TAP 11.82 RCA 108.64 APO 148.67 V2 34.783
 RC 105.643 GL -64.66 GP 79.84 ZAL 96.26 ZAP 92.82 ETS 144.45 ZAE 79.37 ETE 234.12 ZAC 66.92 ETC 280.71 CLP 106.18

PLANETOCENTRIC CONIC

C3 258.785 VHL 16.087 DLA -48.02 RAL 56.45 RAD 6571.5 VEL 19.496 PTH 3.11 VHP 21.047 DPA 57.20 RAP 265.77 ECC 5.2589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.44 8 6 38 2187.88 5.38 56.45 321.57 137.79 8 43 5 1587.9 11.28 51.40
 130.56 16 13 25 708.36 5.40 300.62 321.58 137.79 16 25 14 108.4 11.29 295.56
 49.44 8 6 38 2187.88 5.38 56.45 321.57 137.79 8 43 5 1587.9 11.28 51.40
 130.56 16 13 25 708.36 5.40 300.62 321.58 137.79 16 25 14 108.4 11.29 295.56
 49.44 8 6 38 2187.88 5.38 56.45 321.57 137.79 8 43 5 1587.9 11.28 51.40
 130.56 16 13 25 708.36 5.40 300.62 321.58 137.79 16 25 14 108.4 11.29 295.56

DIFFERENTIAL CORRECTIONS

TOE -1.3265 TRA 2.1469 TC3 -.0074 BAU .2724
 ROE -7.5015 RRA 4.0259 RC3 .0784 FAU-.00585
 FDE -1.5795 FRA 1.0603 FC3 .0196 BSP 11295
 BDE 7.5086 BRA 4.5626 BC3 .0787 FSP -220

MID-COURSE EXECUTION ACCURACY

SGT 1149.4 SGR 3434.8 SG3 69.1
 RRT .6980 RRF .9939 RTF .7719
 SGB 3622.0 R23 -.0536 R13 .9984
 SG1 3532.5 SG2 800.4 THA 76.13

ORBIT DETERMINATION ACCURACY

ST 362.2 SR 2748.1 SS 1068.4
 CRT .5338 CRS -.9984 CST -.5805
 LSA 2954.5 MSA 309.2 SSA .8
 EL1 2755.0 EL2 305.5 ALF 85.93

LAUNCH DATE FEB 4 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 384.770

RL 147.48 LAL .00 LOL 135.01 VL 27.698 GAL -2.72 AZL 155.51 HCA 176.86 SMA 128.52 ECC .15480 INC65.5079 V1 30.211
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.466 GAP 1.60 AZP 24.52 TAL 195.15 TAP 12.01 RCA 108.63 APO 148.42 V2 34.783
 RC 108.045 GL -53.24 GP 59.49 ZAL 92.89 ZAP 91.51 ETS 171.33 ZAE 58.57 ETE 259.18 ZAC 53.42 ETC 312.86 CLP 92.98

PLANETOCENTRIC CONIC

C3 987.585 VHL 31.426 DLA -35.55 RAL 55.80 RAD 6572.9 VEL 33.300 PTH 3.50 VHP 40.107 DPA 40.60 RAP 246.89 ECC17.2532
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.54 9 23 34 2079.55 -.23 42.15 326.10 125.55 9 58 14 1479.6 4.42 36.05
 112.46 14 51 21 1041.10 -.21 324.34 326.12 125.55 15 8 42 441.1 4.43 318.23
 67.54 9 23 34 2079.55 -.23 42.15 326.10 125.55 9 58 14 1479.6 4.42 36.05
 112.46 14 51 21 1041.10 -.21 324.34 326.12 125.55 15 8 42 441.1 4.43 318.23
 67.54 9 23 34 2079.55 -.23 42.15 326.10 125.55 9 58 14 1479.6 4.42 36.05
 112.46 14 51 21 1041.10 -.21 324.34 326.12 125.55 15 8 42 441.1 4.43 318.23

DIFFERENTIAL CORRECTIONS

TOE 4.7540 TRA -.0777 TC3 -.0688 BAU 2.9336
 ROE -10.5729 RRA 9.5256 RC3 .2113 FAU-.04846
 FDE -2.1372 FRA 1.9934 FC3 .0425 BSP 9755
 BOE11.5925 BRA 9.5260 BC3 .2222 FSP -172

MID-COURSE EXECUTION ACCURACY

SGT 968.8 SGR 3167.9 SG3 56.2
 RRT -.7436 RRF .9998 RTF -.7319
 SGB 3312.8 R23 -.0632 R13 .9980
 SG1 3252.1 SG2 631.0 THA 103.32

ORBIT DETERMINATION ACCURACY

ST 866.9 SR 2031.6 SS 1428.1
 CRT -.9509 CRS -.9999 CST .9476
 LSA 2617.7 MSA 257.6 SSA .4
 EL1 2194.8 EL2 248.4 ALF 112.39

LAUNCH DATE FEB 4 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 394.623

RL 147.48 LAL .00 LOL 135.01 VL 27.677 GAL -3.33 AZL 32.18 HCA 183.49 SMA 128.37 ECC .15950 INC57.8212 V1 30.211
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.451 GAP 2.92 AZP 147.77 TAL 198.02 TAP 21.51 RCA 107.90 APO 148.85 V2 34.784
 RC 110.446 GL 56.28 GP -65.64 ZAL 93.82 ZAP 93.24 ETS 179.92 ZAE 67.17 ETE 93.75 ZAC 83.09 ETC 52.93 CLP 97.89

PLANETOCENTRIC CONIC

C3 790.496 VHL 28.116 DLA 64.08 RAL 357.82 RAD 6572.8 VEL 30.196 PTH 3.45 VHP 34.079 DPA -72.77 RAP 168.20 ECC14.0096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.77 15 15 47 5047.41 -.36 243.01 267.66 25.92 16 39 55 4447.4 -7.55 239.91
 150.23 1 16 33 3338.65 -.35 100.52 267.64 25.92 2 12 11 2738.6 -7.54 97.42
 29.77 15 15 47 5047.41 -.36 243.01 267.66 25.92 16 39 55 4447.4 -7.55 239.91
 150.23 1 16 33 3338.65 -.35 100.52 267.64 25.92 2 12 11 2738.6 -7.54 97.42
 29.77 15 15 47 5047.41 -.36 243.01 267.66 25.92 16 39 55 4447.4 -7.55 239.91
 150.23 1 16 33 3338.65 -.35 100.52 267.64 25.92 2 12 11 2738.6 -7.54 97.42

DIFFERENTIAL CORRECTIONS

TOE -2.8354 TRA 2.0333 TC3 -.0922 BAU 2.4252
 ROE -14.3804 RRA 2.6295 RC3 -.2101 FAU-.03690
 FOE 2.8966 FRA -.5395 FC3 .0404 BSP 11097
 BOE14.6572 BRA 3.3240 BC3 .2295 FSP -190

MID-COURSE EXECUTION ACCURACY

SGT 1225.3 SGR 3389.2 SG3 58.8
 RRT .8351 RRF -.9999 RTF -.8361
 SGB 3603.9 R23 -.0548 R13 -.9984
 SG1 3545.8 SG2 644.2 THA 72.61

ORBIT DETERMINATION ACCURACY

ST 644.2 SR 2953.7 SS 1752.3
 CRT .9452 CRS 1.0000 CST .9459
 LSA 3488.1 MSA 206.8 SSA 1.1
 EL1 3016.1 EL2 206.0 ALF 78.30

LAUNCH DATE FEB 4 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 399.917

RL 147.48 LAL .00 LOL 135.01 VL 27.654 GAL -3.02 AZL 58.76 HCA 185.87 SMA 128.22 ECC .15900 INC31.2436 V1 30.211
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.436 GAP 3.00 AZP 121.11 TAL 196.33 TAP 22.21 RCA 107.83 APO 148.60 V2 34.786
 RC 112.844 GL 64.54 GP -80.68 ZAL 96.24 ZAP 96.12 ETS 199.48 ZAE 84.63 ETE 113.55 ZAC 94.95 ETC 74.38 CLP 131.17

PLANETOCENTRIC CONIC

C3 251.687 VHL 15.865 DLA 66.17 RAL 336.69 RAD 6571.5 VEL 19.313 PTH 3.10 VHP 18.714 DPA -74.79 RAP 101.73 ECC 5.1421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.32 13 45 51 4951.57 -6.87 241.95 243.65 24.01 15 8 22 4351.6 -14.17 239.02
 152.68 23 53 58 3225.29 -6.87 96.70 243.63 24.01 24 47 44 2625.3 -14.16 93.77
 27.32 13 45 51 4951.57 -6.87 241.95 243.65 24.01 15 8 22 4351.6 -14.17 239.02
 152.68 23 53 58 3225.29 -6.87 96.70 243.63 24.01 24 47 44 2625.3 -14.16 93.77
 27.32 13 45 51 4951.57 -6.87 241.95 243.65 24.01 15 8 22 4351.6 -14.17 239.02
 152.68 23 53 58 3225.29 -6.87 96.70 243.63 24.01 24 47 44 2625.3 -14.16 93.77

DIFFERENTIAL CORRECTIONS

TOE 2.1285 TRA .5021 TC3 -.0198 BAU .2975
 ROE -6.8783 RRA 3.3037 RC3 -.0862 FAU-.00219
 FDE 1.7335 FRA -.7117 FC3 .0075 BSP 12499
 BDE 7.2002 BRA 3.3416 BC3 .0884 FSP -252

MID-COURSE EXECUTION ACCURACY

SGT 892.4 SGR 3868.8 SG3 77.1
 RRT -.1642 RRF -.9960 RTF .2438
 SGB 3970.4 R23 -.0723 R13 -.9967
 SG1 3871.7 SG2 879.6 THA 92.29

ORBIT DETERMINATION ACCURACY

ST 780.4 SR 2637.4 SS 1058.3
 CRT -.8698 CRS .9989 CST -.8919
 LSA 2923.3 MSA 372.8 SSA 1.5
 EL1 2725.1 EL2 372.7 ALF 104.71

LAUNCH DATE FEB 4 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 405.733

RL 147.48 LAL .00 LOL 135.01 VL 27.629 GAL -2.81 AZL 69.06 HCA 188.76 SMA 128.05 ECC .15930 INC20.9391 V1 30.211
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.420 GAP 3.22 AZP 110.72 TAL 195.12 TAP 23.88 RCA 107.65 APO 148.44 V2 34.789
 RC 115.239 GL 64.41 GP -79.93 ZAL 98.54 ZAP 99.85 ETS 276.52 ZAE 94.21 ETE 190.48 ZAC 100.57 ETC 152.11 CLP-168.05

PLANETOCENTRIC CONIC

C3 119.573 VHL 10.935 CLA 64.13 RAL 333.91 RAD 6570.2 VEL 15.521 PTH 2.77 VHP 12.590 DPA -69.19 RAP 73.37 ECC 2.9679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.71 13 40 15 4818.53 -14.36 237.05 236.79 26.77 15 0 34 4218.5 -21.46 233.61
 150.29 23 37 22 3109.31 -14.35 94.49 236.77 26.76 24 29 11 2509.3 -21.46 91.04
 29.71 13 40 15 4818.53 -14.36 237.05 236.79 26.77 15 0 34 4218.5 -21.46 233.61
 150.29 23 37 22 3109.31 -14.35 94.49 236.77 26.76 24 29 11 2509.3 -21.46 91.04
 29.71 13 40 15 4818.53 -14.36 237.05 236.79 26.77 15 0 34 4218.5 -21.46 233.61
 150.29 23 37 22 3109.31 -14.35 94.49 236.77 26.76 24 29 11 2509.3 -21.46 91.04

DIFFERENTIAL CORRECTIONS

TDE 4.6613 TRA-2.6447 TC3 -.1902 BAU .3052
 RDE -.2867 RRA -.6786 RC3 .0163 FAU .01242
 FDE 1.5522 FRA -.7627 FC3 -.0900 BSP 13079
 BDE 4.6702 BRA 2.7304 BC3 .1909 FSP -354

MID-COURSE EXECUTION ACCURACY

SGT 4028.3 SGR 829.5 SG3 107.2
 RRT -.8890 RRF -.8510 RTF .9960
 SGB 4112.8 R23 -.0920 R13 -.9946
 SG1 4095.8 SG2 373.6 THA 169.54

ORBIT DETERMINATION ACCURACY

ST 2621.7 SR 287.0 SS 933.9
 CRT -.7974 CRS .7687 CST -.9989
 LSA 2792.1 MSA 178.4 SSA 1.8
 EL1 2631.7 EL2 172.5 ALF 174.99

LAUNCH DATE FEB 4 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 411.676

RL 147.48 LAL .00 LOL 135.01 VL 27.603 GAL -2.62 AZL 74.20 HCA 191.79 SMA 127.87 ECC .15988 INC15.7997 V1 30.211
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.403 GAP 3.48 AZP 105.48 TAL 194.01 TAP 25.80 RCA 107.42 APO 148.31 V2 34.792
 RC 117.630 GL 62.05 GP -73.63 ZAL 100.38 ZAP 104.03 ETS 304.48 ZAE 101.07 ETE 217.72 ZAC 104.10 ETC 180.27 CLP-149.35

PLANETOCENTRIC CONIC

C3 72.232 VHL 8.499 CLA 61.82 RAL 336.59 RAD 6569.4 VEL 13.913 PTH 2.54 VHP 9.624 DPA -63.40 RAP 59.72 ECC 2.1888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.44 13 57 29 4697.52 -20.57 231.46 235.01 30.29 15 15 47 4097.5 -27.42 227.34
 147.56 23 41 34 3010.12 -20.56 92.07 234.99 30.29 24 31 44 2410.1 -27.41 87.95
 32.44 13 57 29 4697.52 -20.57 231.46 235.01 30.29 15 15 47 4097.5 -27.42 227.34
 147.56 23 41 34 3010.12 -20.56 92.07 234.99 30.29 24 31 44 2410.1 -27.41 87.95
 32.44 13 57 29 4697.52 -20.57 231.46 235.01 30.29 15 15 47 4097.5 -27.42 227.34
 147.56 23 41 34 3010.12 -20.56 92.07 234.99 30.29 24 31 44 2410.1 -27.41 87.95

DIFFERENTIAL CORRECTIONS

TDE 3.4014 TRA-2.2701 TC3 -.5460 BAU .5586
 RDE 1.3363 RRA -.5312 RC3 -.1910 FAU .02539
 FDE 1.6278 FRA -.8398 FC3 -.3043 BSP 14823
 BDE 3.6544 BRA 2.3314 BC3 .5784 FSP -549

MID-COURSE EXECUTION ACCURACY

SGT 4077.2 SGR 1221.5 SG3 147.4
 RRT .9688 RRF .9915 RTF .9896
 SGB 4256.2 R23 .1123 R13 .9921
 SG1 4246.3 SG2 290.7 THA 16.26

ORBIT DETERMINATION ACCURACY

ST 2490.8 SR 929.2 SS 960.3
 CRT .9882 CRS -.9976 CST -.9964
 LSA 2822.8 MSA 146.0 SSA 2.2
 EL1 2655.1 EL2 133.4 ALF 20.29

LAUNCH DATE FEB 4 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 417.674

RL 147.48 LAL .00 LOL 135.01 VL 27.575 GAL -2.43 AZL 77.25 HCA 194.88 SMA 127.68 ECC .16061 INC12.7524 V1 30.211
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.387 GAP 3.75 AZP 102.34 TAL 192.89 TAP 27.76 RCA 107.17 APO 148.19 V2 34.796
 RC 120.015 GL 59.13 GP -67.21 ZAL 101.71 ZAP 108.43 ETS 310.68 ZAE 106.58 ETE 222.55 ZAC 106.74 ETC 186.26 CLP-144.73

PLANETOCENTRIC CONIC

C3 50.200 VHL 7.085 CLA 59.65 RAL 340.65 RAD 6568.8 VEL 13.098 PTH 2.39 VHP 7.966 DPA -57.80 RAP 51.43 ECC 1.8262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.03 14 20 7 4597.52 -25.16 225.90 234.70 33.93 15 36 44 3997.5 -31.70 221.07
 144.97 23 51 17 2933.37 -25.14 89.64 234.68 33.93 24 40 10 2333.4 -31.69 84.82
 35.03 14 20 7 4597.52 -25.16 225.90 234.70 33.93 15 36 44 3997.5 -31.70 221.07
 144.97 23 51 17 2933.37 -25.14 89.64 234.68 33.93 24 40 10 2333.4 -31.69 84.82
 35.03 14 20 7 4597.52 -25.16 225.90 234.70 33.93 15 36 44 3997.5 -31.70 221.07
 144.97 23 51 17 2933.37 -25.14 89.64 234.68 33.93 24 40 10 2333.4 -31.69 84.82

DIFFERENTIAL CORRECTIONS

TDE 2.9162 TRA-1.8598 TC3 -.8700 BAU .6277
 RDE 1.4180 RRA -.5279 RC3 -.3434 FAU .03410
 FDE 1.8320 FRA -.8169 FC3 -.5880 BSP 13240
 BDE 3.2426 BRA 1.9332 BC3 .9353 FSP -603

MID-COURSE EXECUTION ACCURACY

SGT 3992.4 SGR 1505.1 SG3 185.3
 RRT .9683 RRF .9942 RTF .9826
 SGB 4266.7 R23 .1411 R13 .9873
 SG1 4252.1 SG2 353.2 THA 20.20

ORBIT DETERMINATION ACCURACY

ST 2521.9 SR 1174.4 SS 1054.9
 CRT .9826 CRS -.9991 CST -.9947
 LSA 2970.3 MSA 171.5 SSA 2.9
 EL1 2777.7 EL2 153.5 ALF 24.82

LAUNCH DATE FEB 4 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 423.678

RL 147.48 LAL .00 LOL 135.01 VL 27.546 GAL -2.24 AZL 79.26 HCA 197.99 SMA 127.49 ECC .16149 INC10.7362 V1 30.211
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.370 GAP 4.02 AZP 100.22 TAL 191.76 TAP 29.75 RCA 106.90 APO 148.07 V2 34.800
 RC 122.394 GL 56.15 GP -61.22 ZAL 102.58 ZAP 112.89 ETS 312.76 ZAE 111.14 ETE 222.68 ZAC 108.89 ETC 187.79 CLP-143.89

PLANETOCENTRIC CONIC

C3 38.124 VHL 6.174 CLA 57.66 RAL 344.94 RAD 6568.5 VEL 12.629 PTH 2.29 VHP 6.960 DPA -52.42 RAP 45.88 ECC 1.6274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.42 14 43 26 4516.44 -28.37 220.65 234.96 37.44 15 58 42 3916.4 -34.60 215.17
 142.58 0 6 9 2876.05 -28.36 87.41 234.94 37.43 0 54 5 2276.0 -34.58 81.93
 37.42 14 43 26 4516.44 -28.37 220.65 234.96 37.44 15 58 42 3916.4 -34.60 215.17
 142.58 0 6 9 2876.05 -28.36 87.41 234.94 37.43 0 54 5 2276.0 -34.58 81.93
 37.42 14 43 26 4516.44 -28.37 220.65 234.96 37.44 15 58 42 3916.4 -34.60 215.17
 142.58 0 6 9 2876.05 -28.36 87.41 234.94 37.43 0 54 5 2276.0 -34.58 81.93

DIFFERENTIAL CORRECTIONS

TDE 2.6438 TRA-1.6314 TC3 -1.2735 BAU .6950
 RDE 1.2728 RRA -.4434 RC3 -.4877 FAU .04385
 FDE 1.9745 FRA -.8005 FC3 -.9957 BSP 13551
 BDE 2.9342 BRA 1.6905 BC3 1.3637 FSP -745

MID-COURSE EXECUTION ACCURACY

SGT 4062.1 SGR 1532.7 SG3 225.3
 RRT .9671 RRF .9941 RTF .9781
 SGB 4341.7 R23 .1590 R13 .9835
 SG1 4326.2 SG2 366.0 THA 20.20

ORBIT DETERMINATION ACCURACY

ST 2596.5 SR 1203.6 SS 1130.2
 CRT .9902 CRS -.9995 CST -.9940
 LSA 3071.8 MSA 176.9 SSA 3.6
 EL1 2857.8 EL2 152.9 ALF 24.73

LAUNCH DATE FEB 4 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 429.681

RL 147.48 LAL .00 LOL 135.01 VL 27.516 GAL -2.04 AZL 80.70 HCA 201.12 SMA 127.28 ECC .16248 INC 9.2992 V1 30.211
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.353 GAP 4.29 AZP 98.68 TAL 190.61 TAP 31.73 RCA 106.60 APO 147.97 V2 34.805
 RC 124.766 GL 53.27 GP -55.72 ZAL 103.00 ZAP 117.25 ETS 313.70 ZAE 114.94 ETE 221.19 ZAC 110.76 ETC 187.91 CLP-144.39

PLANETOCENTRIC CONIC

C3 30.738 VHL 5.544 DLA 55.88 RAL 349.17 RAD 6568.2 VEL 12.333 PTH 2.22 VHP 6.324 DPA -47.32 RAP 42.03 ECC 1.5059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.58 15 6 9 4450.34 -30.58 215.85 235.59 40.65 16 20 19 3850.3 -36.49 209.79
 140.42 0 17 11 2833.51 -30.57 85.44 235.57 40.65 1 4 25 2233.5 -36.48 79.38
 39.58 15 6 9 4450.34 -30.58 215.85 235.59 40.65 16 20 19 3850.3 -36.49 209.79
 140.42 0 17 11 2833.51 -30.57 85.44 235.57 40.65 1 4 25 2233.5 -36.48 79.38
 39.58 15 6 9 4450.34 -30.58 215.85 235.59 40.65 16 20 19 3850.3 -36.49 209.79
 140.42 0 17 11 2833.51 -30.57 85.44 235.57 40.65 1 4 25 2233.5 -36.48 79.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.4834 TRA-1.4560 TC3-1.7068 BAU .7425
 RDE 1.1119 RRA -.3483 RC3 -.5932 FAU .05224
 FDE 2.0689 FRA -.7472 FC3-1.4714 BSP 13857
 BOE 2.7209 BRA 1.4971 BC3 1.8069 FSP -873

SGT 4167.2 SGR 1471.4 SG3 261.0
 RRT .9648 RRF .9928 RTF .9744
 SGB 4419.4 R23 .1725 R13 .9797
 SG1 4404.2 SG2 366.1 THA 18.95

ST 2690.3 SR 1165.2 SS 1190.0
 CRT .9905 CRS -.9997 CST -.9936
 LSA 3159.1 MSA 178.3 SSA 4.3
 EL1 2928.1 EL2 147.2 ALF 23.28

LAUNCH DATE FEB 4 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 435.680

RL 147.48 LAL .00 LOL 135.01 VL 27.486 GAL -1.83 AZL 81.78 HCA 204.25 SMA 127.08 ECC .16359 INC 8.2185 V1 30.211
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.335 GAP 4.57 AZP 97.50 TAL 189.43 TAP 33.69 RCA 106.29 APO 147.87 V2 34.811
 RC 127.128 GL 50.56 GP -50.73 ZAL 103.03 ZAP 121.43 ETS 314.27 ZAE 118.05 ETE 219.02 ZAC 112.45 ETC 187.52 CLP-145.45

PLANETOCENTRIC CONIC

C3 25.857 VHL 5.085 DLA 54.31 RAL 353.29 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 5.914 DPA -42.53 RAP 39.36 ECC 1.4255
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.50 15 28 0 4395.77 -32.09 211.55 236.53 43.52 16 41 15 3795.8 -37.71 205.01
 138.50 0 28 10 2801.84 -32.08 83.76 236.51 43.51 1 14 52 2201.8 -37.69 77.22
 41.50 15 28 0 4395.77 -32.09 211.55 236.53 43.52 16 41 15 3795.8 -37.71 205.01
 138.50 0 28 10 2801.84 -32.08 83.76 236.51 43.51 1 14 52 2201.8 -37.69 77.22
 41.50 15 28 0 4395.77 -32.09 211.55 236.53 43.52 16 41 15 3795.8 -37.71 205.01
 138.50 0 28 10 2801.84 -32.08 83.76 236.51 43.51 1 14 52 2201.8 -37.69 77.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.3809 TRA-1.3026 TC3-2.1526 BAU .7781
 RDE .9689 RRA -.2619 RC3 -.6580 FAU .05875
 FDE 2.1143 FRA -.6565 FC3-1.9670 BSP 14100
 BOE 2.5705 BRA 1.3287 BC3 2.2509 FSP -976

SGT 4280.1 SGR 1376.8 SG3 290.2
 RRT .9616 RRF .9905 RTF .9710
 SGB 4496.1 R23 .1825 R13 .9758
 SG1 4481.6 SG2 360.9 THA 17.30

ST 2787.6 SR 1102.4 SS 1233.1
 CRT .9907 CRS -.9998 CST -.9933
 LSA 3236.5 MSA 178.2 SSA 5.2
 EL1 2994.4 EL2 139.3 ALF 21.44

LAUNCH DATE FEB 4 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 441.670

RL 147.48 LAL .00 LOL 135.01 VL 27.454 GAL -1.61 AZL 82.63 HCA 207.40 SMA 126.87 ECC .16482 INC 7.3723 V1 30.211
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.318 GAP 4.84 AZP 96.55 TAL 188.22 TAP 35.62 RCA 105.96 APO 147.78 V2 34.818
 RC 129.481 GL 48.01 GP -46.24 ZAL 102.70 ZAP 125.35 ETS 314.73 ZAE 120.57 ETE 216.56 ZAC 114.04 ETC 186.92 CLP-146.77

PLANETOCENTRIC CONIC

C3 22.444 VHL 4.738 DLA 52.93 RAL 357.30 RAD 6567.9 VEL 11.993 PTH 2.14 VHP 5.653 DPA -38.09 RAP 37.54 ECC 1.3694
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.22 15 49 0 4350.16 -33.12 207.73 237.79 46.03 17 1 30 3750.2 -38.46 200.80
 136.78 0 39 11 2778.08 -33.10 82.36 237.77 46.03 1 25 29 2178.1 -38.45 75.43
 43.22 15 49 0 4350.16 -33.12 207.73 237.79 46.03 17 1 30 3750.2 -38.46 200.80
 136.78 0 39 11 2778.08 -33.10 82.36 237.77 46.03 1 25 29 2178.1 -38.45 75.43
 43.22 15 49 0 4350.16 -33.12 207.73 237.79 46.03 17 1 30 3750.2 -38.46 200.80
 136.78 0 39 11 2778.08 -33.10 82.36 237.77 46.03 1 25 29 2178.1 -38.45 75.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.3070 TRA-1.1638 TC3-2.6085 BAU .8097
 RDE .8469 RRA -.1911 RC3 -.6909 FAU .06352
 FDE 2.1112 FRA -.5427 FC3-2.4501 BSP 14388
 BOE 2.4575 BRA 1.1794 BC3 2.6984 FSP -1057

SGT 4398.3 SGR 1274.6 SG3 312.6
 RRT .9580 RRF .9870 RTF .9678
 SGB 4579.2 R23 .1876 R13 .9721
 SG1 4565.7 SG2 352.0 THA 15.61

ST 2877.6 SR 1030.9 SS 1257.8
 CRT .9910 CRS -.9998 CST -.9930
 LSA 3300.6 MSA 177.1 SSA 6.2
 EL1 3053.9 EL2 130.1 ALF 19.58

LAUNCH DATE FEB 4 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 447.649

RL 147.48 LAL .00 LOL 135.01 VL 27.421 GAL -1.39 AZL 83.31 HCA 210.55 SMA 126.65 ECC .16616 INC 6.6882 V1 30.211
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.301 GAP 5.11 AZP 95.77 TAL 186.99 TAP 37.54 RCA 105.61 APO 147.69 V2 34.825
 RC 131.823 GL 45.62 GP -42.24 ZAL 102.04 ZAP 128.99 ETS 315.15 ZAE 122.57 ETE 214.02 ZAC 115.57 ETC 186.28 CLP-148.19

PLANETOCENTRIC CONIC

C3 19.957 VHL 4.467 DLA 51.71 RAL 1.25 RAD 6567.8 VEL 11.889 PTH 2.11 VHP 5.494 DPA -34.01 RAP 36.37 ECC 1.3284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.74 16 9 22 4311.57 -33.80 204.35 239.36 48.22 17 21 14 3711.6 -38.90 197.11
 135.26 0 50 20 2760.21 -33.79 81.21 239.34 48.21 1 36 21 2160.2 -38.89 73.96
 44.74 16 9 22 4311.57 -33.80 204.35 239.36 48.22 17 21 14 3711.6 -38.90 197.11
 135.26 0 50 20 2760.21 -33.79 81.21 239.34 48.21 1 36 21 2160.2 -38.89 73.96
 44.74 16 9 22 4311.57 -33.80 204.35 239.36 48.22 17 21 14 3711.6 -38.90 197.11
 135.26 0 50 20 2760.21 -33.79 81.21 239.34 48.21 1 36 21 2160.2 -38.89 73.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.2533 TRA-1.0303 TC3-3.0624 BAU .8379
 RDE .7462 RRA -.1337 RC3 -.6964 FAU .06652
 FDE 2.0719 FRA -.4126 FC3-2.8856 BSP 14687
 BOE 2.3736 BRA 1.0389 BC3 3.1406 FSP -1113

SGT 4515.0 SGR 1174.6 SG3 328.3
 RRT .9538 RRF .9822 RTF .9650
 SGB 4665.3 R23 .1879 R13 .9686
 SG1 4652.7 SG2 342.4 THA 14.01

ST 2961.0 SR 960.9 SS 1267.9
 CRT .9914 CRS -.9999 CST -.9926
 LSA 3356.7 MSA 175.4 SSA 7.2
 EL1 3110.7 EL2 120.0 ALF 17.86

LAUNCH DATE FEB 4 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 453.618

RL 147.48 LAL .00 LOL 135.01 VL 27.388 GAL -1.15 AZL 83.88 HCA 213.70 SMA 126.43 ECC .16762 INC 6.1206 V1 30.211
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.284 GAP 5.38 AZP 95.10 TAL 185.72 TAP 39.42 RCA 105.24 APO 147.62 V2 34.833
 RC 134.153 GL 43.35 GP -38.69 ZAL 101.08 ZAP 132.35 ETS 315.56 ZAE 124.13 ETE 211.53 ZAC 117.09 ETC 185.65 CLP-149.65

PLANETOCENTRIC CONIC

C3 18.088 VHL 4.253 CLA 50.63 RAL 5.18 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 5.408 DPA -30.27 RAP 35.70 ECC 1.2977
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.10 16 29 16 4278.59 -34.25 201.38 241.23 50.12 17 40 35 3678.6 -39.13 193.88
 133.90 1 1 45 2746.84 -34.23 80.28 241.22 50.11 1 47 32 2146.8 -39.12 72.78
 46.10 16 29 16 4278.59 -34.25 201.38 241.23 50.12 17 40 35 3678.6 -39.13 193.88
 133.90 1 1 45 2746.84 -34.23 80.28 241.22 50.11 1 47 32 2146.8 -39.12 72.78
 46.10 16 29 16 4278.59 -34.25 201.38 241.23 50.12 17 40 35 3678.6 -39.13 193.88
 133.90 1 1 45 2746.84 -34.23 80.28 241.22 50.11 1 47 32 2146.8 -39.12 72.78

DIFFERENTIAL CORRECTIONS

TDE 2.2142 TRA -.8954 TC3-3.5036 BAU .8631
 RDE .6643 RRA -.0868 RC3 -.6799 FAU .06787
 FDE 2.0072 FRA -.2712 FC3-3.2484 BSP 14897
 BDE 2.3117 BRA .8996 BC3 3.5689 FSP -1138

MID-COURSE EXECUTION ACCURACY

SGT 4625.5 SGR 1081.3 SG3 337.7
 RRT .9484 RRF .9757 RTF .9622
 SGB 4750.2 R23 .1841 R13 .9652
 SG1 4738.4 SG2 334.8 THA 12.56

ORBIT DETERMINATION ACCURACY

ST 3038.3 SR 896.8 SS 1266.6
 CRT .9919 CRS -.9999 CST -.9922
 LSA 3407.3 MSA 173.7 SSA 8.2
 EL1 3166.0 EL2 109.5 ALF 16.34

LAUNCH DATE FEB 4 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 459.573

RL 147.48 LAL .00 LOL 135.01 VL 27.354 GAL -.90 AZL 84.36 HCA 216.86 SMA 126.21 ECC .16922 INC 5.6394 V1 30.211
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.267 GAP 5.66 AZP 94.52 TAL 184.43 TAP 41.29 RCA 104.85 APO 147.57 V2 34.841
 RC 136.471 GL 41.19 GP -35.54 ZAL 99.85 ZAP 135.43 ETS 315.94 ZAE 125.35 ETE 209.16 ZAC 118.62 ETC 185.05 CLP-151.11

PLANETOCENTRIC CONIC

C3 16.655 VHL 4.081 CLA 49.67 RAL 9.11 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 5.374 DPA -26.85 RAP 35.43 ECC 1.2741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.33 16 48 53 4250.20 -34.52 198.75 243.40 51.77 17 59 43 3650.2 -39.20 191.05
 132.67 1 13 31 2737.00 -34.51 79.54 243.39 51.76 1 59 8 2137.0 -39.19 71.85
 47.33 16 48 53 4250.20 -34.52 198.75 243.40 51.77 17 59 43 3650.2 -39.20 191.05
 132.67 1 13 31 2737.00 -34.51 79.54 243.39 51.76 1 59 8 2137.0 -39.19 71.85
 47.33 16 48 53 4250.20 -34.52 198.75 243.40 51.77 17 59 43 3650.2 -39.20 191.05
 132.67 1 13 31 2737.00 -34.51 79.54 243.39 51.76 1 59 8 2137.0 -39.19 71.85

DIFFERENTIAL CORRECTIONS

TDE 2.1805 TRA -.7627 TC3-3.9393 BAU .8891
 RDE .5968 RRA -.0507 RC3 -.6531 FAU .06824
 FDE 1.9203 FRA -.1329 FC3-3.5472 BSP 15259
 BDE 2.2607 BRA .7644 BC3 3.9931 FSP -1162

MID-COURSE EXECUTION ACCURACY

SGT 4737.9 SGR 999.2 SG3 342.7
 RRT .9424 RRF .9674 RTF .9599
 SGB 4842.1 R23 .1747 R13 .9623
 SG1 4831.0 SG2 327.8 THA 11.29

ORBIT DETERMINATION ACCURACY

ST 3102.9 SR 838.7 SS 1253.1
 CRT .9926 CRS -.9999 CST -.9917
 LSA 3445.6 MSA 171.2 SSA 9.3
 EL1 3212.7 EL2 98.5 ALF 15.03

LAUNCH DATE FEB 4 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 465.516

RL 147.48 LAL .00 LOL 135.01 VL 27.320 GAL -.64 AZL 84.78 HCA 220.02 SMA 125.99 ECC .17094 INC 5.2241 V1 30.211
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.250 GAP 5.93 AZP 94.01 TAL 183.11 TAP 43.13 RCA 104.45 APO 147.52 V2 34.850
 RC 138.775 GL 39.12 GP -32.76 ZAL 98.37 ZAP 138.26 ETS 316.29 ZAE 126.28 ETE 206.96 ZAC 120.17 ETC 184.52 CLP-152.54

PLANETOCENTRIC CONIC

C3 15.542 VHL 3.942 CLA 48.79 RAL 13.07 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 5.380 DPA -23.71 RAP 35.50 ECC 1.2558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.45 17 8 23 4225.59 -34.65 196.41 245.84 53.21 18 18 49 3625.6 -39.17 188.56
 131.55 1 25 38 2730.15 -34.64 78.98 245.83 53.20 2 11 8 2130.2 -39.16 71.13
 48.45 17 8 23 4225.59 -34.65 196.41 245.84 53.21 18 18 49 3625.6 -39.17 188.56
 131.55 1 25 38 2730.15 -34.64 78.98 245.83 53.20 2 11 8 2130.2 -39.16 71.13
 48.45 17 8 23 4225.59 -34.65 196.41 245.84 53.21 18 18 49 3625.6 -39.17 188.56
 131.55 1 25 38 2730.15 -34.64 78.98 245.83 53.20 2 11 8 2130.2 -39.16 71.13

DIFFERENTIAL CORRECTIONS

TDE 2.1490 TRA -.6279 TC3-4.3558 BAU .9141
 RDE .5410 RRA -.0224 RC3 -.6168 FAU .06762
 FDE 1.8167 FRA .0008 FC3-3.7665 BSP 15613
 BDE 2.2160 BRA .6283 BC3 4.3993 FSP -1169

MID-COURSE EXECUTION ACCURACY

SGT 4844.4 SGR 925.8 SG3 343.3
 RRT .9352 RRF .9568 RTF .9581
 SGB 4932.1 R23 .1605 R13 .9600
 SG1 4921.6 SG2 322.7 THA 10.18

ORBIT DETERMINATION ACCURACY

ST 3152.4 SR 786.5 SS 1227.9
 CRT .9935 CRS -.9997 CST -.9912
 LSA 3469.3 MSA 168.2 SSA 10.4
 EL1 3247.9 EL2 87.0 ALF 13.93

LAUNCH DATE FEB 4 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 471.445

RL 147.48 LAL .00 LOL 135.01 VL 27.286 GAL -.37 AZL 85.14 HCA 223.19 SMA 125.76 ECC .17281 INC 4.8598 V1 30.211
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.234 GAP 6.21 AZP 93.55 TAL 181.77 TAP 44.96 RCA 104.03 APO 147.49 V2 34.860
 RC 141.067 GL 37.11 GP -30.30 ZAL 96.66 ZAP 140.85 ETS 316.59 ZAE 126.98 ETE 204.94 ZAC 121.77 ETC 184.03 CLP-153.93

PLANETOCENTRIC CONIC

C3 14.676 VHL 3.831 CLA 47.98 RAL 17.09 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 5.416 DPA -20.84 RAP 35.83 ECC 1.2415
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.49 17 27 56 4204.07 -34.67 194.31 248.56 54.47 18 38 0 3604.1 -39.04 186.34
 130.51 1 38 6 2725.96 -34.66 78.58 248.55 54.46 2 23 32 2126.0 -39.03 70.62
 49.49 17 27 56 4204.07 -34.67 194.31 248.56 54.47 18 38 0 3604.1 -39.04 186.34
 130.51 1 38 6 2725.96 -34.66 78.58 248.55 54.46 2 23 32 2126.0 -39.03 70.62
 49.49 17 27 56 4204.07 -34.67 194.31 248.56 54.47 18 38 0 3604.1 -39.04 186.34
 130.51 1 38 6 2725.96 -34.66 78.58 248.55 54.46 2 23 32 2126.0 -39.03 70.62

DIFFERENTIAL CORRECTIONS

TDE 2.1239 TRA -.4858 TC3-4.7393 BAU .9366
 RDE .4971 RRA .0012 RC3 -.5731 FAU .06611
 FDE 1.7113 FRA .1326 FC3-3.8997 BSP 15871
 BDE 2.1813 BRA .4858 BC3 4.7738 FSP -1154

MID-COURSE EXECUTION ACCURACY

SGT 4945.1 SGR 863.5 SG3 340.9
 RRT .9259 RRF .9439 RTF .9563
 SGB 5019.9 R23 .1449 R13 .9579
 SG1 5009.6 SG2 322.1 THA 9.22

ORBIT DETERMINATION ACCURACY

ST 3195.1 SR 743.6 SS 1199.2
 CRT .9945 CRS -.9993 CST -.9907
 LSA 3488.8 MSA 165.6 SSA 11.5
 EL1 3279.6 EL2 75.5 ALF 13.04

LAUNCH DATE FEB 4 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 477.360

RL 147.48 LAL .00 LOL 135.01 VL 27.250 GAL -.09 AZL 85.46 MCA 226.36 SMA 125.53 ECC .17483 INC 4.5359 V1 30.211
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.217 GAP 6.49 AZP 93.13 TAL 180.40 TAP 46.76 RCA 103.58 APO 147.48 V2 34.870
 RC 143.344 GL 35.16 GP -28.13 ZAL 94.73 ZAP 143.24 ETS 316.82 ZAE 127.51 ETE 203.11 ZAC 123.40 ETC 183.59 CLP-155.29

PLANETOCENTRIC CONIC

C3 14.007 VHL 3.743 DLA 47.22 RAL 21.15 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 5.477 DPA -18.20 RAP 36.40 ECC 1.2305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.50 17 47 39 4185.12 -34.59 192.40 251.51 55.59 18 57 24 3585.1 -38.82 184.35
 129.50 1 50 51 2724.30 -34.58 78.35 251.50 55.58 2 36 15 2124.3 -38.81 70.30
 50.50 17 47 39 4185.12 -34.59 192.40 251.51 55.59 18 57 24 3585.1 -38.82 184.35
 129.50 1 50 51 2724.30 -34.58 78.35 251.50 55.58 2 36 15 2124.3 -38.81 70.30
 50.50 17 47 39 4185.12 -34.59 192.40 251.51 55.59 18 57 24 3585.1 -38.82 184.35
 129.50 1 50 51 2724.30 -34.58 78.35 251.50 55.58 2 36 15 2124.3 -38.81 70.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TC3 2.0875 TRA -3.3498 TC3-5.1186 BAU .9638
 RDE .4580 RRA .0158 RC3 -.5374 FAU .06481
 FDE 1.5846 FRA .2363 FC3-4.0059 BSP 16375
 BOE 2.1372 BRA .3502 BC3 5.1468 FSP -1166

SGT 5051.2 SGR 809.1 SG3 336.4
 RRT .9185 RRF .9288 RTF .9570
 SGB 5115.6 R23 .1172 R13 .9581
 SG1 5105.8 SG2 316.6 THA 8.40

ST 3206.6 SR 701.3 SS 1151.3
 CRT .9959 CRS -.9985 CST -.9903
 LSA 3474.8 MSA 159.1 SSA 12.7
 EL1 3281.8 EL2 62.3 ALF 12.29

LAUNCH DATE FEB 4 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 483.260

RL 147.48 LAL .00 LOL 135.01 VL 27.215 GAL .21 AZL 85.76 MCA 229.53 SMA 125.30 ECC .17700 INC 4.2443 V1 30.211
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.201 GAP 6.77 AZP 92.76 TAL 179.02 TAP 48.55 RCA 103.12 APO 147.48 V2 34.880
 RC 145.608 GL 33.24 GP -26.20 ZAL 92.62 ZAP 145.44 ETS 316.98 ZAE 127.90 ETE 201.46 ZAC 125.09 ETC 183.19 CLP-156.60

PLANETOCENTRIC CONIC

C3 13.505 VHL 3.675 DLA 46.47 RAL 25.28 RAD 6567.5 VEL 11.614 PTH 2.04 VHP 5.558 DPA -15.77 RAP 37.16 ECC 1.2223
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.48 18 7 37 4168.26 -34.41 190.65 254.70 56.60 19 17 6 3568.3 -38.52 182.53
 128.52 2 3 47 2725.17 -34.40 78.29 254.69 56.59 2 49 12 2125.2 -38.51 70.17
 51.48 18 7 37 4168.26 -34.41 190.65 254.70 56.60 19 17 6 3568.3 -38.52 182.53
 128.52 2 3 47 2725.17 -34.40 78.29 254.69 56.59 2 49 12 2125.2 -38.51 70.17
 51.48 18 7 37 4168.26 -34.41 190.65 254.70 56.60 19 17 6 3568.3 -38.52 182.53
 128.52 2 3 47 2725.17 -34.40 78.29 254.69 56.59 2 49 12 2125.2 -38.51 70.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0689 TRA -.1844 TC3-5.4058 BAU .9798
 RDE .4334 RRA .0370 RC3 -.4803 FAU .06161
 FDE 1.4908 FRA .3761 FC3-3.9495 BSP 16434
 BOE 2.1138 BRA .1880 BC3 5.4271 FSP -1102

SGT 5134.7 SGR 766.9 SG3 329.6
 RRT .9008 RRF .9114 RTF .9534
 SGB 5191.7 R23 .1129 R13 .9544
 SG1 5181.1 SG2 330.1 THA 7.69

ST 3230.3 SR 676.2 SS 1123.7
 CRT .9969 CRS -.9972 CST -.9890
 LSA 3482.6 MSA 161.8 SSA 13.8
 EL1 3300.0 EL2 52.1 ALF 11.79

LAUNCH DATE FEB 4 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 489.145

RL 147.48 LAL .00 LOL 135.01 VL 27.179 GAL .52 AZL 86.02 MCA 232.70 SMA 125.07 ECC .17934 INC 3.9789 V1 30.211
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.185 GAP 7.06 AZP 92.41 TAL 177.62 TAP 50.32 RCA 102.64 APO 147.50 V2 34.891
 RC 147.857 GL 31.34 GP -24.49 ZAL 90.34 ZAP 147.46 ETS 317.06 ZAE 128.20 ETE 199.99 ZAC 126.83 ETC 182.82 CLP-157.88

PLANETOCENTRIC CONIC

C3 13.146 VHL 3.626 DLA 45.71 RAL 29.46 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 5.656 DPA -13.51 RAP 38.09 ECC 1.2164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.48 18 27 56 4153.11 -34.13 189.01 258.08 57.52 19 37 9 3553.1 -38.13 180.84
 127.52 2 16 48 2728.63 -34.12 78.40 258.07 57.51 3 2 17 2128.6 -38.12 70.23
 52.48 18 27 56 4153.11 -34.13 189.01 258.08 57.52 19 37 9 3553.1 -38.13 180.84
 127.52 2 16 48 2728.63 -34.12 78.40 258.07 57.51 3 2 17 2128.6 -38.12 70.23
 52.48 18 27 56 4153.11 -34.13 189.01 258.08 57.52 19 37 9 3553.1 -38.13 180.84
 127.52 2 16 48 2728.63 -34.12 78.40 258.07 57.51 3 2 17 2128.6 -38.12 70.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0352 TRA -.0247 TC3-5.6794 BAU 1.0011
 RDE .4101 RRA .0500 RC3 -.4381 FAU .05915
 FDE 1.3762 FRA .4808 FC3-3.8956 BSP 16725
 BOE 2.0761 BRA .0557 BC3 5.6963 FSP -1078

SGT 5225.7 SGR 730.5 SG3 322.0
 RRT .8870 RRF .8923 RTF .9532
 SGB 5276.5 R23 .0938 R13 .9540
 SG1 5265.9 SG2 334.7 THA 7.10

ST 3218.5 SR 649.0 SS 1075.4
 CRT .9981 CRS -.9950 CST -.9881
 LSA 3451.2 MSA 159.0 SSA 15.0
 EL1 3283.0 EL2 39.5 ALF 11.38

LAUNCH DATE FEB 4 1969

FLIGHT TIME 172.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 495.014

RL 147.48 LAL .00 LOL 135.01 VL 27.143 GAL .84 AZL 86.27 MCA 235.88 SMA 124.84 ECC .18187 INC 3.7348 V1 30.211
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.170 GAP 7.35 AZP 92.10 TAL 176.20 TAP 52.07 RCA 102.14 APO 147.55 V2 34.902
 RC 150.092 GL 29.46 GP -22.96 ZAL 87.90 ZAP 149.34 ETS 317.04 ZAE 128.41 ETE 198.68 ZAC 128.61 ETC 182.49 CLP-159.11

PLANETOCENTRIC CONIC

C3 12.918 VHL 3.594 DLA 44.94 RAL 33.67 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 5.768 DPA -11.41 RAP 39.16 ECC 1.2126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.52 18 48 38 4139.22 -33.75 187.44 261.64 58.36 19 57 38 3539.2 -37.65 179.25
 126.48 2 29 43 2734.96 -33.74 78.70 261.64 58.35 3 15 18 2135.0 -37.64 70.51
 53.52 18 48 38 4139.22 -33.75 187.44 261.64 58.36 19 57 38 3539.2 -37.65 179.25
 126.48 2 29 43 2734.96 -33.74 78.70 261.64 58.35 3 15 18 2135.0 -37.64 70.51
 53.52 18 48 38 4139.22 -33.75 187.44 261.64 58.36 19 57 38 3539.2 -37.65 179.25
 126.48 2 29 43 2734.96 -33.74 78.70 261.64 58.35 3 15 18 2135.0 -37.64 70.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9960 TRA .1441 TC3-5.9011 BAU 1.0214
 RDE .3920 RRA .0621 RC3 -.3978 FAU .05652
 FDE 1.2643 FRA .5814 FC3-3.7881 BSP 17006
 BOE 2.0342 BRA .1569 BC3 5.9145 FSP -1048

SGT 5312.6 SGR 701.2 SG3 313.8
 RRT .8714 RRF .8721 RTF .9530
 SGB 5358.7 R23 .0778 R13 .9536
 SG1 5347.8 SG2 341.7 THA 6.59

ST 3186.0 SR 626.3 SS 1024.1
 CRT .9990 CRS -.9918 CST -.9869
 LSA 3401.0 MSA 157.8 SSA 16.1
 EL1 3246.9 EL2 27.6 ALF 11.11

LAUNCH DATE FEB 4 1969

FLIGHT TIME 174.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

RL 147.48 LAL .00 LOL 135.01 VL 27.107 GAL 1.18 AZL 86.49 HCA 239.05 SMA 124.61 ECC .18458 INC 3.5083 V1 30.211
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.154 GAP 7.65 AZP 91.81 TAL 174.76 TAP 53.82 RCA 101.61 APO 147.62 V2 34.914
 RC 152.312 GL 27.60 GP -21.60 ZAL 85.33 ZAP 151.09 ETS 316.92 ZAE 128.57 ETE 197.50 ZAC 130.44 ETC 182.17 CLP-160.31

PLANETOCENTRIC CONIC

C3 12.812 VHL 3.579 CLA 44.13 RAL 37.90 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 5.893 DPA -9.46 RAP 40.37 ECC 1.2108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.62 19 9 45 4126.37 -33.27 185.91 265.36 59.15 20 18 31 3526.4 -37.08 177.71
 125.38 2 42 22 2744.27 -33.26 79.20 265.35 59.14 3 28 7 2144.3 -37.07 71.00
 54.62 19 9 45 4126.37 -33.27 185.91 265.36 59.15 20 18 31 3526.4 -37.08 177.71
 125.38 2 42 22 2744.27 -33.26 79.20 265.35 59.14 3 28 7 2144.3 -37.07 71.00
 54.62 19 9 45 4126.37 -33.27 185.91 265.36 59.15 20 18 31 3526.4 -37.08 177.71
 125.38 2 42 22 2744.27 -33.26 79.20 265.35 59.14 3 28 7 2144.3 -37.07 71.00

DIFFERENTIAL CORRECTIONS

TDE 1.9502 TRA .3218 TC3-6.0563 BAU 1.0391
 RDE .3776 RRA .0732 RC3 -.3577 FAU .05361
 FDE 1.1532 FRA .6740 FC3-3.6229 BSP 17262
 BDE 1.9864 BRA .3300 BC3 6.0669 FSP -1017

MID-COURSE EXECUTION ACCURACY

SGT 5390.5 SGR 676.4 SG3 304.2
 RRT .8541 RRF .8505 RTF .9531
 SGB 5432.8 R23 .0635 R13 .9535
 SG1 5421.5 SG2 349.8 THA 6.14

ORBIT DETERMINATION ACCURACY

ST 3131.9 SR 606.4 SS 968.2
 CRT .9995 CRS -.9870 CST -.9855
 LSA 3330.1 MSA 157.2 SSA 17.2
 EL1 3190.0 EL2 18.6 ALF 10.95

LAUNCH DATE FEB 4 1969

FLIGHT TIME 176.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

RL 147.48 LAL .00 LOL 135.01 VL 27.071 GAL 1.54 AZL 86.70 HCA 242.23 SMA 124.39 ECC .18750 INC 3.2963 V1 30.211
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.139 GAP 7.96 AZP 91.54 TAL 173.31 TAP 55.55 RCA 101.06 APO 147.71 V2 34.926
 RC 154.516 GL 25.75 GP -20.39 ZAL 82.66 ZAP 152.72 ETS 316.68 ZAE 128.68 ETE 196.46 ZAC 132.31 ETC 181.86 CLP-161.47

PLANETOCENTRIC CONIC

C3 12.824 VHL 3.581 CLA 43.27 RAL 42.13 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 6.029 DPA -7.62 RAP 41.68 ECC 1.2110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.80 19 31 18 4114.07 -32.68 184.39 269.19 59.89 20 39 52 3514.1 -36.40 176.21
 124.20 2 54 33 2756.97 -32.67 79.92 269.18 59.88 3 40 29 2157.0 -36.39 71.74
 55.80 19 31 18 4114.07 -32.68 184.39 269.19 59.89 20 39 52 3514.1 -36.40 176.21
 124.20 2 54 33 2756.97 -32.67 79.92 269.18 59.88 3 40 29 2157.0 -36.39 71.74
 55.80 19 31 18 4114.07 -32.68 184.39 269.19 59.89 20 39 52 3514.1 -36.40 176.21
 124.20 2 54 33 2756.97 -32.67 79.92 269.18 59.88 3 40 29 2157.0 -36.39 71.74

DIFFERENTIAL CORRECTIONS

TDE 1.8940 TRA .5064 TC3-6.1594 BAU 1.0574
 RDE .3664 RRA .0836 RC3 -.3222 FAU .05079
 FDE 1.0437 FRA .7586 FC3-3.4287 BSP 17542
 BDE 1.9291 BRA .5133 BC3 6.1678 FSP -985

MID-COURSE EXECUTION ACCURACY

SGT 5466.4 SGR 656.2 SG3 294.2
 RRT .8360 RRF .8286 RTF .9534
 SGB 5505.6 R23 .0513 R13 .9537
 SG1 5494.0 SG2 358.2 THA 5.76

ORBIT DETERMINATION ACCURACY

ST 3051.6 SR 588.8 SS 908.9
 CRT .9994 CRS -.9802 CST -.9836
 LSA 3234.1 MSA 158.1 SSA 18.2
 EL1 3107.8 EL2 20.5 ALF 10.91

LAUNCH DATE FEB 4 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

RL 147.48 LAL .00 LOL 135.01 VL 27.035 GAL 1.91 AZL 86.90 HCA 245.42 SMA 124.16 ECC .19064 INC 3.0962 V1 30.211
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.124 GAP 8.27 AZP 91.29 TAL 171.86 TAP 57.27 RCA 100.49 APO 147.83 V2 34.938
 RC 156.704 GL 23.92 GP -19.30 ZAL 79.90 ZAP 154.24 ETS 316.33 ZAE 128.76 ETE 195.53 ZAC 134.23 ETC 181.56 CLP-162.60

PLANETOCENTRIC CONIC

C3 12.953 VHL 3.599 CLA 42.36 RAL 46.33 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 6.178 DPA -5.91 RAP 43.10 ECC 1.2132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.08 19 53 15 4102.13 -31.98 182.86 273.11 60.60 21 1 37 3502.1 -35.62 174.70
 122.92 3 6 3 2773.24 -31.97 80.89 273.11 60.59 3 52 17 2173.2 -35.61 72.74
 57.08 19 53 15 4102.13 -31.98 182.86 273.11 60.60 21 1 37 3502.1 -35.62 174.70
 122.92 3 6 3 2773.24 -31.97 80.89 273.11 60.59 3 52 17 2173.2 -35.61 72.74
 57.08 19 53 15 4102.13 -31.98 182.86 273.11 60.60 21 1 37 3502.1 -35.62 174.70
 122.92 3 6 3 2773.24 -31.97 80.89 273.11 60.59 3 52 17 2173.2 -35.61 72.74

DIFFERENTIAL CORRECTIONS

TDE 1.8299 TRA .7013 TC3-6.1976 BAU 1.0744
 RDE .3581 RRA .0939 RC3 -.2900 FAU .04797
 FDE .9382 FRA .8382 FC3-3.2059 BSP 17803
 BDE 1.8646 BRA .7075 BC3 6.2044 FSP -953

MID-COURSE EXECUTION ACCURACY

SGT 5538.0 SGR 639.9 SG3 284.2
 RRT .8176 RRF .8071 RTF .9539
 SGB 5574.9 R23 .0412 R13 .9541
 SG1 5562.8 SG2 366.8 THA 5.42

ORBIT DETERMINATION ACCURACY

ST 2951.2 SR 573.3 SS 848.8
 CRT .9982 CRS -.9704 CST -.9814
 LSA 3119.6 MSA 161.0 SSA 19.0
 EL1 3006.1 EL2 33.3 ALF 10.98

LAUNCH DATE FEB 4 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

RL 147.48 LAL .00 LOL 135.01 VL 26.999 GAL 2.29 AZL 87.09 HCA 248.60 SMA 123.93 ECC .19402 INC 2.9058 V1 30.211
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.110 GAP 8.60 AZP 91.06 TAL 170.39 TAP 58.99 RCA 99.88 APO 147.98 V2 34.951
 RC 158.875 GL 22.11 GP -18.32 ZAL 77.08 ZAP 155.67 ETS 315.85 ZAE 128.82 ETE 194.70 ZAC 136.18 ETC 181.25 CLP-163.70

PLANETOCENTRIC CONIC

C3 13.204 VHL 3.634 CLA 41.39 RAL 50.46 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 6.337 DPA -4.29 RAP 44.61 ECC 1.2173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.46 20 15 37 4090.19 -31.18 181.30 277.11 61.28 21 23 47 3490.2 -34.75 173.17
 121.54 3 16 42 2793.44 -31.17 82.13 277.10 61.26 4 3 16 2193.4 -34.73 74.01
 58.46 20 15 37 4090.19 -31.18 181.30 277.11 61.28 21 23 47 3490.2 -34.75 173.17
 121.54 3 16 42 2793.44 -31.17 82.13 277.10 61.26 4 3 16 2193.4 -34.73 74.01
 58.46 20 15 37 4090.19 -31.18 181.30 277.11 61.28 21 23 47 3490.2 -34.75 173.17
 121.54 3 16 42 2793.44 -31.17 82.13 277.10 61.26 4 3 16 2193.4 -34.73 74.01

DIFFERENTIAL CORRECTIONS

TDE 1.7562 TRA .9057 TC3-6.1726 BAU 1.0906
 RDE .3520 RRA .1043 RC3 -.2613 FAU .04521
 FDE .8353 FRA .9116 FC3-2.9645 BSP 18054
 BDE 1.7911 BRA .9117 BC3 6.1781 FSP -921

MID-COURSE EXECUTION ACCURACY

SGT 5604.8 SGR 626.3 SG3 273.9
 RRT .7994 RRF .7860 RTF .9546
 SGB 5639.7 R23 .0323 R13 .9548
 SG1 5627.2 SG2 374.7 THA 5.13

ORBIT DETERMINATION ACCURACY

ST 2830.6 SR 559.0 SS 787.6
 CRT .9957 CRS -.9567 CST -.9785
 LSA 2986.1 MSA 166.2 SSA 19.6
 EL1 2884.8 EL2 51.0 ALF 11.13

LAUNCH DATE FEB 4 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 524.073

RL 147.48 LAL .00 LOL 135.01 VL 26.962 GAL 2.70 AZL 87.28 HCA 251.79 SMA 123.70 ECC .19766 INC 2.7234 V1 30.211
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.095 GAP 8.93 AZP 90.85 TAL 168.91 TAP 60.70 RCA 99.25 APO 148.15 V2 34.964
 RC 161.027 GL 20.32 GP -17.43 ZAL 74.23 ZAP 157.01 ETS 315.23 ZAE 128.86 ETE 193.96 ZAC 138.17 ETC 180.94 CLP-164.77

PLANETOCENTRIC CONIC

C3 13.580 VHL 3.685 DLA 40.36 RAL 54.51 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 6.507 DPA -2.76 RAP 46.20 ECC 1.2235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.95 20 38 23 4077.93 -30.28 179.68 281.14 61.93 21 46 21 3477.9 -33.77 171.60
 120.05 3 26 16 2817.91 -30.27 83.67 281.13 61.92 4 13 14 2217.9 -33.76 75.59
 59.95 20 38 23 4077.93 -30.28 179.68 281.14 61.93 21 46 21 3477.9 -33.77 171.60
 120.05 3 26 16 2817.91 -30.27 83.67 281.13 61.92 4 13 14 2217.9 -33.76 75.59
 59.95 20 38 23 4077.93 -30.28 179.68 281.14 61.93 21 46 21 3477.9 -33.77 171.60
 120.05 3 26 16 2817.91 -30.27 83.67 281.13 61.92 4 13 14 2217.9 -33.76 75.59

DIFFERENTIAL CORRECTIONS

TDE 1.6772 TRA 1.1243 TC3-6.0741 BAU 1.1036
 RDE .3485 RRA .1155 RC3 -.2337 FAU .04234
 FDE .7397 FRA .9831 FC3-2.6993 BSP 18213
 BOE 1.7131 BRA 1.1302 BC3 6.0786 FSP -884

MID-COURSE EXECUTION ACCURACY

SGT 5666.1 SGR 615.5 SG3 263.5
 RRT .7813 RRF .7663 RTF .9551
 SGB 5699.4 R23 .0266 R13 .9553
 SG1 5686.5 SG2 382.8 THA 4.87

ORBIT DETERMINATION ACCURACY

ST 2700.4 SR 546.5 SS 730.5
 CRT .9910 CRS -.9380 CST -.9751
 LSA 2844.9 MSA 174.6 SSA 19.9
 EL1 2754.2 EL2 71.8 ALF 11.35

LAUNCH DATE FEB 4 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 529.816

RL 147.48 LAL .00 LOL 135.01 VL 26.926 GAL 3.13 AZL 87.45 HCA 254.98 SMA 123.48 ECC .20158 INC 2.5476 V1 30.211
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.081 GAP 9.28 AZP 90.66 TAL 167.43 TAP 62.41 RCA 98.59 APO 148.37 V2 34.977
 RC 163.161 GL 18.56 GP -16.63 ZAL 71.36 ZAP 158.27 ETS 314.46 ZAE 128.88 ETE 193.30 ZAC 140.19 ETC 180.61 CLP-165.82

PLANETOCENTRIC CONIC

C3 14.090 VHL 3.754 DLA 39.28 RAL 58.46 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 6.688 DPA -1.32 RAP 47.87 ECC 1.2319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.56 21 1 31 4065.04 -29.28 177.98 285.19 62.56 22 9 16 3465.0 -32.70 169.96
 118.44 3 34 35 2846.96 -29.27 85.51 285.18 62.54 4 22 2 2247.0 -32.69 77.49
 61.56 21 1 31 4065.04 -29.28 177.98 285.19 62.56 22 9 16 3465.0 -32.70 169.96
 118.44 3 34 35 2846.96 -29.27 85.51 285.18 62.54 4 22 2 2247.0 -32.69 77.49
 61.56 21 1 31 4065.04 -29.28 177.98 285.19 62.56 22 9 16 3465.0 -32.70 169.96
 118.44 3 34 35 2846.96 -29.27 85.51 285.18 62.54 4 22 2 2247.0 -32.69 77.49

DIFFERENTIAL CORRECTIONS

TDE 1.5856 TRA 1.3502 TC3-5.9304 BAU 1.1178
 RDE .3463 RRA .1268 RC3 -.2108 FAU .03971
 FDE .6455 FRA 1.0475 FC3-2.4401 BSP 18447
 BOE 1.6229 BRA 1.3561 BC3 5.9341 FSP -853

MID-COURSE EXECUTION ACCURACY

SGT 5724.3 SGR 605.7 SG3 253.3
 RRT .7641 RRF .7474 RTF .9559
 SGB 5756.2 R23 .0211 R13 .9560
 SG1 5743.0 SG2 389.5 THA 4.64

ORBIT DETERMINATION ACCURACY

ST 2552.1 SR 533.9 SS 673.4
 CRT .9833 CRS -.9123 CST -.9708
 LSA 2686.3 MSA 186.3 SSA 19.9
 EL1 2605.6 EL2 95.1 ALF 11.64

LAUNCH DATE FEB 4 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 535.531

RL 147.48 LAL .00 LOL 135.01 VL 26.890 GAL 3.57 AZL 87.62 HCA 258.17 SMA 123.25 ECC .20580 INC 2.3767 V1 30.211
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.067 GAP 9.64 AZP 90.49 TAL 165.95 TAP 64.12 RCA 97.89 APO 148.62 V2 34.990
 RC 165.276 GL 16.85 GP -15.91 ZAL 68.50 ZAP 159.46 ETS 313.52 ZAE 128.90 ETE 192.71 ZAC 142.24 ETC 180.26 CLP-166.85

PLANETOCENTRIC CONIC

C3 14.744 VHL 3.840 DLA 38.15 RAL 62.27 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 6.881 DPA .04 RAP 49.60 ECC 1.2427
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.29 21 25 5 4051.06 -28.20 176.19 289.25 63.16 22 32 36 3451.1 -31.55 168.23
 116.71 3 41 25 2881.06 -28.19 87.71 289.24 63.15 4 29 26 2281.1 -31.54 79.75
 63.29 21 25 5 4051.06 -28.20 176.19 289.25 63.16 22 32 36 3451.1 -31.55 168.23
 116.71 3 41 25 2881.06 -28.19 87.71 289.24 63.15 4 29 26 2281.1 -31.54 79.75
 63.29 21 25 5 4051.06 -28.20 176.19 289.25 63.16 22 32 36 3451.1 -31.55 168.23
 116.71 3 41 25 2881.06 -28.19 87.71 289.24 63.15 4 29 26 2281.1 -31.54 79.75

DIFFERENTIAL CORRECTIONS

TDE 1.4859 TRA 1.5875 TC3-5.7317 BAU 1.1304
 RDE .3455 RRA .1386 RC3 -.1901 FAU .03713
 FDE .5562 FRA 1.1080 FC3-2.1802 BSP 18675
 BOE 1.5256 BRA 1.5935 BC3 5.7349 FSP -823

MID-COURSE EXECUTION ACCURACY

SGT 5776.3 SGR 596.9 SG3 243.0
 RRT .7477 RRF .7297 RTF .9566
 SGB 5807.0 R23 .0167 R13 .9567
 SG1 5793.5 SG2 395.2 THA 4.44

ORBIT DETERMINATION ACCURACY

ST 2397.9 SR 521.6 SS 620.4
 CRT .9714 CRS -.8779 CST -.9657
 LSA 2523.1 MSA 201.6 SSA 19.7
 EL1 2451.0 EL2 121.1 ALF 11.96

LAUNCH DATE FEB 4 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 541.216

RL 147.48 LAL .00 LOL 135.01 VL 26.854 GAL 4.04 AZL 87.79 HCA 261.37 SMA 123.03 ECC .21035 INC 2.2097 V1 30.211
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.054 GAP 10.02 AZP 90.33 TAL 164.46 TAP 65.83 RCA 97.15 APO 148.91 V2 35.003
 RC 167.370 GL 15.18 GP -15.26 ZAL 65.67 ZAP 160.59 ETS 312.41 ZAE 128.91 ETE 192.18 ZAC 144.31 ETC 179.87 CLP-167.85

PLANETOCENTRIC CONIC

C3 15.557 VHL 3.944 DLA 36.99 RAL 65.93 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 7.087 DPA 1.33 RAP 51.39 ECC 1.2560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.14 21 49 7 4035.57 -27.04 174.27 293.29 63.74 22 56 22 3435.6 -30.33 166.37
 114.86 3 46 36 2920.60 -27.03 90.29 293.28 63.73 4 35 17 2320.6 -30.33 82.40
 65.14 21 49 7 4035.57 -27.04 174.27 293.29 63.74 22 56 22 3435.6 -30.33 166.37
 114.86 3 46 36 2920.60 -27.03 90.29 293.28 63.73 4 35 17 2320.6 -30.33 82.40
 65.14 21 49 7 4035.57 -27.04 174.27 293.29 63.74 22 56 22 3435.6 -30.33 166.37
 114.86 3 46 36 2920.60 -27.03 90.29 293.28 63.73 4 35 17 2320.6 -30.33 82.40

DIFFERENTIAL CORRECTIONS

TDE 1.3800 TRA 1.8384 TC3-5.4849 BAU 1.1413
 RDE .3463 RRA .1513 RC3 -.1711 FAU .03460
 FDE .4728 FRA 1.1663 FC3-1.9254 BSP 18867
 BOE 1.4228 BRA 1.8446 BC3 5.4876 FSP -793

MID-COURSE EXECUTION ACCURACY

SGT 5823.8 SGR 589.0 SG3 233.1
 RRT .7324 RRF .7137 RTF .9573
 SGB 5853.5 R23 .0136 R13 .9574
 SG1 5839.9 SG2 400.0 THA 4.26

ORBIT DETERMINATION ACCURACY

ST 2245.3 SR 509.8 SS 573.9
 CRT .9538 CRS -.8333 CST -.9602
 LSA 2362.6 MSA 220.7 SSA 19.2
 EL1 2297.6 EL2 149.7 ALF 12.27

LAUNCH DATE FEB 4 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 26.818 GAL 4.54 AZL 87.95 HCA 264.57 SMA 122.81 ECC .21526 INC 2.0453 VI 30.211
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.040 GAP 10.42 AZP 90.19 TAL 162.98 TAP 67.54 RCA 96.38 APO 149.25 V2 35.016
 RC 169.445 GL 13.57 GP -14.66 ZAL 62.90 ZAP 161.65 ETS 311.10 ZAE 128.91 ETE 191.70 ZAC 146.41 ETC 179.45 CLP-168.84

PLANETOCENTRIC CONIC
 C3 16.543 VHL 4.067 DLA 35.80 RAL 69.43 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 7.305 OPA 2.55 RAP 53.25 ECC 1.2723
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.12 22 13 44 4017.92 -25.82 172.19 297.31 64.29 23 20 42 3417.9 -29.06 164.36
 112.88 3 49 54 2966.21 -25.81 93.29 297.30 64.28 4 39 20 2366.2 -29.05 85.47
 67.12 22 13 44 4017.92 -25.82 172.19 297.31 64.29 23 20 42 3417.9 -29.06 164.36
 112.88 3 49 54 2966.21 -25.81 93.29 297.30 64.28 4 39 20 2366.2 -29.05 85.47
 67.12 22 13 44 4017.92 -25.82 172.19 297.31 64.29 23 20 42 3417.9 -29.06 164.36
 112.88 3 49 54 2966.21 -25.81 93.29 297.30 64.28 4 39 20 2366.2 -29.05 85.47

DIFFERENTIAL CORRECTIONS
 TDE 1.2671 TRA 2.1018 TC3-5.2016 BAU 1.1509
 RDE .3482 RRA .1646 RC3 -.1542 FAU .03217
 FDE .3942 FRA 1.2216 FC3-1.6837 BSP 19057
 BDE 1.3140 BRA 2.1083 BC3 5.2038 FSP -764

MID-COURSE EXECUTION ACCURACY
 SGT 5866.5 SGR 581.4 SG3 223.4
 RRT .7183 RRF .6990 RTF .9580
 SGB 5895.3 R23 .0109 R13 .9580
 SG1 5881.4 SG2 403.5 THA 4.09

ORBIT DETERMINATION ACCURACY
 ST 2097.9 SR 497.9 SS 533.8
 CRT .9284 CRS -.7768 CST -.9545
 LSA 2207.8 MSA 243.3 SSA 18.6
 EL1 2148.6 EL2 180.6 ALF 12.52

LAUNCH DATE FEB 4 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 26.782 GAL 5.06 AZL 88.12 HCA 267.77 SMA 122.59 ECC .22056 INC 1.8826 VI 30.211
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.027 GAP 10.83 AZP 90.07 TAL 161.50 TAP 69.26 RCA 95.56 APO 149.63 V2 35.030
 RC 171.498 GL 12.02 GP -14.12 ZAL 60.19 ZAP 162.65 ETS 309.58 ZAE 128.90 ETE 191.27 ZAC 148.52 ETC 178.97 CLP-169.82

PLANETOCENTRIC CONIC
 C3 17.724 VHL 4.210 DLA 34.60 RAL 72.76 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 7.538 OPA 3.71 RAP 55.15 ECC 1.2917
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.24 22 39 5 3997.53 -24.56 169.91 301.30 64.82 23 45 43 3397.5 -27.73 162.15
 110.76 3 51 7 3018.43 -24.54 96.76 301.29 64.81 4 41 25 2418.4 -27.72 89.00
 69.24 22 39 5 3997.53 -24.56 169.91 301.30 64.82 23 45 43 3397.5 -27.73 162.15
 110.76 3 51 7 3018.43 -24.54 96.76 301.29 64.81 4 41 25 2418.4 -27.72 89.00
 69.24 22 39 5 3997.53 -24.56 169.91 301.30 64.82 23 45 43 3397.5 -27.73 162.15
 110.76 3 51 7 3018.43 -24.54 96.76 301.29 64.81 4 41 25 2418.4 -27.72 89.00

DIFFERENTIAL CORRECTIONS
 TDE 1.1519 TRA 2.3830 TC3-4.8810 BAU 1.1571
 RDE .3514 RRA .1791 RC3 -.1381 FAU .02973
 FDE .3230 FRA 1.2771 FC3-1.4524 BSP 19151
 BDE 1.2043 BRA 2.3897 BC3 4.8830 FSP -731

MID-COURSE EXECUTION ACCURACY
 SGT 5905.1 SGR 574.4 SG3 214.2
 RRT .7058 RRF .6865 RTF .9585
 SGB 5933.0 R23 .0095 R13 .9586
 SG1 5919.1 SG2 406.0 THA 3.95

ORBIT DETERMINATION ACCURACY
 ST 1967.1 SR 486.5 SS 502.8
 CRT .8937 CRS -.7101 CST -.9499
 LSA 2070.4 MSA 268.2 SSA 17.9
 EL1 2015.1 EL2 213.1 ALF 12.61

LAUNCH DATE FEB 4 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 26.746 GAL 5.61 AZL 88.28 HCA 270.97 SMA 122.38 ECC .22629 INC 1.7204 VI 30.211
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.014 GAP 11.27 AZP 89.97 TAL 160.02 TAP 70.99 RCA 94.69 APO 150.07 V2 35.043
 RC 173.532 GL 10.53 GP -13.63 ZAL 57.56 ZAP 163.60 ETS 307.81 ZAE 128.89 ETE 190.88 ZAC 150.65 ETC 178.41 CLP-170.79

PLANETOCENTRIC CONIC
 C3 19.124 VHL 4.373 DLA 33.39 RAL 75.91 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 7.787 OPA 4.80 RAP 57.10 ECC 1.3147
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.52 23 5 29 3973.17 -23.25 167.35 305.25 65.33 24 11 42 3373.2 -26.38 159.65
 108.48 3 49 53 3078.41 -23.24 100.77 305.24 65.32 4 41 11 2478.4 -26.37 93.08
 71.52 23 5 29 3973.17 -23.25 167.35 305.25 65.33 24 11 42 3373.2 -26.38 159.65
 108.48 3 49 53 3078.41 -23.24 100.77 305.24 65.32 4 41 11 2478.4 -26.37 93.08
 110.00 4 54 51 2879.31 -28.26 87.61 307.54 69.91 5 42 50 2279.3 -30.73 79.28
 110.00 3 3 37 3220.27 -18.41 109.15 302.61 60.68 3 57 17 2620.3 -22.18 102.04

DIFFERENTIAL CORRECTIONS
 TDE 1.0275 TRA 2.6748 TC3-4.5485 BAU 1.1634
 RDE .3553 RRA .1940 RC3 -.1240 FAU .02748
 FDE .2546 FRA 1.3287 FC3-1.2441 BSP 19323
 BDE 1.0872 BRA 2.6818 BC3 4.5502 FSP -704

MID-COURSE EXECUTION ACCURACY
 SGT 5937.7 SGR 566.7 SG3 205.2
 RRT .6943 RRF .6746 RTF .9592
 SGB 5964.7 R23 .0077 R13 .9593
 SG1 5950.8 SG2 407.0 THA 3.81

ORBIT DETERMINATION ACCURACY
 ST 1847.2 SR 474.4 SS 477.4
 CRT .8468 CRS -.6313 CST -.9464
 LSA 1943.7 MSA 294.7 SSA 17.2
 EL1 1891.1 EL2 246.4 ALF 12.48

LAUNCH DATE FEB 4 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC
 RL 147.48 LAL .00 LOL 135.01 VL 26.711 GAL 6.19 AZL 88.44 HCA 274.18 SMA 122.17 ECC .23250 INC 1.5578 VI 30.211
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.001 GAP 11.73 AZP 89.89 TAL 158.56 TAP 72.73 RCA 93.76 APO 150.57 V2 35.056
 RC 175.544 GL 9.11 GP -13.18 ZAL 55.03 ZAP 164.49 ETS 305.78 ZAE 128.87 ETE 190.53 ZAC 152.79 ETC 177.77 CLP-171.75

PLANETOCENTRIC CONIC
 C3 20.772 VHL 4.558 DLA 32.19 RAL 78.89 RAD 6567.8 VEL 11.923 PTH 2.12 VHP 8.053 OPA 5.83 RAP 59.09 ECC 1.3419
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.01 23 33 27 3942.98 -21.92 164.38 309.16 65.82 24 39 10 3343.0 -25.00 156.74
 105.99 3 45 39 3147.92 -21.91 105.46 309.16 65.81 4 38 7 2547.9 -24.99 97.82
 74.01 23 33 27 3942.98 -21.92 164.38 309.16 65.82 24 39 10 3343.0 -25.00 156.74
 105.99 3 45 39 3147.92 -21.91 105.46 309.16 65.81 4 38 7 2547.9 -24.99 97.82
 110.00 5 39 2 2797.44 -30.04 81.90 312.58 72.86 6 25 39 2197.4 -32.09 73.29
 110.00 2 43 10 3341.46 -14.24 116.06 304.91 58.59 3 38 52 2741.5 -18.29 109.29

DIFFERENTIAL CORRECTIONS
 TDE .8992 TRA 2.9834 TC3-4.2019 BAU 1.1673
 RDE .3600 RRA .2097 RC3 -.1109 FAU .02530
 FDE .1916 FRA 1.3795 FC3-1.0544 BSP 19466
 BDE .9686 BRA 2.9908 BC3 4.2034 FSP -678

MID-COURSE EXECUTION ACCURACY
 SGT 5965.7 SGR 558.7 SG3 196.7
 RRT .6840 RRF .6642 RTF .9600
 SGB 5991.8 R23 .0062 R13 .9600
 SG1 5978.0 SG2 406.7 THA 3.68

ORBIT DETERMINATION ACCURACY
 ST 1748.9 SR 462.2 SS 459.8
 CRT .7871 CRS -.5453 CST -.9456
 LSA 1838.6 MSA 320.8 SSA 16.5
 EL1 1787.3 EL2 278.9 ALF 12.05

LAUNCH DATE FEB 4 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 569.019

RL 147.48 LAL .00 LOL 135.01 VL 26.675 GAL 6.81 AZL 88.61 HCA 277.38 SMA 121.95 ECC .23924 INC 1.3938 V1 30.211
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.988 GAP 12.22 AZP 89.82 TAL 157.10 TAP 74.49 RCA 92.78 APO 151.13 V2 35.069
 RC 177.535 GL 7.77 GP -12.76 ZAL 52.60 ZAP 165.32 ETS 303.46 ZAE 128.85 ETE 190.21 ZAC 154.94 ETC 177.01 CLP-172.70

PLANETOCENTRIC CONIC

C3 22.703 VHL 4.765 DLA 31.01 RAL 81.69 RAD 6567.9 VEL 12.003 PTH 2.14 VHP 8.337 DPA 6.81 RAP 61.12 ECC 1.3736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.81 0 7 51 3903.89 -20.58 160.78 313.04 66.28 1 12 55 3303.9 -23.61 153.20
 103.19 3 37 31 3229.92 -20.57 111.03 313.03 66.27 4 31 21 2629.9 -23.60 103.45
 76.81 0 7 51 3903.89 -20.58 160.78 313.04 66.28 1 12 55 3303.9 -23.61 153.20
 103.19 3 37 31 3229.92 -20.57 111.03 313.03 66.27 4 31 21 2629.9 -23.60 103.45
 110.00 6 12 59 2745.38 -31.02 78.17 317.12 74.87 6 58 44 2145.4 -32.79 69.39
 110.00 2 31 34 3436.42 -10.81 121.28 307.61 57.37 3 28 50 2836.4 -15.03 114.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7665 TRA 3.3094 TC3-3.8501 BAU 1.1690 SGT 5989.0 SGR 550.2 SG3 188.5 ST 1673.9 SR 449.7 SS 449.0
 RDE .3655 RRA .2261 RC3 -.0987 FAU .02319 RRT .6748 RRF .6549 RTF .9608 CRT .7147 CRS -.4559 CST -.9477
 FDE .1333 FRA 1.4298 FC3 -.8845 BSP 19597 SGB 6014.2 R23 .0050 R13 .9608 LSA 1756.9 MSA 344.5 SSA 15.8
 BDE .8492 BRA 3.3171 BC3 3.8514 FSP -652 SG1 6000.6 SG2 405.2 THA 3.56 EL1 1705.5 EL2 308.7 ALF 11.24

LAUNCH DATE FEB 4 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 574.412

RL 147.48 LAL .00 LOL 135.01 VL 26.641 GAL 7.46 AZL 88.77 HCA 280.59 SMA 121.75 ECC .24656 INC 1.2272 V1 30.211
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.975 GAP 12.75 AZP 89.77 TAL 155.67 TAP 76.26 RCA 91.73 APO 151.76 V2 35.083
 RC 179.506 GL 6.50 GP -12.39 ZAL 50.28 ZAP 166.10 ETS 300.80 ZAE 128.82 ETE 189.92 ZAC 157.09 ETC 176.11 CLP-173.65

PLANETOCENTRIC CONIC

C3 24.958 VHL 4.996 DLA 29.85 RAL 84.31 RAD 6568.0 VEL 12.097 PTH 2.17 VHP 8.643 DPA 7.72 RAP 63.19 ECC 1.4108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.15 0 43 1 3848.63 -19.24 156.03 316.87 66.73 1 47 10 3248.6 -22.22 148.51
 99.85 3 23 18 3331.54 -19.22 118.00 316.87 66.72 4 18 50 2731.5 -22.21 110.48
 100.00 3 38 11 3284.00 -20.41 115.00 317.40 67.68 4 32 55 2684.0 -23.26 107.36
 100.00 3 10 49 3371.40 -18.06 120.42 316.33 65.77 4 7 1 2771.4 -21.18 113.02
 110.00 6 41 46 2708.01 -31.66 75.44 321.45 76.37 7 26 54 2108.0 -33.20 66.55
 110.00 2 23 45 3520.15 -7.70 125.77 310.49 56.59 3 22 25 2920.2 -12.04 119.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6334 TRA 3.6575 TC3-3.4934 BAU 1.1660 SGT 6008.3 SGR 541.4 SG3 180.8 ST 1625.9 SR 437.4 SS 444.6
 RDE .3719 RRA .2434 RC3 -.0868 FAU .02108 RRT .6669 RRF .6475 RTF .9616 CRT .6331 CRS -.3703 CST -.9529
 FDE .0810 FRA 1.4817 FC3 -.7314 BSP 19627 SGB 6032.6 R23 .0044 R13 .9616 LSA 1703.0 MSA 363.4 SSA 15.1
 BDE .7345 BRA 3.6655 BC3 3.4945 FSP -623 SG1 6019.2 SG2 402.7 THA 3.45 EL1 1650.3 EL2 333.5 ALF 10.08

LAUNCH DATE FEB 4 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 579.729

RL 147.48 LAL .00 LOL 135.01 VL 26.606 GAL 8.16 AZL 88.94 HCA 283.81 SMA 121.54 ECC .25452 INC 1.0570 V1 30.211
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.962 GAP 13.31 AZP 89.75 TAL 154.25 TAP 78.06 RCA 90.61 APO 152.48 V2 35.095
 RC 181.455 GL 5.31 GP -12.04 ZAL 48.07 ZAP 166.82 ETS 297.79 ZAE 128.77 ETE 189.65 ZAC 159.24 ETC 175.00 CLP-174.60

PLANETOCENTRIC CONIC

C3 27.590 VHL 5.253 DLA 28.72 RAL 86.77 RAD 6568.1 VEL 12.205 PTH 2.19 VHP 8.972 DPA 8.58 RAP 65.28 ECC 1.4541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.00 1 31 22 3749.60 -17.90 148.12 320.67 67.16 2 33 52 3149.6 -20.84 140.65
 95.00 2 54 34 3480.22 -17.89 128.38 320.66 67.15 3 52 34 2880.2 -20.83 120.91
 100.00 4 44 33 3126.53 -24.14 104.79 323.17 71.81 5 36 40 2526.5 -26.40 96.72
 100.00 2 24 4 3578.52 -11.86 132.68 317.73 62.36 3 23 43 2978.5 -15.47 125.75
 110.00 7 7 3 2680.42 -32.08 75.40 325.63 77.51 7 51 43 2080.4 -33.47 64.44
 110.00 2 18 4 3597.39 -4.78 129.85 313.47 56.11 3 18 1 2997.4 -9.20 123.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4922 TRA 4.0217 TC3-3.1504 BAU 1.1624 SGT 6021.9 SGR 531.3 SG3 173.5 ST 1596.9 SR 424.3 SS 444.2
 RDE .3786 RRA .2609 RC3 -.0762 FAU .01915 RRT .6595 RRF .6402 RTF .9627 CRT .5432 CRS -.2863 CST -.9594
 FDE .0308 FRA 1.5321 FC3 -.6008 BSP 19744 SGB 6045.3 R23 .0033 R13 .9627 LSA 1668.9 MSA 376.9 SSA 14.5
 BDE .6210 BRA 4.0301 BC3 3.1513 FSP -600 SG1 6032.1 SG2 398.7 THA 3.34 EL1 1614.3 EL2 352.4 ALF 8.63

LAUNCH DATE FEB 4 1969

FLIGHT TIME 204.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 584.956

RL 147.48 LAL .00 LOL 135.01 VL 26.572 GAL 8.91 AZL 89.12 HCA 287.02 SMA 121.34 ECC .26321 INC .8819 V1 30.211
 RP 107.94 LAP -.84 LOP 62.03 VP 36.950 GAP 13.91 AZP 89.74 TAL 152.86 TAP 79.88 RCA 89.40 APO 153.28 V2 35.108
 RC 183.384 GL 4.19 GP -11.73 ZAL 45.98 ZAP 167.47 ETS 294.38 ZAE 128.72 ETE 189.40 ZAC 161.38 ETC 173.64 CLP-175.55

PLANETOCENTRIC CONIC

C3 30.659 VHL 5.537 DLA 27.63 RAL 89.07 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 9.327 DPA 9.38 RAP 67.40 ECC 1.5046
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 1 3462.55 -21.35 128.49 326.33 70.94 4 14 44 2862.5 -23.75 120.65
 90.00 1 27 13 3820.02 -11.91 150.46 322.26 64.12 2 30 53 3220.0 -15.29 143.41
 100.00 5 20 56 3063.08 -25.42 100.51 327.74 73.71 6 11 59 2463.1 -27.41 92.27
 100.00 2 5 59 3694.73 -8.12 139.27 320.27 61.13 3 7 34 3094.7 -11.91 132.53
 110.00 7 29 39 2660.28 -32.37 71.90 329.72 78.35 8 13 59 2060.3 -33.63 62.89
 110.00 2 13 46 3670.29 -2.01 133.66 316.51 55.87 3 14 56 3070.3 -6.47 127.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3470 TRA 4.4080 TC3-2.8176 BAU 1.1552 SGT 6030.7 SGR 520.4 SG3 166.5 ST 1588.4 SR 411.0 SS 447.5
 RDE .3858 RRA .2788 RC3 -.0662 FAU .01727 RRT .6528 RRF .6338 RTF .9639 CRT .4510 CRS -.2095 CST -.9667
 FDE -.0155 FRA 1.5835 FC3 -.4877 BSP 19851 SGB 6053.1 R23 .0024 R13 .9640 LSA 1656.7 MSA 383.8 SSA 13.9
 BDE .5189 BRA 4.4168 BC3 2.8184 FSP -577 SG1 6040.3 SG2 393.6 THA 3.24 EL1 1599.8 EL2 364.2 ALF 7.02

LAUNCH DATE FEB 4 1969

FLIGHT TIME 206.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 590.079

RL 147.48 LAL .00 LOL 135.01 VL 26.538 GAL 9.71 AZL 89.30 HCA 290.24 SMA 121.14 ECC .27271 INC .7005 V1 30.211
 RP 107.90 LAP -.66 LOP 65.24 VP 36.937 GAP 14.56 AZP 89.76 TAL 151.50 TAP 81.74 RCA 88.10 APO 154.18 V2 35.120
 RC 185.291 GL 3.13 GP -11.44 ZAL 44.02 ZAP 168.05 ETS 290.54 ZAE 128.64 ETE 189.17 ZAC 163.50 ETC 171.91 CLP-176.51

PLANETOCENTRIC CONIC

C3 34.241 VHL 5.852 DLA 26.57 RAL 91.20 RAD 6568.3 VEL 12.474 PTH 2.26 VHP 9.712 DPA 10.12 RAP 69.54 ECC 1.5635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 46 3383.65 -23.01 123.31 331.03 73.03 4 54 9 2783.7 -25.12 115.27
 90.00 1 3 31 3954.57 -7.80 158.21 324.63 62.69 2 9 26 3354.6 -11.40 151.38
 100.00 5 49 48 3022.47 -26.16 97.72 332.02 75.00 6 40 10 2422.5 -27.97 89.38
 100.00 1 54 10 3790.98 -4.92 144.62 323.06 60.48 2 57 21 3191.0 -8.81 138.00
 110.00 7 50 3 2646.19 -32.56 70.84 333.72 78.95 8 34 9 2046.2 -33.74 61.81
 110.00 2 10 24 3740.03 .66 137.30 319.60 55.82 3 12 44 3140.0 -3.83 131.09

DIFFERENTIAL CORRECTIONS

TOE .1982 TRA 4.8194 TC3-2.4978 BAU 1.1437
 RDE .3935 RRA .2970 RC3 -.0568 FAU .01544
 FDE -.0584 FRA 1.6367 FC3 -.3905 BSP 19921
 BOE .4406 BRA 4.8286 BC3 2.4985 FSP -555

MID-COURSE EXECUTION ACCURACY

SGT 6035.0 SGR 508.5 SG3 159.8
 RRT .6466 RRF .6281 RTF .9654
 SGB 6056.4 R23 .0016 R13 .9654
 SG1 6044.0 SG2 387.3 THA 3.13

ORBIT DETERMINATION ACCURACY

ST 1597.1 SR 397.5 SS 453.8
 CRT .3613 CRS -.1415 CST -.9737
 LSA 1663.3 MSA 384.5 SSA 13.3
 EL1 1603.9 EL2 369.0 ALF 5.43

LAUNCH DATE FEB 4 1969

FLIGHT TIME 208.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 595.079

RL 147.48 LAL .00 LOL 135.01 VL 26.505 GAL 10.57 AZL 89.49 HCA 293.46 SMA 120.94 ECC .28313 INC .5112 V1 30.211
 RP 107.87 LAP -.47 LOP 68.46 VP 36.925 GAP 15.26 AZP 89.80 TAL 150.18 TAP 83.64 RCA 86.70 APO 155.19 V2 35.132
 RC 187.175 GL 2.15 GP -11.17 ZAL 42.18 ZAP 168.55 ETS 286.24 ZAE 128.55 ETE 188.95 ZAC 165.60 ETC 169.67 CLP-177.48

PLANETOCENTRIC CONIC

C3 38.429 VHL 6.199 DLA 25.56 RAL 93.18 RAD 6568.5 VEL 12.641 PTH 2.29 VHP 10.131 DPA 10.81 RAP 71.69 ECC 1.6324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 56 3337.70 -23.89 120.22 335.32 74.33 5 23 33 2737.7 -25.81 112.08
 90.00 0 49 10 4058.82 -4.50 164.09 327.36 62.01 1 56 49 3458.8 -8.21 157.38
 100.00 6 14 17 2994.79 -26.64 95.80 336.12 75.91 7 4 12 2394.8 -28.31 87.40
 100.00 1 45 30 3876.96 -2.02 149.36 325.98 60.17 2 50 6 3277.0 -5.97 142.80
 110.00 8 8 34 2637.23 -32.67 70.17 337.65 79.34 8 52 31 2037.2 -33.80 61.11
 110.00 2 7 42 3807.28 3.23 140.81 322.72 55.95 3 11 9 3207.3 -1.26 134.61

DIFFERENTIAL CORRECTIONS

TOE .0483 TRA 5.2611 TC3-2.1907 BAU 1.1258
 RDE .4019 RRA .3154 RC3 -.0476 FAU .01360
 FDE -.0970 FRA 1.6934 FC3 -.3064 BSP 19897
 BOE .4048 BRA 5.2705 BC3 2.1912 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 6036.0 SGR 495.8 SG3 153.6
 RRT .6411 RRF .6235 RTF .9670
 SGB 6056.3 R23 .0014 R13 .9670
 SG1 6044.4 SG2 380.0 THA 3.03

ORBIT DETERMINATION ACCURACY

ST 1619.7 SR 383.9 SS 462.4
 CRT .2790 CRS -.0846 CST -.9800
 LSA 1685.3 MSA 379.7 SSA 12.8
 EL1 1623.5 EL2 367.8 ALF 3.99

LAUNCH DATE FEB 4 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 599.932

RL 147.48 LAL .00 LOL 135.01 VL 26.472 GAL 11.50 AZL 89.69 HCA 296.68 SMA 120.75 ECC .29457 INC .3123 V1 30.211
 RP 107.83 LAP -.28 LOP 71.68 VP 36.912 GAP 16.02 AZP 89.86 TAL 148.91 TAP 85.58 RCA 85.18 APO 156.32 V2 35.144
 RC 189.037 GL 1.23 GP -10.92 ZAL 40.46 ZAP 168.97 ETS 281.48 ZAE 128.44 ETE 188.74 ZAC 167.66 ETC 166.68 CLP-178.47

PLANETOCENTRIC CONIC

C3 43.336 VHL 6.583 DLA 24.60 RAL 95.02 RAD 6568.6 VEL 12.834 PTH 2.34 VHP 10.589 DPA 11.45 RAP 73.85 ECC 1.7132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 53 3307.54 -24.43 118.18 339.40 75.22 5 48 0 2707.5 -26.22 109.97
 90.00 0 38 51 4149.64 -1.59 169.17 330.23 61.72 1 48 1 3549.6 -5.36 162.52
 100.00 6 35 41 2976.06 -26.94 94.49 340.10 76.53 7 25 18 2376.1 -28.53 86.05
 100.00 1 38 43 3956.36 .68 153.71 328.97 60.11 2 44 40 3356.4 -3.30 147.19
 110.00 8 25 26 2632.72 -32.73 69.83 341.52 79.53 9 9 19 2032.7 -33.82 60.77
 110.00 2 5 28 3872.46 5.70 144.23 325.85 56.24 3 10 1 3272.5 1.23 138.01

DIFFERENTIAL CORRECTIONS

TOE -.1106 TRA 5.7284 TC3-1.9062 BAU 1.1046
 RDE .4103 RRA .3333 RC3 -.0395 FAU .01188
 FDE -.1347 FRA 1.7514 FC3 -.2373 BSP 19967
 BOE .4250 BRA 5.7380 BC3 1.9066 FSP -510

MID-COURSE EXECUTION ACCURACY

SGT 6031.1 SGR 481.7 SG3 147.7
 RRT .6352 RRF .6185 RTF .9688
 SGB 6050.3 R23 .0009 R13 .9688
 SG1 6038.9 SG2 371.6 THA 2.92

ORBIT DETERMINATION ACCURACY

ST 1649.5 SR 369.7 SS 472.5
 CRT .2020 CRS -.0329 CST -.9851
 LSA 1715.6 MSA 370.8 SSA 12.3
 EL1 1651.3 EL2 361.7 ALF 2.72

LAUNCH DATE FEB 4 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 604.608

RL 147.48 LAL .00 LOL 135.01 VL 26.440 GAL 12.50 AZL 89.90 HCA 299.90 SMA 120.57 ECC .30718 INC .1014 V1 30.211
 RP 107.79 LAP -.09 LOP 74.90 VP 36.900 GAP 16.86 AZP 89.95 TAL 147.69 TAP 87.59 RCA 83.53 APO 157.60 V2 35.155
 RC 190.875 GL .38 GP -10.70 ZAL 38.87 ZAP 169.29 ETS 276.27 ZAE 128.30 ETE 188.55 ZAC 169.65 ETC 162.52 CLP-179.48

PLANETOCENTRIC CONIC

C3 49.106 VHL 7.008 DLA 23.68 RAL 96.71 RAD 6568.8 VEL 13.056 PTH 2.38 VHP 11.091 DPA 12.03 RAP 76.00 ECC 1.8082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 21 3287.58 -24.77 116.82 343.34 75.82 6 9 9 2687.6 -26.48 108.56
 90.00 0 30 52 4232.32 1.08 173.78 333.18 61.70 1 41 24 3632.3 -2.71 167.15
 100.00 6 54 40 2964.14 -27.13 93.65 343.97 76.94 7 44 4 2364.1 -28.65 85.19
 100.00 1 33 14 4031.00 3.20 157.81 332.01 60.26 2 40 25 3431.0 -1.78 151.29
 110.00 8 40 48 2632.09 -32.74 69.78 345.32 79.56 9 24 40 2032.1 -33.83 60.72
 110.00 2 3 35 3935.81 8.09 147.59 329.00 56.67 3 9 11 3335.8 3.65 141.32

DIFFERENTIAL CORRECTIONS

TOE -.2752 TRA 6.2291 TC3-1.6399 BAU 1.0768
 RDE .4192 RRA .3507 RC3 -.0319 FAU .01018
 FDE -.1703 FRA 1.8131 FC3 -.1795 BSP 20012
 BOE .5014 BRA 6.2390 BC3 1.6403 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 6021.6 SGR 466.4 SG3 142.0
 RRT .6292 RRF .6135 RTF .9709
 SGB 6039.7 R23 .0005 R13 .9709
 SG1 6028.8 SG2 362.0 THA 2.80

ORBIT DETERMINATION ACCURACY

ST 1684.9 SR 355.4 SS 484.1
 CRT .1331 CRS .0117 CST -.9891
 LSA 1752.3 MSA 359.0 SSA 11.8
 EL1 1685.6 EL2 352.0 ALF 1.68

LAUNCH DATE FEB 4 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 609.072

RL 147.48 LAL .00 LOL 135.01 VL 26.408 GAL 13.60 AZL 90.12 HCA 303.12 SMA 120.38 ECC .32113 INC .1217 V1 30.211
 RP 107.76 LAP .10 LOP 78.13 VP 36.888 GAP 17.77 AZP 90.07 TAL 146.53 TAP 89.66 RCA 81.72 APO 159.04 V2 35.166
 RC 192.690 GL -.42 GP -10.49 ZAL 37.40 ZAP 169.50 ETS 270.64 ZAE 128.12 ETE 188.35 ZAC 171.54 ETC 156.48 CLP 179.49

PLANETOCENTRIC CONIC

C3 55.919 VHL 7.478 DLA 22.80 RAL 98.26 RAD 6569.0 VEL 13.315 PTH 2.43 VHP 11.643 DPA 12.56 RAP 78.15 ECC 1.9203
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 12 3275.06 -24.97 115.96 347.15 76.20 6 27 47 2675.1 -26.63 107.68
 90.00 0 24 22 4309.28 3.56 178.08 336.18 61.89 1 36 11 3709.3 -.23 171.45
 100.00 7 11 38 2957.68 -27.23 93.20 347.74 77.16 8 0 55 2357.7 -28.72 84.72
 100.00 1 28 37 4101.89 5.59 161.73 335.06 60.59 2 36 59 3501.9 1.63 155.18
 110.00 8 54 48 2634.88 -32.70 69.99 349.05 79.44 9 38 43 2034.9 -33.81 60.93
 110.00 2 1 56 3997.45 10.38 150.90 332.15 57.25 3 8 33 3397.5 5.99 144.56

DIFFERENTIAL CORRECTIONS

TDE -.4468 TRA 6.7675 TC3-1.3916 BAU 1.0405
 RDE .4284 RRA .3673 RC3 -.0249 FAU .00849
 FDE -.2039 FRA 1.8796 FC3 -.1314 BSP 20045
 BDE .6190 BRA 6.7775 BC3 1.3919 FSP -472

MID-COURSE EXECUTION ACCURACY

SGT 6007.5 SGR 449.9 SG3 136.7
 RRT .6226 RRF .6084 RTF .9731
 SGB 6024.3 R23 .0005 R13 .9731
 SG1 6014.0 SG2 351.6 THA 2.68

ORBIT DETERMINATION ACCURACY

ST 1723.0 SR 340.8 SS 497.0
 CRT .0720 CRS .0496 CST -.9923
 LSA 1792.4 MSA 345.0 SSA 11.3
 EL1 1723.2 EL2 339.9 ALF .85

LAUNCH DATE FEB 4 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 613.278

RL 147.48 LAL .00 LOL 135.01 VL 26.377 GAL 14.79 AZL 90.36 HCA 306.35 SMA 120.21 ECC .33661 INC .3642 V1 30.211
 RP 107.73 LAP .29 LOP 81.36 VP 36.876 GAP 18.78 AZP 90.22 TAL 145.46 TAP 91.81 RCA 79.74 APO 160.67 V2 35.177
 RC 194.480 GL -1.16 GP -10.30 ZAL 36.07 ZAP 169.58 ETS 264.66 ZAE 127.91 ETE 188.17 ZAC 173.25 ETC 147.28 CLP 178.42

PLANETOCENTRIC CONIC

C3 64.000 VHL 8.000 DLA 21.98 RAL 99.66 RAD 6569.2 VEL 13.615 PTH 2.49 VHP 12.255 DPA 13.04 RAP 80.29 ECC 2.0533
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 53 3268.32 -25.08 115.49 350.84 76.41 6 44 21 2668.3 -26.71 107.20
 90.00 0 18 54 4381.76 5.87 182.15 339.18 62.25 1 31 55 3781.8 2.11 175.49
 100.00 7 26 50 2955.72 -27.25 93.06 351.41 77.22 8 16 5 2355.7 -28.74 84.57
 100.00 1 24 38 4169.59 7.83 165.49 338.11 61.06 2 34 7 3569.6 3.91 158.90
 110.00 9 7 32 2640.66 -32.63 70.43 352.70 79.19 9 51 33 2040.7 -33.77 61.38
 110.00 2 0 25 4057.42 12.56 154.16 335.28 57.95 3 8 2 3457.4 8.24 147.74

DIFFERENTIAL CORRECTIONS

TDE -.6176 TRA 7.3528 TC3-1.1614 BAU .9939
 RDE .4383 RRA .3829 RC3 -.0185 FAU .00672
 FDE -.2349 FRA 1.9531 FC3 -.0909 BSP 19949
 BDE .7573 BRA 7.3627 BC3 1.1616 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 5991.5 SGR 432.3 SG3 131.7
 RRT .6160 RRF .6032 RTF .9754
 SGB 6007.1 R23 .0005 R13 .9754
 SG1 5997.4 SG2 340.2 THA 2.55

ORBIT DETERMINATION ACCURACY

ST 1761.0 SR 326.2 SS 511.2
 CRT .0215 CRS .0804 CST -.9946
 LSA 1833.0 MSA 330.0 SSA 10.8
 EL1 1761.0 EL2 326.2 ALF .24

LAUNCH DATE FEB 4 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 617.165

RL 147.48 LAL .00 LOL 135.01 VL 26.347 GAL 16.11 AZL 90.63 HCA 309.58 SMA 120.04 ECC .35384 INC .6276 V1 30.211
 RP 107.70 LAP .48 LOP 84.58 VP 36.864 GAP 19.90 AZP 90.40 TAL 144.47 TAP 94.05 RCA 77.56 APO 162.51 V2 35.187
 RC 196.245 GL -1.85 GP -10.12 ZAL 34.86 ZAP 169.53 ETS 258.44 ZAE 127.64 ETE 187.98 ZAC 174.66 ETC 132.83 CLP 177.31

PLANETOCENTRIC CONIC

C3 73.642 VHL 8.581 DLA 21.21 RAL 100.93 RAD 6569.4 VEL 13.964 PTH 2.55 VHP 12.936 DPA 13.47 RAP 82.40 ECC 2.2120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 43 3266.24 -25.12 115.35 354.41 76.48 6 59 9 2666.2 -26.73 107.05
 90.00 0 14 9 4450.45 8.03 186.04 342.17 62.76 1 28 20 3850.4 4.32 179.33
 100.00 7 40 27 2957.52 -27.23 93.19 354.96 77.16 8 29 45 2357.5 -28.72 84.71
 100.00 1 21 6 4234.41 9.95 169.14 341.15 61.67 2 31 40 3634.4 6.09 162.48
 110.00 9 19 3 2649.03 -32.52 71.06 356.25 78.83 10 3 12 2049.0 -33.72 62.03
 110.00 1 58 59 4115.66 14.65 157.39 338.40 58.76 3 7 34 3515.7 10.40 150.86

DIFFERENTIAL CORRECTIONS

TDE -.8026 TRA 7.9807 TC3 -.9526 BAU .9379
 RDE .4485 RRA .3963 RC3 -.0129 FAU .00498
 FDE -.2665 FRA 2.0319 FC3 -.0586 BSP 19981
 BDE .9194 BRA 7.9906 BC3 .9527 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 5968.8 SGR 413.1 SG3 127.0
 RRT .6074 RRF .5962 RTF .9779
 SGB 5983.1 R23 .0006 R13 .9779
 SG1 5974.1 SG2 327.9 THA 2.41

ORBIT DETERMINATION ACCURACY

ST 1797.1 SR 311.3 SS 526.9
 CRT -.0258 CRS .1097 CST -.9963
 LSA 1872.3 MSA 314.0 SSA 10.3
 EL1 1797.1 EL2 311.2 ALF 179.74

LAUNCH DATE FEB 4 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 620.658

RL 147.48 LAL .00 LOL 135.01 VL 26.319 GAL 17.56 AZL 90.92 HCA 312.80 SMA 119.87 ECC .37311 INC .9165 V1 30.211
 RP 107.67 LAP .67 LOP 87.81 VP 36.852 GAP 21.15 AZP 90.62 TAL 143.61 TAP 96.41 RCA 75.15 APO 164.60 V2 35.196
 RC 197.986 GL -2.49 GP -9.95 ZAL 33.80 ZAP 169.33 ETS 252.10 ZAE 127.32 ETE 187.79 ZAC 175.51 ETC 111.31 CLP 176.14

PLANETOCENTRIC CONIC

C3 85.219 VHL 9.231 DLA 20.48 RAL 102.05 RAD 6569.7 VEL 14.372 PTH 2.61 VHP 13.697 DPA 13.85 RAP 84.46 ECC 2.4025
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 52 3267.98 -25.09 115.47 357.83 76.42 7 12 20 2668.0 -26.71 107.18
 90.00 0 9 55 4515.72 10.05 189.78 345.12 63.39 1 25 11 3915.7 6.39 183.01
 100.00 7 52 37 2962.46 -27.15 93.54 358.37 76.99 8 41 59 2362.5 -28.67 85.06
 100.00 1 17 51 4296.47 11.93 172.68 344.13 62.39 2 29 28 3696.5 8.14 165.95
 110.00 9 29 25 2659.61 -32.38 71.85 359.69 78.38 10 13 45 2059.6 -33.64 62.84
 110.00 1 57 33 4172.08 16.61 160.58 341.46 59.69 3 7 5 3572.1 12.46 153.93

DIFFERENTIAL CORRECTIONS

TDE -.9949 TRA 8.6639 TC3 -.7613 BAU .8674
 RDE .4593 RRA .4072 RC3 -.0080 FAU .00315
 FDE -.2971 FRA 2.1192 FC3 -.0320 BSP 19972
 BDE 1.0958 BRA 8.6735 BC3 .7614 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 5941.9 SGR 392.7 SG3 122.5
 RRT .5970 RRF .5876 RTF .9804
 SGB 5954.9 R23 .0008 R13 .9804
 SG1 5946.6 SG2 314.8 THA 2.27

ORBIT DETERMINATION ACCURACY

ST 1829.9 SR 296.3 SS 544.2
 CRT -.0676 CRS .1356 CST -.9975
 LSA 1908.9 MSA 297.6 SSA 9.8
 EL1 1830.0 EL2 295.6 ALF 179.36

LAUNCH DATE FEB 5 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 16 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 25.084 GAL -2.83 AZL 87.47 HCA 74.46 SMA 113.40 ECC .30434 INC 2.5330 V1 30.206
 RP 108.07 LAP 2.44 LOP 210.46 VP 35.858 GAP -17.52 AZP 89.32 TAL 186.50 TAP 260.96 RCA 78.89 APO 147.92 V2 35.067
 RC 43.658 GL 11.60 GP 9.30 ZAL 105.95 ZAP 10.44 ETS 245.31 ZAE 159.54 ETE 1.61 ZAC 124.91 ETC 157.86 CLP 4.76

DISTANCE 173.114

PLANETOCENTRIC CONIC
 C3 30.297 VHL 5.504 DLA 22.20 RAL 23.26 RAD 6568.2 VEL 12.315 PTH 2.22 VHP 11.213 DPA 19.76 RAP 30.02 ECC 1.4986
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 38 20 3091.78 -27.32 103.06 260.56 82.25 1 29 51 2491.8 -28.11 94.48
 90.00 19 9 5 4184.82 -1.45 171.13 251.65 61.69 20 18 50 3584.8 -4.23 164.50
 100.00 2 15 39 2777.99 -29.27 80.25 260.83 83.66 3 1 57 2178.0 -29.84 71.49
 100.00 20 14 27 3973.84 1.27 154.67 250.69 60.13 21 20 41 3373.8 -2.71 148.15
 110.00 3 56 58 2460.98 -34.08 56.62 261.28 87.22 4 37 59 1861.0 -34.09 47.38
 110.00 20 49 37 3863.62 5.37 143.77 248.14 56.19 21 54 1 3263.6 .89 137.55

DIFFERENTIAL CORRECTIONS
 TDE -.3139 TRA -.5502 TC3 .2879 BAU .1170
 RDE -.3973 RRA .1070 RC3 .0236 FAU .02557
 FDE .2066 FRA .1792 FC3 -.7306 BSP 2161
 BDE .5063 BRA .5605 BC3 .2889 FSP -174

MID-COURSE EXECUTION ACCURACY
 SGT 768.0 SGR 431.5 SG3 74.0
 RRT .2081 RRF -.2317 RTF -.6838
 SGB 880.9 R23 -.0301 R13 -.6892
 SG1 775.4 SG2 418.0 THA 9.43

ORBIT DETERMINATION ACCURACY
 ST 375.9 SR 415.1 SS 217.7
 CRT .8231 CRS .9303 CST .9675
 LSA 576.9 MSA 166.8 SSA 18.2
 EL1 535.0 EL2 165.6 ALF 48.44

LAUNCH DATE FEB 5 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 25.381 GAL -2.90 AZL 87.64 HCA 77.67 SMA 114.87 ECC .28818 INC 2.3588 V1 30.206
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.054 GAP -16.41 AZP 89.50 TAL 187.22 TAP 264.88 RCA 81.77 APO 147.97 V2 35.053
 RC 44.405 GL 11.51 GP 9.83 ZAL 107.38 ZAP 10.22 ETS 256.46 ZAE 157.27 ETE 3.70 ZAC 125.83 ETC 156.99 CLP 2.83

DISTANCE 179.832

PLANETOCENTRIC CONIC
 C3 27.318 VHL 5.227 DLA 21.58 RAL 21.87 RAD 6568.1 VEL 12.194 PTH 2.19 VHP 10.592 DPA 20.74 RAP 31.05 ECC 1.4496
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 47 3037.15 -27.76 99.13 257.01 84.17 1 31 24 2437.2 -28.28 90.50
 90.00 18 55 34 4187.74 -1.36 171.30 248.43 61.69 20 5 22 3587.7 -4.14 164.66
 100.00 2 17 5 2726.63 -29.60 76.47 257.19 85.63 3 2 32 2126.6 -29.89 67.68
 100.00 20 1 57 3973.50 1.26 154.65 247.53 60.13 21 8 10 3373.5 -2.73 148.13
 110.00 3 56 41 2415.05 -34.18 53.04 257.43 89.34 4 36 56 1815.1 -33.89 43.81
 110.00 20 38 51 3857.84 5.15 143.46 245.11 56.16 21 43 9 3257.8 .67 137.24

DIFFERENTIAL CORRECTIONS
 TDE -.3116 TRA -.5259 TC3 .3539 BAU .1301
 RDE -.3804 RRA .1039 RC3 .0405 FAU .02735
 FDE .2088 FRA .1682 FC3 -.8667 BSP 2292
 BDE .4917 BRA .5361 BC3 .3562 FSP -198

MID-COURSE EXECUTION ACCURACY
 SGT 798.6 SGR 436.7 SG3 82.5
 RRT .2355 RRF -.2626 RTF -.7029
 SGB 910.2 R23 -.0347 R13 -.7091
 SG1 807.7 SG2 419.7 THA 10.09

ORBIT DETERMINATION ACCURACY
 ST 389.1 SR 418.7 SS 217.9
 CRT .8326 CRS .9362 CST .9668
 LSA 588.5 MSA 165.6 SSA 19.3
 EL1 547.2 EL2 164.9 ALF 47.52

LAUNCH DATE FEB 5 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 25.651 GAL -2.99 AZL 87.81 HCA 80.87 SMA 116.26 ECC .27336 INC 2.1889 V1 30.206
 RP 108.15 LAP 2.16 LOP 216.88 VP 36.232 GAP -15.36 AZP 89.65 TAL 188.01 TAP 268.88 RCA 84.48 APO 148.04 V2 35.040
 RC 45.309 GL 11.33 GP 10.41 ZAL 108.92 ZAP 10.44 ETS 267.88 ZAE 155.13 ETE 5.60 ZAC 126.68 ETC 156.04 CLP .87

DISTANCE 186.561

PLANETOCENTRIC CONIC
 C3 24.783 VHL 4.978 DLA 20.83 RAL 20.42 RAD 6568.0 VEL 12.090 PTH 2.16 VHP 10.002 DPA 21.74 RAP 32.02 ECC 1.4079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 10 2979.80 -28.09 94.96 253.45 86.24 1 33 49 2379.8 -28.31 86.30
 90.00 18 40 39 4196.90 -1.06 171.81 245.24 61.68 19 50 36 3596.9 -3.85 165.17
 100.00 2 19 23 2672.77 -29.81 72.48 253.55 87.72 3 3 55 2072.8 -29.81 63.67
 100.00 19 48 7 3979.17 1.45 154.96 244.40 60.14 20 54 26 3379.2 -2.53 148.44
 110.00 3 57 2 2367.22 -34.15 49.31 253.59 91.55 4 36 30 1767.2 -33.56 40.11
 110.00 20 26 56 3857.47 5.14 143.45 242.11 56.16 21 31 14 3257.5 .66 137.23

DIFFERENTIAL CORRECTIONS
 TDE -.3081 TRA -.5018 TC3 .4251 BAU .1423
 RDE -.3646 RRA .1016 RC3 .0621 FAU .02935
 FDE .2090 FRA .1547 FC3 -1.0252 BSP 2398
 BDE .4774 BRA .5119 BC3 .4296 FSP -226

MID-COURSE EXECUTION ACCURACY
 SGT 828.7 SGR 442.3 SG3 92.1
 RRT .2664 RRF -.2974 RTF -.7190
 SGB 939.3 R23 -.0406 R13 -.7262
 SG1 839.9 SG2 420.6 THA 10.84

ORBIT DETERMINATION ACCURACY
 ST 400.3 SR 421.3 SS 215.3
 CRT .8411 CRS .9418 CST .9654
 LSA 597.4 MSA 164.0 SSA 20.5
 EL1 557.7 EL2 163.6 ALF 46.74

LAUNCH DATE FEB 5 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 25.898 GAL -3.09 AZL 87.98 HCA 84.07 SMA 117.57 ECC .25983 INC 2.0223 V1 30.206
 RP 108.19 LAP 2.01 LOP 220.09 VP 36.394 GAP -14.36 AZP 89.79 TAL 188.87 TAP 272.94 RCA 87.02 APO 148.12 V2 35.027
 RC 46.364 GL 11.06 GP 11.05 ZAL 110.55 ZAP 11.11 ETS 278.64 ZAE 153.14 ETE 7.37 ZAC 127.43 ETC 155.03 CLP -1.14

DISTANCE 193.296

PLANETOCENTRIC CONIC
 C3 22.629 VHL 4.757 DLA 19.96 RAL 18.94 RAD 6567.9 VEL 12.000 PTH 2.14 VHP 9.443 DPA 22.79 RAP 32.93 ECC 1.3724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 48 24 2920.29 -28.28 90.62 249.92 88.41 1 37 4 2320.3 -28.20 81.95
 90.00 18 24 36 4211.92 .42 172.65 242.12 61.69 19 34 48 3611.9 -3.36 166.01
 100.00 2 22 30 2616.87 -29.89 68.32 249.95 89.90 3 6 7 2016.9 -29.59 59.53
 100.00 19 33 11 3990.58 1.84 155.59 241.33 60.16 20 39 42 3390.6 -2.15 149.07
 110.00 3 58 5 2317.78 -33.99 45.45 249.79 93.83 4 36 43 1717.8 -33.09 36.33
 110.00 20 14 5 3862.43 5.32 143.71 239.16 56.18 21 18 27 3262.4 .85 137.48

DIFFERENTIAL CORRECTIONS
 TDE -.3020 TRA -.4771 TC3 .5060 BAU .1554
 RDE -.3498 RRA .1000 RC3 .0890 FAU .03159
 FDE .2065 FRA .1392 FC3 -1.2087 BSP 2549
 BDE .4621 BRA .4875 BC3 .5138 FSP -257

MID-COURSE EXECUTION ACCURACY
 SGT 859.1 SGR 448.4 SG3 102.8
 RRT .3003 RRF -.3361 RTF -.7368
 SGB 969.1 R23 -.0469 R13 -.7451
 SG1 872.8 SG2 421.0 THA 11.66

ORBIT DETERMINATION ACCURACY
 ST 407.7 SR 423.0 SS 209.5
 CRT .8480 CRS .9466 CST .9630
 LSA 601.9 MSA 162.1 SSA 21.9
 EL1 564.8 EL2 161.9 ALF 46.25

LAUNCH DATE FEB 5 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 200.033

RL 147.50 LAL .00 LOL 136.02 VL 26.123 GAL -3.18 AZL 88.14 HCA 87.27 SMA 118.80 ECC .24751 INC 1.8576 VI 30.206
 RP 108.23 LAP 1.86 LOP 223.29 VP 36.542 GAP -13.41 AZP 89.91 TAL 189.79 TAP 277.06 RCA 89.40 APO 148.21 V2 35.013
 RC 47.558 GL 10.68 GP 11.77 ZAL 112.25 ZAP 12.19 ETS 288.09 ZAE 151.33 ETE 9.10 ZAC 128.08 ETC 153.95 CLP -3.20

PLANETOCENTRIC CONIC

C3 20.799 VHL 4.561 OLA 18.97 RAL 17.45 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 8.912 DPA 23.88 RAP 33.76 ECC 1.3423
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 25 2859.18 -28.31 86.15 246.45 90.65 1 41 4 2259.2 -27.92 77.51
 90.00 18 7 41 4232.34 1.08 173.78 239.10 61.70 19 18 14 3632.3 -2.71 167.16
 100.00 2 26 23 2559.39 -29.82 64.05 246.41 92.15 3 9 2 1959.4 -29.21 55.30
 100.00 19 17 24 4007.37 2.40 156.51 238.37 60.20 20 24 12 3407.4 -1.58 149.99
 110.00 3 59 50 2267.02 -33.69 41.52 246.08 96.14 4 37 37 1667.0 -32.48 32.50
 110.00 20 0 27 3872.50 5.71 144.24 236.32 56.24 21 4 59 3272.5 1.23 138.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2950 TRA -.4534 TC3 .5904 BAU .1677 SGT 888.9 SGR 455.7 SG3 114.8 ST 412.6 SR 423.6 SS 200.4
 ROE -.3357 RRA .0990 RC3 .1223 FAU .03410 RRT .3385 RRF -.3795 RTF -.7516 CRT .8537 CRS .9508 CST .9594
 FOE .2012 FRA .1212 FC3-1.4195 BSP 2668 SGB 998.9 R23 -.0546 R13 -.7613 LSA 603.1 MSA 159.9 SSA 23.5
 BOE .4469 BRA .4641 BC3 .6029 FSP -292 SG1 906.0 SG2 420.7 THA 12.60 EL1 569.4 EL2 159.9 ALF 45.88

LAUNCH DATE FEB 5 1969

FLIGHT TIME 80.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 206.767

RL 147.50 LAL .00 LOL 136.02 VL 26.327 GAL -3.29 AZL 88.31 HCA 90.47 SMA 119.95 ECC .23634 INC 1.6940 VI 30.206
 RP 108.27 LAP 1.69 LOP 226.49 VP 36.675 GAP -12.50 AZP 90.01 TAL 190.75 TAP 281.22 RCA 91.60 APO 148.30 V2 35.000
 RC 48.883 GL 10.20 GP 12.56 ZAL 114.00 ZAP 13.62 ETS 295.98 ZAE 149.69 ETE 10.82 ZAC 128.62 ETC 152.81 CLP -5.31

PLANETOCENTRIC CONIC

C3 19.249 VHL 4.387 OLA 17.86 RAL 15.98 RAD 6567.8 VEL 11.859 PTH 2.10 VHP 8.409 DPA 25.02 RAP 34.51 ECC 1.3168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 10 2796.97 -28.18 81.60 243.09 92.92 1 45 47 2197.0 -27.48 73.01
 90.00 17 50 11 4257.69 1.90 175.20 236.23 61.74 19 1 9 3657.7 -1.89 168.57
 100.00 2 31 1 2500.77 -29.59 59.71 242.99 94.43 3 12 42 1900.8 -28.67 51.03
 100.00 19 1 1 4029.11 3.14 157.71 235.55 60.26 20 8 10 3429.1 -.84 151.18
 110.00 4 2 17 2215.25 -33.25 37.54 242.50 98.45 4 39 12 1615.2 -31.72 28.65
 110.00 19 46 15 3887.40 6.27 145.02 233.61 56.33 20 51 3 3287.4 1.80 138.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2855 TRA -.4293 TC3 .6790 BAU .1797 SGT 917.0 SGR 464.6 SG3 128.3 ST 413.0 SR 422.8 SS 187.1
 ROE -.3222 RRA .0989 RC3 .1627 FAU .03692 RRT .3804 RRF -.4272 RTF -.7656 CRT .8579 CRS .9542 CST .9537
 FOE .1918 FRA .1001 FC3-1.6607 BSP 2798 SGB 1028.0 R23 -.0631 R13 -.7770 LSA 599.1 MSA 157.5 SSA 25.4
 BOE .4305 BRA .4405 BC3 .6982 FSP -332 SG1 938.3 SG2 419.9 THA 13.70 EL1 569.7 EL2 157.5 ALF 45.78

LAUNCH DATE FEB 5 1969

FLIGHT TIME 82.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 213.495

RL 147.50 LAL .00 LOL 136.02 VL 26.512 GAL -3.39 AZL 88.47 HCA 93.66 SMA 121.02 ECC .22625 INC 1.5303 VI 30.206
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.796 GAP -11.63 AZP 90.10 TAL 191.75 TAP 285.41 RCA 93.64 APO 148.40 V2 34.987
 RC 50.327 GL 9.61 GP 13.44 ZAL 115.78 ZAP 15.36 ETS 302.39 ZAE 148.24 ETE 12.59 ZAC 129.01 ETC 151.61 CLP -7.50

PLANETOCENTRIC CONIC

C3 17.938 VHL 4.235 OLA 16.64 RAL 14.55 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 7.934 DPA 26.21 RAP 35.15 ECC 1.2952
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 5 37 2734.07 -27.88 77.03 239.87 95.20 1 51 11 2134.1 -26.86 68.51
 90.00 17 32 20 4287.45 2.86 176.86 233.55 61.82 18 43 48 3687.5 -.93 170.23
 100.00 2 36 22 2441.38 -29.20 55.34 239.71 96.69 3 17 4 1841.4 -27.97 46.75
 100.00 18 44 16 4055.37 4.03 159.15 232.90 60.36 19 51 51 3455.4 .05 152.62
 110.00 4 5 26 2162.74 -32.65 33.56 239.09 100.73 4 41 28 1562.7 -30.83 24.82
 110.00 19 31 42 3906.78 7.00 146.05 231.06 56.46 20 36 49 3306.8 2.54 139.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2724 TRA -.4044 TC3 .7725 BAU .1921 SGT 943.4 SGR 475.9 SG3 143.5 ST 406.9 SR 420.1 SS 168.9
 ROE -.3090 RRA .0995 RC3 .2113 FAU .04011 RRT .4254 RRF -.4789 RTF -.7802 CRT .8595 CRS .9556 CST .9442
 FOE .1768 FRA .0758 FC3-1.9357 BSP 2964 SGB 1056.7 R23 -.0720 R13 -.7937 LSA 588.1 MSA 154.9 SSA 27.6
 BOE .4119 BRA .4165 BC3 .8009 FSP -379 SG1 970.1 SG2 418.9 THA 14.96 EL1 564.0 EL2 154.9 ALF 46.07

LAUNCH DATE FEB 5 1969

FLIGHT TIME 84.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 220.214

RL 147.50 LAL .00 LOL 136.02 VL 26.680 GAL -3.49 AZL 88.63 HCA 96.86 SMA 122.01 ECC .21717 INC 1.3656 VI 30.206
 RP 108.36 LAP 1.36 LOP 232.88 VP 36.904 GAP -10.79 AZP 90.16 TAL 192.77 TAP 289.63 RCA 95.52 APO 148.51 V2 34.974
 RC 51.881 GL 8.90 GP 14.43 ZAL 117.55 ZAP 17.37 ETS 307.56 ZAE 146.97 ETE 14.44 ZAC 129.26 ETC 150.36 CLP -9.77

PLANETOCENTRIC CONIC

C3 16.830 VHL 4.102 OLA 15.31 RAL 13.19 RAD 6567.7 VEL 11.756 PTH 2.08 VHP 7.485 DPA 27.46 RAP 35.66 ECC 1.2770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 12 43 2670.87 -27.40 72.46 236.82 97.44 1 57 13 2070.9 -26.09 64.04
 90.00 17 14 22 4321.15 3.94 178.75 231.07 61.94 18 26 24 3721.1 .16 172.11
 100.00 2 42 25 2381.58 -28.65 50.98 236.61 98.92 3 22 6 1781.6 -27.12 42.51
 100.00 18 27 21 4085.67 5.04 160.83 230.46 60.50 19 35 27 3485.7 1.08 154.29
 110.00 4 9 17 2109.78 -31.91 29.61 235.88 102.96 4 44 27 1509.8 -29.80 21.04
 110.00 19 16 59 3930.23 7.88 147.29 228.72 56.63 20 22 29 3330.2 3.43 141.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2590 TRA -.3821 TC3 .8615 BAU .2031 SGT 967.8 SGR 490.6 SG3 160.3 ST 398.6 SR 415.6 SS 146.8
 ROE -.2959 RRA .1007 RC3 .2688 FAU .04363 RRT .4734 RRF -.5341 RTF -.7909 CRT .8595 CRS .9537 CST .9285
 FOE .1569 FRA .0495 FC3-2.2442 BSP 3080 SGB 1085.0 R23 -.0834 R13 -.8071 LSA 573.6 MSA 152.6 SSA 30.2
 BOE .3933 BRA .3951 BC3 .9024 FSP -430 SG1 1001.5 SG2 417.6 THA 16.43 EL1 555.3 EL2 152.5 ALF 46.39

LAUNCH DATE FEB 5 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 226.921
 RL 147.50 LAL .00 LOL 136.02 VL 26.831 GAL -3.58 AZL 88.80 HCA 100.05 SMA 122.93 ECC .20304 INC 1.198H V1 30.206
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.002 GAP -10.00 AZP 90.21 TAL 193.80 TAP 293.85 RCA 97.23 APO 148.63 V2 34.961
 RC 53.536 GL 8.08 GP 15.52 ZAL 119.30 ZAP 19.61 ETS 311.72 ZAE 145.89 ETE 16.43 ZAC 129.33 ETC 149.08 CLP -12.13

PLANETOCENTRIC CONIC

C3 15.897 VHL 3.987 CLA 13.89 RAL 11.92 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 7.063 DPA 28.78 RAP 36.04 ECC 1.2616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 20 27 2607.62 -26.76 67.94 233.98 99.62 2 3 55 2007.6 -25.16 59.64
 90.00 16 56 29 4358.34 5.13 180.83 228.83 62.11 18 9 7 3758.3 1.36 174.18
 100.00 2 49 8 2321.62 -27.94 46.67 233.74 101.09 3 27 50 1721.6 -26.12 38.34
 100.00 18 10 29 4119.57 6.18 162.71 228.25 60.69 19 19 8 3519.6 2.23 156.15
 110.00 4 13 51 2056.57 -31.03 25.71 232.91 105.12 4 48 7 1456.6 -28.65 17.32
 110.00 19 2 16 3957.39 8.89 148.74 226.59 56.86 20 8 13 3357.4 4.47 142.45

DIFFERENTIAL CORRECTIONS

TDE -.2441 TRA -.3610 TC3 .9468 BAU .2135
 RDE -.2826 RRA .1025 RC3 .3363 FAU .04753
 FDE .1307 FRA .0208 FC3-2.5882 BSP 3185
 BDE .3734 BRA .3753 BC3 1.0047 FSP -487

MID-COURSE EXECUTION ACCURACY

SGT 989.3 SGR 509.8 SG3 179.1
 RRT .5231 RRF -.5916 RTF -.8001
 SGB 1112.9 R23 -.0964 R13 -.8198
 SG1 1032.0 SG2 416.5 THA 18.14

ORBIT DETERMINATION ACCURACY

ST 386.3 SR 408.7 SS 120.8
 CRT .8570 CRS .9435 CST .8991
 LSA 554.3 MSA 150.3 SSA 33.1
 EL1 542.0 EL2 150.1 ALF 46.88

LAUNCH DATE FEB 5 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 233.613
 RL 147.50 LAL .00 LOL 136.02 VL 26.967 GAL -3.67 AZL 88.97 HCA 103.23 SMA 123.77 ECC .20178 INC 1.0288 V1 30.206
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.088 GAP -9.24 AZP 90.24 TAL 194.83 TAP 298.06 RCA 98.79 APO 148.74 V2 34.948
 RC 55.282 GL 7.14 GP 16.74 ZAL 121.00 ZAP 22.08 ETS 315.11 ZAE 144.97 ETE 18.59 ZAC 129.21 ETC 147.77 CLP -14.60

PLANETOCENTRIC CONIC

C3 15.112 VHL 3.887 CLA 12.39 RAL 10.75 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 6.668 DPA 30.17 RAP 36.24 ECC 1.2487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 28 51 2544.49 -25.97 63.49 231.37 101.71 2 11 16 1944.5 -24.09 55.33
 90.00 16 38 48 4398.64 6.41 183.11 226.83 62.36 17 52 6 3798.6 2.66 176.43
 100.00 2 56 33 2261.66 -27.08 42.42 231.09 103.17 3 34 15 1661.7 -25.00 34.24
 100.00 17 53 47 4156.71 7.41 164.77 226.29 60.96 19 3 4 3556.7 3.48 158.19
 110.00 4 19 8 2003.26 -30.02 21.89 230.19 107.17 4 52 31 1403.3 -27.38 13.69
 110.00 18 47 42 3987.88 10.02 150.38 224.70 57.15 19 54 9 3387.9 5.62 144.05

DIFFERENTIAL CORRECTIONS

TDE -.2269 TRA -.3412 TC3 1.0259 BAU .2236
 RDE -.2685 RRA .1051 RC3 .4151 FAU .05185
 FDE .0957 FRA -.0105 FC3-2.9701 BSP 3294
 BDE .3516 BRA .3570 BC3 1.1067 FSP -552

MID-COURSE EXECUTION ACCURACY

SGT 1006.5 SGR 534.7 SG3 199.9
 RRT .5724 RRF -.6495 RTF -.8077
 SGB 1139.8 R23 -.1110 R13 -.8320
 SG1 1061.2 SG2 415.9 THA 20.14

ORBIT DETERMINATION ACCURACY

ST 369.2 SR 398.7 SS 90.6
 CRT .8509 CRS .9048 CST .8287
 LSA 529.3 MSA 148.3 SSA 36.7
 EL1 522.9 EL2 147.9 ALF 47.59

LAUNCH DATE FEB 5 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 240.287
 RL 147.50 LAL .00 LOL 136.02 VL 27.089 GAL -3.76 AZL 89.15 HCA 106.42 SMA 124.53 ECC .19533 INC .8543 V1 30.206
 RP 108.47 LAP .82 LOP 242.44 VP 37.165 GAP -8.51 AZP 90.24 TAL 195.84 TAP 302.26 RCA 100.21 APO 148.86 V2 34.936
 RC 57.109 GL 6.09 GP 18.10 ZAL 122.63 ZAP 24.76 ETS 317.90 ZAE 144.21 ETE 20.97 ZAC 128.88 ETC 146.46 CLP -17.19

PLANETOCENTRIC CONIC

C3 14.455 VHL 3.802 CLA 10.80 RAL 9.72 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 6.299 DPA 31.65 RAP 36.26 ECC 1.2379
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 37 56 2481.56 -25.02 59.13 229.01 103.70 2 19 17 1881.6 -22.89 51.10
 90.00 16 21 27 4441.75 7.76 185.55 225.11 62.68 17 35 29 3841.8 4.04 178.85
 100.00 3 4 40 2201.80 -26.08 38.25 228.71 105.15 3 41 22 1601.8 -23.75 30.23
 100.00 17 37 23 4196.75 8.73 167.02 224.59 61.30 18 47 20 3596.7 4.83 160.40
 110.00 4 25 10 1949.93 -28.89 18.15 227.74 109.12 4 57 40 1349.9 -26.01 10.15
 110.00 18 33 23 4021.38 11.25 152.19 223.07 57.51 19 40 25 3421.4 6.89 145.82

DIFFERENTIAL CORRECTIONS

TDE -.2084 TRA -.3232 TC3 1.0950 BAU .2331
 RDE -.2534 RRA .1084 RC3 .5062 FAU .05658
 FDE .0517 FRA -.0435 FC3-3.3885 BSP 3389
 BDE .3281 BRA .3409 BC3 1.2064 FSP -622

MID-COURSE EXECUTION ACCURACY

SGT 1018.7 SGR 567.1 SG3 222.8
 RRT .6196 RRF -.7061 RTF -.8134
 SGB 1166.0 R23 -.1272 R13 -.8437
 SG1 1089.1 SG2 416.4 THA 22.49

ORBIT DETERMINATION ACCURACY

ST 348.4 SR 385.3 SS 60.7
 CRT .8403 CRS .7364 CST .6027
 LSA 500.4 MSA 146.6 SSA 40.7
 EL1 498.5 EL2 146.0 ALF 48.42

LAUNCH DATE FEB 5 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 246.942
 RL 147.50 LAL .00 LOL 136.02 VL 27.198 GAL -3.83 AZL 89.33 HCA 109.60 SMA 125.23 ECC .18962 INC .6743 V1 30.206
 RP 108.51 LAP .64 LOP 245.62 VP 37.234 GAP -7.81 AZP 90.23 TAL 196.82 TAP 306.42 RCA 101.48 APO 148.98 V2 34.923
 RC 59.010 GL 4.91 GP 19.62 ZAL 124.17 ZAP 27.67 ETS 320.24 ZAE 143.58 ETE 23.62 ZAC 128.31 ETC 145.18 CLP -19.92

PLANETOCENTRIC CONIC

C3 13.907 VHL 3.729 CLA 9.15 RAL 8.82 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 5.957 DPA 33.21 RAP 36.04 ECC 1.2289
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 43 2418.78 -23.94 54.85 226.92 105.59 2 28 2 1818.8 -21.57 46.97
 90.00 16 4 30 4487.47 9.18 188.16 223.66 63.09 17 19 17 3887.5 5.50 181.42
 100.00 3 13 32 2142.00 -24.95 34.16 226.60 107.01 3 49 14 1542.0 -22.39 26.31
 100.00 17 21 22 4239.48 10.11 169.43 223.17 61.72 18 32 1 3639.5 6.26 162.77
 110.00 4 31 58 1896.58 -27.64 14.50 225.57 110.96 5 3 34 1296.6 -24.54 6.70
 110.00 18 19 26 4057.67 12.57 154.18 221.71 57.95 19 27 3 3457.7 8.25 147.75

DIFFERENTIAL CORRECTIONS

TDE -.1864 TRA -.3049 TC3 1.1581 BAU .2436
 RDE -.2361 RRA .1127 RC3 .6123 FAU .06184
 FDE -.0058 FRA -.0803 FC3-3.8494 BSP 3536
 BDE .3008 BRA .3251 BC3 1.3100 FSP -706

MID-COURSE EXECUTION ACCURACY

SGT 1026.3 SGR 609.1 SG3 248.3
 RRT .6642 RRF -.7598 RTF -.8198
 SGB 1193.4 R23 -.1409 R13 -.8574
 SG1 1117.8 SG2 418.1 THA 25.29

ORBIT DETERMINATION ACCURACY

ST 320.9 SR 366.8 SS 48.6
 CRT .8221 CRS -.0022 CST -.1867
 LSA 465.7 MSA 144.8 SSA 45.6
 EL1 465.7 EL2 143.9 ALF 49.63

LAUNCH DATE FEB 5 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 253.576

RL 147.50 LAL .00 LOL 136.02 VL 27.295 GAL -3.91 AZL 89.51 HCA 112.78 SMA 125.86 ECC .11459 INC .4870 V1 30.206
 RP 108.55 LAP .45 LOP 248.80 VP 37.293 GAP -7.14 AZP 90.19 TAL 197.75 TAP 310.53 RCA 102.63 APO 149.09 V2 34.911
 RC 60.976 GL 3.62 GP 21.31 ZAL 125.59 ZAP 30.81 ETS 322.26 ZAE 143.05 ETE 26.60 ZAC 127.49 ETC 143.95 CLP -22.79

PLANETOCENTRIC CONIC

C3 13.452 VHL 3.668 DLA 7.42 RAL 8.08 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 5.642 CPA 34.88 RAP 35.57 ECC 1.2214
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 58 18 2356.04 -22.73 50.65 225.11 107.36 2 37 34 1756.0 -20.14 42.93
 90.00 15 47 59 4535.68 10.65 190.94 222.50 63.61 17 3 35 3935.7 7.02 184.14
 100.00 3 23 12 2082.19 -23.70 30.16 224.77 108.77 3 57 55 1482.2 -20.92 22.47
 100.00 17 5 46 4284.76 11.56 172.01 222.03 62.24 18 17 11 3684.8 7.76 165.29
 110.00 4 39 35 1843.15 -26.29 10.93 223.69 112.68 5 10 19 1243.1 -22.99 3.33
 110.00 18 5 52 4096.56 13.97 156.33 220.62 58.48 19 14 9 3496.6 9.70 149.83

DIFFERENTIAL CORRECTIONS

TDE -.1657 TRA -.2914 TC3 1.1987 BAU .2527
 RDE -.2168 RRA .1171 RC3 .7328 FAU .06739
 FDE .0743 FRA -.1146 FC3-4.3369 BSP 3629
 BDE .2729 BRA .3141 BC3 1.4050 FSP -792

MID-COURSE EXECUTION ACCURACY

SGT 1025.2 SGR 661.6 SG3 275.5
 RRT .7013 RRF -.8079 RTF -.8212
 SGB 1220.1 R23 -.1570 R13 -.8693
 SG1 1144.7 SG2 422.4 THA 28.60

ORBIT DETERMINATION ACCURACY

ST 294.4 SR 343.5 SS 77.9
 CRT .7957 CRS -.6338 CST -.7441
 LSA 433.0 MSA 143.8 SSA 50.9
 EL1 429.3 EL2 142.7 ALF 50.50

LAUNCH DATE FEB 5 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 260.187

RL 147.50 LAL .00 LOL 136.02 VL 27.381 GAL -3.97 AZL 89.71 HCA 115.96 SMA 126.42 ECC .18017 INC .2909 V1 30.206
 RP 108.58 LAP .26 LOP 251.98 VP 37.345 GAP -6.50 AZP 90.13 TAL 198.62 TAP 314.58 RCA 103.64 APO 149.20 V2 34.900
 RC 63.000 GL 2.20 GP 23.18 ZAL 126.88 ZAP 34.17 ETS 324.05 ZAE 142.58 ETE 29.96 ZAC 126.38 ETC 142.79 CLP -25.84

PLANETOCENTRIC CONIC

C3 13.078 VHL 3.616 DLA 5.63 RAL 7.50 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 5.356 CPA 36.65 RAP 34.79 ECC 1.2152
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 9 45 2293.09 -21.39 46.52 223.59 109.01 2 47 58 1693.1 -18.60 38.95
 90.00 15 31 54 4586.41 12.17 193.89 221.63 64.23 16 48 21 3986.4 8.61 187.02
 100.00 3 33 45 2022.14 -22.33 26.23 223.23 110.40 4 7 28 1422.1 -19.35 18.70
 100.00 16 50 35 4332.59 13.06 174.77 221.18 62.87 18 2 48 3732.6 9.32 167.98
 110.00 4 48 6 1789.47 -24.84 7.44 222.11 114.28 5 17 56 1189.5 -21.35 .03
 110.00 17 52 44 4138.02 15.43 158.65 219.82 59.11 19 1 42 3538.0 11.22 152.07

DIFFERENTIAL CORRECTIONS

TDE -.1445 TRA -.2805 TC3 1.2203 BAU .2620
 RDE -.1941 RRA .1219 RC3 .8699 FAU .07324
 FDE -.1579 FRA -.1477 FC3-4.8483 BSP 3719
 BDE .2420 BRA .3059 BC3 1.4986 FSP -885

MID-COURSE EXECUTION ACCURACY

SGT 1015.3 SGR 726.7 SG3 304.4
 RRT .7305 RRF -.8494 RTF -.8194
 SGB 1248.6 R23 -.1708 R13 -.8817
 SG1 1172.3 SG2 429.8 THA 32.50

ORBIT DETERMINATION ACCURACY

ST 266.6 SR 313.6 SS 129.8
 CRT .7549 CRS -.8057 CST -.8554
 LSA 403.2 MSA 143.0 SSA 56.4
 EL1 386.3 EL2 141.9 ALF 51.09

LAUNCH DATE FEB 5 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 266.775

RL 147.50 LAL .00 LOL 136.02 VL 27.457 GAL -4.02 AZL 89.92 HCA 119.14 SMA 126.92 ECC .17631 INC .0831 V1 30.206
 RP 108.62 LAP .07 LOP 255.16 VP 37.390 GAP -5.88 AZP 90.04 TAL 199.42 TAP 318.56 RCA 104.54 APO 149.30 V2 34.889
 RC 65.076 GL .65 GP 25.25 ZAL 128.02 ZAP 37.77 ETS 325.71 ZAE 142.13 ETE 33.73 ZAC 124.99 ETC 141.76 CLP -29.08

PLANETOCENTRIC CONIC

C3 12.776 VHL 3.574 DLA 3.77 RAL 7.09 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 5.099 CPA 38.52 RAP 33.66 ECC 1.2103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 12 2229.61 -19.93 42.44 222.36 110.54 2 59 21 1629.6 -16.96 35.02
 90.00 15 16 12 4639.83 13.73 197.04 221.07 64.99 16 33 32 4039.8 10.25 190.09
 100.00 3 45 18 1961.55 -20.84 22.34 221.99 111.93 4 18 0 1361.6 -17.68 14.97
 100.00 16 35 47 4383.12 14.61 177.72 220.63 63.63 17 48 50 3783.1 10.95 170.84
 110.00 4 57 35 1735.31 -23.28 4.01 220.83 115.77 5 26 31 1135.3 -19.62 356.78
 110.00 17 39 59 4182.12 16.96 161.16 219.32 59.86 18 49 41 3582.1 12.82 154.49

DIFFERENTIAL CORRECTIONS

TDE -.1238 TRA -.2727 TC3 1.2186 BAU .2719
 RDE -.1672 RRA .1269 RC3 1.0246 FAU .07927
 FDE -.2577 FRA -.1774 FC3-5.3718 BSP 3820
 BDE .2080 BRA .3007 BC3 1.5920 FSP -983

MID-COURSE EXECUTION ACCURACY

SGT 995.0 SGR 806.1 SG3 334.6
 RRT .7504 RRF -.8840 RTF -.8144
 SGB 1280.6 R23 -.1801 R13 -.8952
 SG1 1202.3 SG2 441.0 THA 37.11

ORBIT DETERMINATION ACCURACY

ST 239.4 SR 275.8 SS 192.6
 CRT .6924 CRS -.8537 CST -.8614
 LSA 382.8 MSA 142.2 SSA 61.0
 EL1 336.7 EL2 141.5 ALF 50.80

LAUNCH DATE FEB 5 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 273.338

RL 147.50 LAL .00 LOL 136.02 VL 27.522 GAL -4.07 AZL 90.14 HCA 122.31 SMA 127.36 ECC .17294 INC .1353 V1 30.206
 RP 108.65 LAP -.11 LOP 258.33 VP 37.428 GAP -5.29 AZP 89.93 TAL 200.15 TAP 322.46 RCA 105.34 APO 149.39 V2 34.878
 RC 67.198 GL -1.05 GP 27.53 ZAL 128.99 ZAP 41.61 ETS 327.31 ZAE 141.62 ETE 37.97 ZAC 123.28 ETC 140.89 CLP -32.53

PLANETOCENTRIC CONIC

C3 12.538 VHL 3.541 DLA 1.82 RAL 6.86 RAD 6567.5 VEL 11.573 PTH 2.02 VHP 4.873 CPA 40.49 RAP 32.14 ECC 1.2063
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 35 47 2165.11 -18.34 38.37 221.44 111.96 3 11 52 1565.1 -15.20 31.10
 90.00 15 0 48 4696.30 15.33 200.41 220.82 65.90 16 19 4 4096.3 11.94 193.37
 100.00 3 57 58 1900.01 -19.23 18.48 221.05 113.34 4 29 38 1300.0 -15.91 11.27
 100.00 16 21 18 4436.64 16.21 180.90 220.40 64.93 17 35 15 3836.6 12.64 173.92
 110.00 5 8 10 1680.32 -21.61 .61 219.85 117.16 5 36 10 1080.3 -17.79 353.56
 110.00 17 27 36 4229.09 18.54 163.88 219.13 60.75 18 38 5 3629.1 14.50 157.09

DIFFERENTIAL CORRECTIONS

TDE -.1023 TRA -.2663 TC3 1.1963 BAU .2840
 RDE -.1342 RRA .1321 RC3 1.1996 FAU .08545
 FDE -.3786 FRA -.2040 FC3-5.8999 BSP 3977
 BDE .1687 BRA .2972 BC3 1.6941 FSP -1090

MID-COURSE EXECUTION ACCURACY

SGT 964.9 SGR 902.5 SG3 366.0
 RRT .7619 RRF -.9122 RTF -.8065
 SGB 1321.2 R23 -.1790 R13 -.9108
 SG1 1240.5 SG2 454.7 THA 42.49

ORBIT DETERMINATION ACCURACY

ST 211.5 SR 227.8 SS 266.6
 CRT .5867 CRS -.8559 CST -.8284
 LSA 379.3 MSA 140.8 SSA 63.0
 EL1 277.2 EL2 140.8 ALF 48.59

LAUNCH DATE FEB 5 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.50 LAL .00 LOL 136.02 VL 27.580 GAL -4.10 AZL 90.37 HCA 125.48 SMA 127.75 ECC .17003 INC .3710 V1 30.206
 RP 108.68 LAP -.30 LOP 261.50 VP 37.461 GAP -4.73 AZP 89.78 TAL 200.79 TAP 326.27 RCA 106.03 APO 149.47 V2 34.867
 RC 69.360 GL -2.91 GP 30.03 ZAL 129.78 ZAP 45.68 ETS 328.94 ZAE 140.98 ETE 42.66 ZAC 121.27 ETC 140.21 CLP -36.20

PLANETOCENTRIC CONIC

C3 12.361 VHL 3.516 DLA -.21 RAL 6.82 RAD 6567.5 VEL 11.565 PTH 2.02 VHP 4.679 DPA 42.55 RAP 30.17 ECC 1.2034
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 43 2099.04 -16.61 34.30 220.83 113.27 3 25 42 1499.0 -13.32 27.16
 90.00 14 45 35 4756.32 16.96 204.06 220.90 66.98 16 4 51 4156.3 13.70 196.90
 100.00 4 11 58 1836.98 -17.48 14.62 220.42 114.64 4 42 34 1237.0 -14.02 7.54
 100.00 16 7 1 4493.62 17.84 184.34 220.50 65.61 17 21 55 3893.6 14.40 177.24
 110.00 5 19 59 1624.07 -19.82 357.22 219.19 118.44 5 47 3 1024.1 -15.87 350.33
 110.00 17 15 30 4279.29 20.18 166.85 219.27 61.81 18 26 49 3679.3 16.26 159.92

DIFFERENTIAL CORRECTIONS

TDE -.0853 TRA -.2654 TC3 1.1374 BAU .2968
 RDE -.0949 RRA .1355 RC3 1.3901 FAU .09118
 FDE -.5137 FRA -.2176 FC3-6.3858 BSP 4110
 BDE .1276 BRA .2980 BC3 1.7962 FSP -1189

DISTANCE 279.876

SGT 919.9 SGR 1014.0 SG3 395.8
 RRT .7588 RRF -.9338 RTF -.7882
 SGB 1369.1 R23 -.1713 R13 -.9261
 SG1 1284.8 SG2 472.8 THA 48.67

ORBIT DETERMINATION ACCURACY

ST 191.6 SR 170.8 SS 345.5
 CRT .4155 CRS -.8118 CST -.7748
 LSA 402.6 MSA 139.6 SSA 60.6
 EL1 216.9 EL2 137.3 ALF 37.26

LAUNCH DATE FEB 5 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

RL 147.50 LAL .00 LOL 136.02 VL 27.628 GAL -4.13 AZL 90.63 HCA 128.65 SMA 128.08 ECC .16752 INC .6260 V1 30.206
 RP 108.72 LAP -.49 LOP 264.67 VP 37.488 GAP -4.19 AZP 89.61 TAL 201.34 TAP 329.99 RCA 106.62 APO 149.54 V2 34.858
 RC 71.560 GL -4.94 GP 32.74 ZAL 130.36 ZAP 49.97 ETS 330.67 ZAE 140.14 ETE 47.79 ZAC 118.95 ETC 139.77 CLP -40.12

PLANETOCENTRIC CONIC

C3 12.244 VHL 3.499 DLA -2.36 RAL 6.99 RAD 6567.5 VEL 11.560 PTH 2.02 VHP 4.521 DPA 44.68 RAP 27.69 ECC 1.2015
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 15 2030.65 -14.72 30.16 220.55 114.46 3 41 6 1430.6 -11.30 23.16
 90.00 14 30 21 4820.68 18.63 208.05 221.34 68.28 15 50 42 4220.7 15.52 200.75
 100.00 4 27 30 1771.79 -15.59 10.70 220.13 115.83 4 57 1 1171.8 -11.99 3.76
 100.00 15 52 48 4554.77 19.52 188.11 220.95 66.90 17 8 42 3954.8 16.22 180.86
 110.00 5 33 13 1566.04 -17.90 353.82 218.86 119.62 5 59 19 966.0 -13.83 347.08
 110.00 17 3 33 4333.28 21.88 170.11 219.77 63.06 18 15 47 3733.3 18.10 163.03

DIFFERENTIAL CORRECTIONS

TDE -.0719 TRA -.2678 TC3 1.0452 BAU .3123
 RDE -.0471 RRA .1371 RC3 1.5960 FAU .09627
 FDE -.6662 FRA -.2187 FC3-6.8068 BSP 4284
 BDE .0860 BRA .3008 BC3 1.9078 FSP -1281

MID-COURSE EXECUTION ACCURACY

SGT 861.0 SGR 1141.9 SG3 423.4
 RRT .7399 RRF -.9502 RTF -.7581
 SGB 1430.2 R23 -.1525 R13 -.9415
 SG1 1342.6 SG2 492.6 THA 55.57

ORBIT DETERMINATION ACCURACY

ST 177.9 SR 107.8 SS 431.8
 CRT .0496 CRS -.6056 CST -.7087
 LSA 455.5 MSA 139.1 SSA 54.1
 EL1 178.1 EL2 107.6 ALF 2.71

LAUNCH DATE FEB 5 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

RL 147.50 LAL .00 LOL 136.02 VL 27.670 GAL -4.15 AZL 90.90 HCA 131.82 SMA 128.36 ECC .16536 INC .9044 V1 30.206
 RP 108.74 LAP -.67 LOP 267.84 VP 37.509 GAP -3.66 AZP 89.40 TAL 201.79 TAP 333.61 RCA 107.14 APO 149.59 V2 34.848
 RC 73.792 GL -7.17 GP 35.66 ZAL 130.71 ZAP 54.44 ETS 332.57 ZAE 139.02 ETE 53.30 ZAC 116.33 ETC 139.59 CLP -44.29

PLANETOCENTRIC CONIC

C3 12.190 VHL 3.491 DLA -4.62 RAL 7.36 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 4.401 DPA 46.86 RAP 24.66 ECC 1.2006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 25 43 1959.01 -12.66 25.91 220.63 115.54 3 58 22 1359.0 -9.12 19.02
 90.00 14 14 53 4890.44 20.33 212.46 222.17 69.85 15 36 24 4290.4 17.40 205.01
 100.00 4 44 53 1703.61 -13.53 6.69 220.19 116.91 5 13 17 1103.6 -9.81 359.87
 100.00 15 38 24 4621.07 21.23 192.28 221.80 68.45 16 55 25 4021.1 18.12 184.87
 110.00 5 48 9 1505.55 -15.83 350.35 218.88 120.70 6 13 15 905.6 -11.64 343.75
 110.00 16 51 38 4391.89 23.65 173.75 220.67 64.56 18 4 50 3791.9 20.02 166.48

DIFFERENTIAL CORRECTIONS

TDE -.0626 TRA -.2717 TC3 .9218 BAU .3319
 RDE .0121 RRA .1364 RC3 1.8160 FAU .10051
 FDE -.8376 FRA -.2080 FC3-7.1377 BSP 4551
 BDE .0638 BRA .3040 BC3 2.0365 FSP -1370

MID-COURSE EXECUTION ACCURACY

SGT 790.5 SGR 1288.0 SG3 447.7
 RRT .7010 RRF -.9627 RTF -.7113
 SGB 1511.2 R23 -.1232 R13 -.9561
 SG1 1422.4 SG2 510.5 THA 62.96

ORBIT DETERMINATION ACCURACY

ST 170.1 SR 79.9 SS 527.2
 CRT -.7613 CRS .3602 CST -.6452
 LSA 540.1 MSA 139.5 SSA 45.4
 EL1 181.6 EL2 48.5 ALF 158.74

LAUNCH DATE FEB 5 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 147.50 LAL .00 LOL 136.02 VL 27.704 GAL -4.16 AZL 91.21 HCA 134.98 SMA 128.60 ECC .16352 INC 1.2116 V1 30.206
 RP 108.77 LAP -.86 LOP 271.01 VP 37.527 GAP -3.16 AZP 89.14 TAL 202.15 TAP 337.13 RCA 107.57 APO 149.63 V2 34.839
 RC 76.053 GL -9.63 GP 38.77 ZAL 130.80 ZAP 59.05 ETS 334.72 ZAE 137.56 ETE 59.09 ZAC 113.46 ETC 139.72 CLP -48.73

PLANETOCENTRIC CONIC

C3 12.207 VHL 3.494 DLA -7.04 RAL 7.97 RAD 6567.5 VEL 11.558 PTH 2.02 VHP 4.322 DPA 49.03 RAP 21.03 ECC 1.2009
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 35 1882.96 -10.39 21.48 221.11 116.49 4 17 58 1283.0 -6.75 14.69
 90.00 13 58 52 4967.07 22.04 217.43 223.44 71.76 15 21 39 4367.1 19.35 209.79
 100.00 5 4 33 1631.41 -11.27 2.52 220.66 117.87 5 31 45 1031.4 -7.45 355.82
 100.00 15 23 34 4693.85 22.98 196.98 223.09 70.34 16 41 48 4093.9 20.09 189.38
 110.00 6 5 6 1441.84 -13.59 346.78 219.30 121.67 6 29 8 841.8 -9.30 340.30
 110.00 16 39 31 4456.19 25.46 177.86 222.01 66.38 17 53 47 3856.2 22.05 170.37

DIFFERENTIAL CORRECTIONS

TDE -.0630 TRA -.2797 TC3 .7559 BAU .3546
 RDE .0829 RRA .1301 RC3 2.0372 FAU .10311
 FDE -1.0154 FRA -.1749 FC3-7.3130 BSP 4848
 BDE .1042 BRA .3084 BC3 2.1729 FSP -1433

MID-COURSE EXECUTION ACCURACY

SGT 709.4 SGR 1446.1 SG3 465.0
 RRT .6225 RRF -.9717 RTF -.6269
 SGB 1610.7 R23 -.0898 R13 -.9680
 SG1 1521.9 SG2 527.5 THA 70.60

ORBIT DETERMINATION ACCURACY

ST 173.6 SR 156.5 SS 625.2
 CRT -.8215 CRS .3108 CST -.6248
 LSA 651.3 MSA 141.1 SSA 37.1
 EL1 223.2 EL2 69.4 ALF 138.61

LAUNCH DATE FEB 5 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 305.764

RL 147.50 LAL .00 LOL 136.02 VL 27.732 GAL -4.15 AZL 91.55 HCA 138.14 SMA 128.79 ECC .16197 INC 1.5546 V1 30.206
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.539 GAP -2.68 AZP 88.84 TAL 202.40 TAP 340.55 RCA 107.93 APO 149.65 V2 34.831
 RC 78.340 GL -12.35 GP 42.03 ZAL 130.61 ZAP 63.73 ETS 337.19 ZAE 135.69 ETE 65.03 ZAC 110.36 ETC 140.18 CLP -53.43

PLANETOCENTRIC CONIC

C3 12.309 VHL 3.508 DLA -9.64 RAL 8.82 RAD 6567.5 VEL 11.563 PTH 2.02 VHP 4.287 DPA 51.17 RAP 16.78 ECC 1.2026
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 27 1800.95 -7.86 16.78 222.06 117.29 4 40 28 1201.0 -4.14 10.07
 90.00 13 41 48 5052.61 23.75 223.11 227.56 77.06 14 48 53 4452.6 21.35 215.27
 100.00 5 27 3 1553.83 -8.76 358.13 221.57 118.69 5 52 57 953.8 -4.87 351.51
 100.00 15 7 54 4774.96 24.73 202.37 224.88 72.65 16 27 29 4175.0 22.12 194.54
 110.00 6 24 30 1373.92 -11.13 343.05 220.15 122.53 6 47 24 773.9 -6.76 336.69
 110.00 16 26 56 4527.64 27.33 182.58 223.87 68.62 17 42 23 3927.6 24.17 174.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0746 TRA -.2891 TC3 .5522 BAU .3810 SGT 628.0 SGR 1613.1 SG3 473.7 ST 188.8 SR 284.4 SS 725.6
 RDE .1680 RRA .1165 RC3 2.2486 FAU .10373 RRT .4792 RRF -.9783 RTF -.4793 CRT -.7677 CRS .9806 CST -.6618
 FDE-1.1953 FRA -.1204 FC3-7.2959 BSP 5210 SGB 1731.1 R23 -.0555 R13 -.9768 LSA 788.4 MSA 143.5 SSA 29.7
 BDE .1839 BRA .3118 BC3 2.3154 FSP -1468 SG1 1644.4 SG2 540.7 THA 78.13 EL1 324.5 EL2 106.0 ALF 120.62

LAUNCH DATE FEB 5 1969

FLIGHT TIME 112.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 312.170

RL 147.50 LAL .00 LOL 136.02 VL 27.754 GAL -4.14 AZL 91.94 HCA 141.30 SMA 128.94 ECC .16066 INC 1.9424 V1 30.206
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.549 GAP -2.22 AZP 88.48 TAL 202.56 TAP 343.86 RCA 108.23 APO 149.66 V2 34.824
 RC 80.651 GL -15.38 GP 45.43 ZAL 130.10 ZAP 68.41 ETS 340.02 ZAE 133.40 ETE 70.99 ZAC 107.10 ETC 140.97 CLP -58.38

PLANETOCENTRIC CONIC

C3 12.521 VHL 3.538 DLA -12.46 RAL 9.95 RAD 6567.5 VEL 11.572 PTH 2.02 VHP 4.303 DPA 53.23 RAP 11.89 ECC 1.2061
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 14 1710.86 -5.02 11.69 223.55 117.91 5 6 45 1110.9 -1.25 5.04
 90.00 13 23 3 5149.95 25.41 229.76 227.56 77.06 14 48 53 4550.0 23.37 221.68
 100.00 5 53 10 1469.08 -5.96 353.39 223.03 119.35 6 17 39 869.1 -2.01 346.84
 100.00 14 50 48 4866.97 26.45 208.67 227.28 75.54 16 11 55 4267.0 24.20 200.59
 110.00 6 46 58 1300.58 -8.42 339.11 221.53 123.25 7 8 39 700.6 -3.98 332.82
 110.00 16 13 29 4608.23 29.20 188.09 226.35 71.39 17 30 17 4008.2 26.39 180.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0999 TRA -.2972 TC3 .3188 BAU .4119 SGT 565.7 SGR 1788.8 SG3 473.4 ST 219.3 SR 445.1 SS 829.6
 RDE .2715 RRA .0951 RC3 2.4400 FAU .10230 RRT .2378 RRF -.9831 RTF -.2348 CRT -.7966 CRS .9942 CST -.7415
 FDE-1.3748 FRA -.0505 FC3-7.0734 BSP 5683 SGB 1876.2 R23 -.0239 R13 -.9828 LSA 955.3 MSA 145.9 SSA 23.7
 BDE .2893 BRA .3121 BC3 2.4608 FSP -1480 SG1 1794.4 SG2 547.7 THA 85.26 EL1 480.8 EL2 122.7 ALF 113.01

LAUNCH DATE FEB 5 1969

FLIGHT TIME 114.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 318.548

RL 147.50 LAL .00 LOL 136.02 VL 27.770 GAL -4.12 AZL 92.39 HCA 144.46 SMA 129.06 ECC .15958 INC 2.3873 V1 30.206
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.554 GAP -1.77 AZP 88.06 TAL 202.62 TAP 347.08 RCA 108.46 APO 149.65 V2 34.816
 RC 82.981 GL -18.75 GP 48.92 ZAL 129.22 ZAP 72.99 ETS 343.28 ZAE 130.70 ETE 76.87 ZAC 103.74 ETC 142.11 CLP -63.56

PLANETOCENTRIC CONIC

C3 12.880 VHL 3.589 DLA -15.54 RAL 11.40 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 4.376 DPA 55.17 RAP 6.40 ECC 1.2120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 17 1609.56 -1.77 6.01 225.74 118.27 5 38 7 1009.6 2.03 359.38
 90.00 13 1 31 5263.46 26.89 237.74 230.61 80.79 14 29 14 4663.5 25.35 229.41
 100.00 6 24 6 1374.54 -2.78 348.17 225.17 119.77 6 47 0 774.5 1.20 341.65
 100.00 14 31 23 4973.62 28.04 216.19 230.38 79.20 15 54 17 4373.6 26.26 207.84
 110.00 7 13 21 1220.23 -5.39 334.85 223.55 123.81 7 33 42 620.2 -.92 328.63
 110.00 15 58 37 4700.70 31.03 194.67 229.59 74.89 17 16 58 4100.7 28.65 186.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1461 TRA -.3036 TC3 .0561 BAU .4448 SGT 556.0 SGR 1959.5 SG3 461.0 ST 277.8 SR 630.1 SS 928.1
 RDE .3927 RRA .0603 RC3 2.5827 FAU .09823 RRT -.1119 RRF -.9866 RTF .1168 CRT -.8608 CRS .9980 CST -.8333
 FDE-1.5349 FRA .0410 FC3-6.6022 BSP 6182 SGB 2036.9 R23 .0031 R13 -.9866 LSA 1145.8 MSA 149.0 SSA 18.8
 BDE .4190 BRA .3096 BC3 2.5833 FSP -1446 SG1 1960.6 SG2 552.2 THA 91.98 EL1 675.9 EL2 131.8 ALF 111.65

LAUNCH DATE FEB 5 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 324.900

RL 147.50 LAL .00 LOL 136.02 VL 27.782 GAL -4.08 AZL 92.91 HCA 147.61 SMA 129.14 ECC .15870 INC 2.9065 V1 30.206
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.557 GAP -1.34 AZP 87.55 TAL 202.58 TAP 350.19 RCA 108.65 APO 149.63 V2 34.810
 RC 85.328 GL -22.53 GP 52.48 ZAL 127.92 ZAP 77.36 ETS 346.98 ZAE 127.61 ETE 82.58 ZAC 100.34 ETC 143.59 CLP -68.95

PLANETOCENTRIC CONIC

C3 13.449 VHL 3.667 DLA -18.90 RAL 13.20 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 4.514 DPA 56.96 RAP .32 ECC 1.2213
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 57 1491.18 2.05 359.41 228.84 118.25 6 16 48 891.2 5.81 352.75
 90.00 12 35 14 5400.46 28.00 247.60 234.46 85.61 14 5 15 4800.5 27.10 239.05
 100.00 7 1 45 1265.96 .90 342.22 228.20 119.88 7 22 50 666.0 4.87 335.68
 100.00 14 8 8 5100.91 29.32 225.43 234.33 83.89 15 33 9 4500.9 28.16 216.82
 110.00 7 44 55 1130.65 -1.98 330.16 226.40 124.13 8 3 46 530.7 2.51 323.95
 110.00 15 41 26 4808.98 32.68 202.68 233.75 79.36 17 1 35 4209.0 30.87 193.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2170 TRA -.3029 TC3 -.2150 BAU .4805 SGT 624.5 SGR 2126.8 SG3 438.5 ST 370.8 SR 842.5 SS 1023.0
 RDE .5379 RRA .0123 RC3 2.6635 FAU .09196 RRT -.4540 RRF -.9892 RTF .4595 CRT -.9159 CRS .9992 CST -.9028
 FDE-1.6762 FRA .1403 FC3-5.9192 BSP 6782 SGB 2216.6 R23 .0247 R13 -.9889 LSA 1367.6 MSA 151.7 SSA 14.9
 BDE .5800 BRA .3032 BC3 2.6721 FSP -1387 SG1 2146.9 SG2 551.2 THA 98.13 EL1 910.1 EL2 137.8 ALF 112.50

LAUNCH DATE FEB 5 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.789 GAL -4.04 AZL 93.52 HCA 150.76 SMA 129.19 ECC .15799 INC 3.5241 V1 30.206
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.556 GAP -.93 AZP 86.92 TAL 202.44 TAP 353.20 RCA 108.78 APO 149.60 V2 34.804
 RC 87.691 GL -26.75 GP 56.12 ZAL 126.16 ZAP 81.43 ETS 351.16 ZAE 124.16 ETE 88.09 ZAC 96.95 ETC 145.40 CLP -74.50

PLANETOCENTRIC CONIC
 C3 14.328 VHL 3.785 OLA -22.59 RAL 15.43 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 4.731 DPA 58.59 RAP 353.70 ECC 1.2358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 4 1343.50 6.77 351.12 233.25 117.56 7 7 28 743.5 10.41 344.33
 90.00 11 59 55 5575.91 28.25 260.42 239.16 92.02 13 32 51 4975.9 28.23 251.75
 100.00 7 49 45 1134.77 5.32 334.99 232.46 119.46 8 8 39 534.8 9.21 328.36
 100.00 13 37 56 5259.87 29.89 237.20 239.19 90.06 15 5 36 4659.9 29.58 228.41
 110.00 8 23 44 1028.20 1.93 324.81 230.35 124.14 8 40 52 428.2 6.40 318.57
 110.00 15 20 26 4939.21 33.88 212.65 238.99 85.14 16 42 45 4339.2 32.83 203.57

DIFFERENTIAL CORRECTIONS
 TOE -.3230 TRA -.2923 TC3 -.4807 BAU .5152 SGT 775.3 SGR 2272.4 SG3 404.6 ST 509.7 SR 1070.7 SS 1103.0
 RDE .7060 RRA -.0568 RC3 2.6462 FAU .08327 RRT -.6850 RRF -.9911 RTF .6900 CRT -.9512 CRS .9997 CST -.9453
 FDE -1.7794 FRA .2513 FC3 -5.0313 BSP 7366 SGB 2401.1 R23 .0424 R13 -.9903 LSA 1612.1 MSA 155.1 SSA 11.7
 BOE .7764 BRA .2978 BC3 2.6895 FSP -1282 SG1 2337.4 SG2 549.2 THA 103.94 EL1 1177.2 EL2 143.1 ALF 114.75

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.791 GAL -3.99 AZL 94.28 HCA 153.91 SMA 129.20 ECC .15743 INC 4.2761 V1 30.206
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.554 GAP -.53 AZP 86.16 TAL 202.21 TAP 356.12 RCA 108.86 APO 149.55 V2 34.799
 RC 90.065 GL -31.46 GP 59.82 ZAL 123.87 ZAP 85.09 ETS 355.83 ZAE 120.40 ETE 93.40 ZAC 93.62 ETC 147.55 CLP -80.20

PLANETOCENTRIC CONIC
 C3 15.686 VHL 3.961 OLA -26.61 RAL 18.18 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 5.045 DPA 60.07 RAP 346.53 ECC 1.2582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 7 19 1118.10 13.61 338.10 239.90 115.08 8 25 57 518.1 16.87 330.94
 90.00 10 59 35 5841.81 26.12 279.54 244.26 101.34 12 36 57 5241.8 27.42 271.12
 100.00 8 57 40 955.45 11.20 324.92 238.67 117.90 9 13 36 355.4 14.85 318.03
 100.00 12 51 54 5479.69 28.77 253.42 244.78 98.50 14 23 14 4879.7 29.64 244.72
 110.00 9 13 38 905.33 6.60 318.36 235.90 123.62 9 28 44 305.3 10.98 312.00
 110.00 14 52 26 5102.58 34.09 225.39 245.39 92.67 16 17 28 4502.6 34.09 216.14

DIFFERENTIAL CORRECTIONS
 TOE -.4742 TRA -.2639 TC3 -.7104 BAU .5486 SGT 984.7 SGR 2397.1 SG3 362.8 ST 698.1 SR 1311.3 SS 1167.0
 RDE .9041 RRA -.1482 RC3 2.5179 FAU .07292 RRT -.8122 RRF -.9925 RTF .8169 CRT -.9712 CRS .9999 CST -.9689
 FDE -1.8456 FRA .3590 FC3 -4.0243 BSP 7986 SGB 2591.4 R23 .0563 R13 -.9911 LSA 1882.4 MSA 157.8 SSA 9.2
 BOE 1.0209 BRA .3027 BC3 2.6162 FSP -1152 SG1 2533.8 SG2 543.4 THA 109.38 EL1 1478.2 EL2 147.4 ALF 117.64

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.790 GAL -3.92 AZL 95.22 HCA 157.05 SMA 129.19 ECC .15702 INC 5.2175 V1 30.206
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.549 GAP -.14 AZP 85.19 TAL 201.89 TAP 358.93 RCA 108.91 APO 149.48 V2 34.795
 RC 92.449 GL -36.67 GP 63.65 ZAL 121.02 ZAP 88.25 ETS 1.03 ZAE 116.33 ETE 98.58 ZAC 90.36 ETC 150.08 CLP -86.05

PLANETOCENTRIC CONIC
 C3 17.821 VHL 4.221 OLA -30.96 RAL 21.55 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 5.488 DPA 61.41 RAP 338.75 ECC 1.2933
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.94 8 2 53 1199.64 22.07 347.97 249.00 112.27 8 22 53 599.6 24.90 340.23
 103.06 11 30 56 5818.84 22.08 276.52 249.01 112.26 13 7 55 5218.8 24.91 268.78
 76.94 8 2 53 1199.64 22.07 347.97 249.00 112.27 8 22 53 599.6 24.90 340.23
 103.06 11 30 56 5818.84 22.08 276.52 249.01 112.26 13 7 55 5218.8 24.91 268.78
 110.00 10 24 53 737.68 12.80 309.33 244.03 121.97 10 37 11 137.7 16.93 302.66
 110.00 14 8 6 5328.79 32.02 242.68 252.51 102.67 15 36 55 4728.8 33.43 233.73

DIFFERENTIAL CORRECTIONS
 TOE -.6871 TRA -.2074 TC3 -.8730 BAU .5791 SGT 1233.1 SGR 2496.0 SG3 315.4 ST 938.0 SR 1550.2 SS 1208.5
 RDE 1.1375 RRA -.2664 RC3 2.2686 FAU .06152 RRT -.8815 RRF -.9937 RTF .8862 CRT -.9825 CRS 1.0000 CST -.9819
 FDE -1.8701 FRA .4559 FC3 -2.9885 BSP 8632 SGB 2784.0 R23 .0662 R13 -.9918 LSA 2172.1 MSA 159.0 SSA 7.2
 BOE 1.3290 BRA .3376 BC3 2.4307 FSP -1006 SG1 2732.7 SG2 531.8 THA 114.52 EL1 1805.7 EL2 150.0 ALF 120.97

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.785 GAL -3.84 AZL 96.44 HCA 160.18 SMA 129.16 ECC .15673 INC 6.4385 V1 30.206
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.541 GAP .22 AZP 83.94 TAL 201.47 TAP 1.65 RCA 108.92 APO 149.40 V2 34.791
 RC 94.840 GL -42.35 GP 67.66 ZAL 117.60 ZAP 90.81 ETS 6.87 ZAE 111.94 ETE 103.81 ZAC 87.16 ETC 153.14 CLP -92.12

PLANETOCENTRIC CONIC
 C3 21.294 VHL 4.615 OLA -35.54 RAL 25.70 RAD 6567.9 VEL 11.945 PTH 2.13 VHP 6.113 DPA 62.60 RAP 330.18 ECC 1.3504
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.57 7 19 44 1426.16 23.84 6.31 257.47 117.17 7 43 30 826.2 27.28 358.72
 112.43 12 47 12 5676.66 23.85 266.46 257.48 117.16 14 21 49 5076.7 27.29 258.87
 67.57 7 19 44 1426.16 23.84 6.31 257.47 117.17 7 43 30 826.2 27.28 358.72
 112.43 12 47 12 5676.66 23.85 266.46 257.48 117.16 14 21 49 5076.7 27.29 258.87
 67.57 7 19 44 1426.16 23.84 6.31 257.47 117.17 7 43 30 826.2 27.28 358.72
 112.43 12 47 12 5676.66 23.85 266.46 257.48 117.16 14 21 49 5076.7 27.29 258.87

DIFFERENTIAL CORRECTIONS
 TOE -.9902 TRA -.1069 TC3 -.9427 BAU .6021 SGT 1514.9 SGR 2554.4 SG3 264.7 ST 1230.7 SR 1760.1 SS 1218.6
 RDE 1.4084 RRA -.4218 RC3 1.8932 FAU .04948 RRT -.9212 RRF -.9948 RTF .9265 CRT -.9888 CRS 1.0000 CST -.9892
 FDE -1.8468 FRA .5405 FC3 -2.0116 BSP 9249 SGB 2969.9 R23 .0734 R13 -.9924 LSA 2464.2 MSA 158.8 SSA 5.5
 BOE 1.7216 BRA .4352 BC3 2.1149 FSP -844 SG1 2924.9 SG2 514.7 THA 119.66 EL1 2142.3 EL2 151.1 ALF 124.86

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 356.236

RL 147.50 LAL .00 LOL 136.02 VL 27.777 GAL -3.75 AZL 98.09 MCA 163.30 SMA 129.10 ECC .15655 INC 8.0949 V1 30.206
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.532 GAP .58 AZP 82.24 TAL 200.97 TAP 4.27 RCA 108.89 APO 149.31 V2 34.788
 RC 97.236 GL -48.38 GP 71.98 ZAL 113.65 ZAP 92.70 ETS 13.70 ZAE 107.19 ETE 109.52 ZAC 83.97 ETC 157.10 CLP -98.75

PLANETOCENTRIC CONIC

C3 27.257 VHL 5.221 DLA -40.18 RAL 30.80 RAD 6568.1 VEL 12.192 PTH 2.19 VHP 7.014 DPA 63.57 RAP 320.52 ECC 1.4486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.22 7 2 54 1594.86 24.47 20.53 268.18 122.92 7 29 29 994.9 28.62 13.30
 119.78 13 44 43 5628.92 24.48 262.96 268.19 122.91 15 18 32 5028.9 28.63 255.72
 60.22 7 2 54 1594.86 24.47 20.53 268.18 122.92 7 29 29 994.9 28.62 13.30
 119.78 13 44 43 5628.92 24.48 262.96 268.19 122.91 15 18 32 5028.9 28.63 255.72
 60.22 7 2 54 1594.86 24.47 20.53 268.18 122.92 7 29 29 994.9 28.62 13.30
 119.78 13 44 43 5628.92 24.48 262.96 268.19 122.91 15 18 32 5028.9 28.63 255.72

DIFFERENTIAL CORRECTIONS

TDE-1.4312 TRA .0706 TC3 -.8993 BAU .6129
 ROE 1.7165 RRA -.6225 RC3 1.4212 FAU .03755
 FDE-1.7791 FRA .6077 FC3-1.1928 BSP 9848
 BDE 2.2348 BRA .6265 BC3 1.6818 FSP -682

MID-COURSE EXECUTION ACCURACY

SGT 1832.7 SGR 2559.3 SG3 213.8
 RRT -.9472 RRF -.9957 RTF .9534
 SGB 3147.9 R23 .0761 R13 -.9933
 SG1 3110.5 SG2 483.7 THA 125.12

ORBIT DETERMINATION ACCURACY

ST 1571.2 SR 1903.2 SS 1194.1
 CRT -.9925 CRS 1.0000 CST -.9935
 LSA 2737.3 MSA 154.4 SSA 4.2
 EL1 2463.6 EL2 148.0 ALF 129.50

LAUNCH DATE FEB 5 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 362.399

RL 147.50 LAL .00 LOL 136.02 VL 27.765 GAL -3.65 AZL 100.48 MCA 166.40 SMA 129.02 ECC .15646 INC10.4831 V1 30.206
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.522 GAP .91 AZP 79.80 TAL 200.37 TAP 6.76 RCA 108.84 APO 149.21 V2 34.786
 RC 99.636 GL -54.50 GP 76.74 ZAL 109.27 ZAP 93.86 ETS 22.54 ZAE 101.93 ETE 116.85 ZAC 80.66 ETC 163.10 CLP -107.07

PLANETOCENTRIC CONIC

C3 38.345 VHL 6.192 DLA -44.54 RAL 37.00 RAD 6568.5 VEL 12.638 PTH 2.29 VHP 8.371 DPA 64.13 RAP 309.34 ECC 1.6311
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.06 7 1 53 1750.76 23.16 33.18 281.22 129.17 7 31 4 1150.8 28.05 26.57
 125.94 14 35 10 5644.66 23.17 263.29 281.23 129.17 16 9 14 5044.7 28.06 256.69
 54.06 7 1 53 1750.76 23.16 33.18 281.22 129.17 7 31 4 1150.8 28.05 26.57
 125.94 14 35 10 5644.66 23.17 263.29 281.23 129.17 16 9 14 5044.7 28.06 256.69
 54.06 7 1 53 1750.76 23.16 33.18 281.22 129.17 7 31 4 1150.8 28.05 26.57
 125.94 14 35 10 5644.66 23.17 263.29 281.23 129.17 16 9 14 5044.7 28.06 256.69

DIFFERENTIAL CORRECTIONS

TDE-2.1134 TRA .3992 TC3 -.7472 BAU .5991
 ROE 2.0222 RRA -.8737 RC3 .8986 FAU .02621
 FDE-1.6725 FRA .6613 FC3 -.5917 BSP 10381
 BDE 2.9251 BRA .9606 BC3 1.1686 FSP -527

MID-COURSE EXECUTION ACCURACY

SGT 2224.6 SGR 2454.8 SG3 165.5
 RRT -.9662 RRF -.9964 RTF .9737
 SGB 3312.8 R23 .0740 R13 -.9945
 SG1 3285.0 SG2 428.3 THA 132.09

ORBIT DETERMINATION ACCURACY

ST 1961.9 SR 1902.1 SS 1134.8
 CRT -.9949 CRS .9999 CST -.9963
 LSA 2955.4 MSA 142.6 SSA 3.1
 EL1 2729.1 EL2 137.3 ALF 135.89

LAUNCH DATE FEB 5 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 368.503

RL 147.50 LAL .00 LOL 136.02 VL 27.751 GAL -3.53 AZL 104.24 MCA 169.46 SMA 128.93 ECC .15644 INC14.2370 V1 30.206
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.510 GAP 1.23 AZP 75.99 TAL 199.66 TAP 9.12 RCA 108.76 APO 149.09 V2 34.784
 RC 102.038 GL -60.21 GP 82.09 ZAL 104.65 ZAP 94.25 ETS 37.41 ZAE 95.85 ETE 129.96 ZAC 76.99 ETC 175.31 CLP -122.59

PLANETOCENTRIC CONIC

C3 61.611 VHL 7.849 DLA -48.04 RAL 44.24 RAD 6569.1 VEL 13.527 PTH 2.47 VHP 10.573 DPA 63.85 RAP 296.13 ECC 2.0140
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.41 7 13 55 1911.84 19.07 44.39 296.12 134.98 7 45 47 1311.8 24.61 38.59
 130.59 15 20 55 5719.86 19.08 266.41 296.14 134.97 16 56 15 5119.9 24.63 260.61
 49.41 7 13 55 1911.84 19.07 44.39 296.12 134.98 7 45 47 1311.8 24.61 38.59
 130.59 15 20 55 5719.86 19.08 266.41 296.14 134.97 16 56 15 5119.9 24.63 260.61
 49.41 7 13 55 1911.84 19.07 44.39 296.12 134.98 7 45 47 1311.8 24.61 38.59
 130.59 15 20 55 5719.86 19.08 266.41 296.14 134.97 16 56 15 5119.9 24.63 260.61

DIFFERENTIAL CORRECTIONS

TDE-3.3142 TRA 1.0969 TC3 -.5130 BAU .5330
 ROE 2.0663 RRA -1.0796 RC3 .3944 FAU .01583
 FDE-1.5538 FRA .7142 FC3 -.2225 BSP 10912
 BDE 3.9056 BRA 1.5390 BC3 .6471 FSP -392

MID-COURSE EXECUTION ACCURACY

SGT 2817.0 SGR 2011.9 SG3 122.7
 RRT -.9809 RRF -.9962 RTF .9897
 SGB 3461.7 R23 .0653 R13 -.9962
 SG1 3446.9 SG2 319.9 THA 144.64

ORBIT DETERMINATION ACCURACY

ST 2445.9 SR 1549.3 SS 1057.9
 CRT -.9966 CRS .9996 CST -.9984
 LSA 3080.4 MSA 113.0 SSA 2.2
 EL1 2893.2 EL2 108.4 ALF 147.69

LAUNCH DATE FEB 5 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 374.503

RL 147.50 LAL .00 LOL 136.02 VL 27.735 GAL -3.38 AZL 110.96 MCA 172.44 SMA 128.81 ECC .15641 INC20.9621 V1 30.206
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.497 GAP 1.51 AZP 69.20 TAL 198.79 TAP 11.24 RCA 108.66 APO 148.96 V2 34.783
 RC 104.441 GL -64.37 GP 86.03 ZAL 100.03 ZAP 93.86 ETS 80.40 ZAE 88.20 ETE 171.10 ZAC 72.33 ETC 216.19 CLP 166.09

PLANETOCENTRIC CONIC

C3 120.693 VHL 10.986 DLA -49.63 RAL 51.83 RAD 6570.3 VEL 15.557 PTH 2.77 VHP 14.597 DPA 61.74 RAP 280.56 ECC 2.9863
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.37 7 37 21 2078.29 12.02 53.09 311.39 138.53 8 11 59 1478.3 17.95 47.95
 132.63 15 57 59 5853.26 12.03 271.83 311.40 138.53 17 35 32 5253.3 17.96 266.69
 47.37 7 37 21 2078.29 12.02 53.09 311.39 138.53 8 11 59 1478.3 17.95 47.95
 132.63 15 57 59 5853.26 12.03 271.83 311.40 138.53 17 35 32 5253.3 17.96 266.69
 47.37 7 37 21 2078.29 12.02 53.09 311.39 138.53 8 11 59 1478.3 17.95 47.95
 132.63 15 57 59 5853.26 12.03 271.83 311.40 138.53 17 35 32 5253.3 17.96 266.69

DIFFERENTIAL CORRECTIONS

TDE-5.3417 TRA 2.6524 TC3 -.1946 BAU .3141
 ROE-1.0191 RRA .0388 RC3 .0022 FAU .00558
 FDE-1.4868 FRA .8185 FC3 -.0400 BSP 11191
 BDE 5.4380 BRA 2.6527 BC3 .1946 FSP -280

MID-COURSE EXECUTION ACCURACY

SGT 3536.3 SGR 532.5 SG3 88.3
 RRT .8208 RRF .7949 RTF .9981
 SGB 3576.2 R23 -.0531 R13 .9976
 SG1 3563.4 SG2 301.9 THA 7.10

ORBIT DETERMINATION ACCURACY

ST 2858.6 SR 531.6 SS 1009.2
 CRT .9783 CRS -.9732 CST -.9997
 LSA 3075.8 MSA 112.0 SSA 1.6
 EL1 2905.6 EL2 108.2 ALF 10.33

LAUNCH DATE FEB 5 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 380.237

RL 147.50 LAL .00 LOL 136.02 VL 27.716 GAL -3.18 AZL 125.79 MCA 175.20 SMA 128.68 ECC .15621 INC35.7892 V1 30.206
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.483 GAP 1.72 AZP 54.31 TAL 197.62 TAP 12.82 RCA 108.58 APO 148.78 V2 34.783
 RC 106.844 GL -63.79 GP 77.13 ZAL 95.77 ZAP 92.76 ETS 152.50 ZAE 76.53 ETE 241.39 ZAC 64.84 ETC 287.87 CLP 102.50

PLANETOCENTRIC CONIC

C3 325.355 VHL 18.038 CLA -46.70 RAL 57.25 RAD 6571.8 VEL 21.134 PTH 3.20 VHP 23.452 DPA 55.04 RAP 262.72 ECC 6.3545
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.17 8 11 57 2200.85 3.89 56.08 323.57 136.58 8 48 38 1600.8 9.67 50.93
 128.83 16 6 41 751.43 3.90 303.14 323.59 136.58 16 19 13 151.4 9.69 297.99
 51.17 8 11 57 2200.85 3.89 56.08 323.57 136.58 8 48 38 1600.8 9.67 50.93
 128.83 16 6 41 751.43 3.90 303.14 323.59 136.58 16 19 13 151.4 9.69 297.99
 51.17 8 11 57 2200.85 3.89 56.08 323.57 136.58 8 48 38 1600.8 9.67 50.93
 128.83 16 6 41 751.43 3.90 303.14 323.59 136.58 16 19 13 151.4 9.69 297.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .7413 TRA 1.7668 TC3 -.0112 BAU .5197 SGT 852.5 SGR 3491.4 SG3 65.2 ST 340.2 SR 2716.6 SS 1117.2
 ROE-8.2830 RRA 4.8675 RC3 .1190 FAU-.00986 RRT .4059 RRF .9969 RTF .4756 CRT -.4907 CRS -.9992 CST .4546
 FDE-1.6619 FRA 1.1447 FC3 .0262 BSP 11345 SGB 3594.0 R23 -.0546 R13 .9984 LSA 2941.8 MSA 299.9 SSA .6
 BOE 8.3161 BRA 5.1783 BC3 .1195 FSP -210 SG1 3509.4 SG2 775.1 THA 84.05 EL1 2721.8 EL2 295.8 ALF 93.56

LAUNCH DATE FEB 5 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 384.932

RL 147.50 LAL .00 LOL 136.02 VL 27.695 GAL -2.76 AZL 165.83 MCA 177.00 SMA 128.54 ECC .15505 INC75.8288 V1 30.206
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.468 GAP 1.65 AZP 14.19 TAL 195.35 TAP 12.35 RCA 108.61 APO 148.47 V2 34.784
 RC 109.246 GL -48.79 GP 53.83 ZAL 92.59 ZAP 91.39 ETS 172.86 ZAE 52.87 ETE 259.73 ZAC 49.39 ETC 316.13 CLP 92.35

PLANETOCENTRIC CONIC

C31271.021 VHL 35.651 CLA -30.97 RAL 55.24 RAD 6573.1 VEL 37.314 PTH 3.54 VHP 45.307 DPA 35.21 RAP 244.60 ECC21.9178
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.91 10 17 2 1905.81 -.57 28.55 326.16 120.96 10 48 48 1305.8 3.54 22.10
 103.09 13 45 31 1235.63 -.55 339.10 326.17 120.96 14 6 6 635.6 3.56 332.65
 76.91 10 17 2 1905.81 -.57 28.55 326.16 120.96 10 48 48 1305.8 3.54 22.10
 103.09 13 45 31 1235.63 -.55 339.10 326.17 120.96 14 6 6 635.6 3.56 332.65
 110.00 12 39 27 1442.54 -13.61 346.82 318.20 121.66 13 3 30 842.5 -9.33 340.34
 110.00 16 22 16 746.90 12.47 309.84 334.17 122.09 16 34 43 146.9 16.62 303.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 5.3554 TRA -.3954 TC3 -.0785 BAU 3.7680 SGT 1029.5 SGR 2965.4 SG3 54.9 ST 861.1 SR 1791.2 SS 1488.0
 RO-10.5413 RRA10.3141 RC3 .2074 FAU-.06397 RRT -.7958 RRF .9998 RTF -.7851 CRT -.9542 CRS -.9999 CST .9509
 FDE-2.2287 FRA 2.2575 FC3 .0436 BSP 9310 SGB 3139.0 R23 -.0734 R13 .9973 LSA 2470.5 MSA 246.6 SSA .6
 BDE11.8237 BRA10.3217 BC3 .2217 FSP -170 SG1 3081.1 SG2 600.0 THA 106.07 EL1 1975.6 EL2 233.9 ALF 115.02

LAUNCH DATE FEB 5 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 395.013

RL 147.50 LAL .00 LOL 136.02 VL 27.672 GAL -3.41 AZL 38.98 MCA 183.86 SMA 128.38 ECC .16014 INC51.0249 V1 30.206
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.453 GAP 3.02 AZP 140.96 TAL 198.39 TAP 22.25 RCA 107.82 APO 148.94 V2 34.785
 RC 111.645 GL 58.86 GP -69.48 ZAL 94.39 ZAP 93.79 ETS 181.42 ZAE 71.28 ETE 95.73 ZAC 85.69 ETC 55.97 CLP 100.88

PLANETOCENTRIC CONIC

C3 629.465 VHL 25.089 CLA 65.58 RAL 352.81 RAD 6572.6 VEL 27.400 PTH 3.40 VHP 30.307 DPA -75.24 RAP 155.73 ECC11.3594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.01 14 47 49 5039.72 -1.23 243.68 262.26 24.43 16 11 49 4439.7 -8.51 240.76
 151.99 0 56 42 3318.22 -1.23 99.20 262.25 24.43 1 52 0 2718.2 -8.50 96.28
 28.01 14 47 49 5039.72 -1.23 243.68 262.26 24.43 16 11 49 4439.7 -8.51 240.76
 151.99 0 56 42 3318.22 -1.23 99.20 262.25 24.43 1 52 0 2718.2 -8.50 96.28
 28.01 14 47 49 5039.72 -1.23 243.68 262.26 24.43 16 11 49 4439.7 -8.51 240.76
 151.99 0 56 42 3318.22 -1.23 99.20 262.25 24.43 1 52 0 2718.2 -8.50 96.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.7517 TRA 1.8430 TC3 -.0815 BAU 1.8147 SGT 1167.7 SGR 3504.3 SG3 60.6 ST 503.4 SR 2967.5 SS 1564.3
 RO-12.8121 RRA 2.9837 RC3 -.1997 FAU-.02697 RRT .7961 RRF -.9998 RTF -.7944 CRT .8848 CRS 1.0000 CST .8852
 FDE 2.5789 FRA -.6036 FC3 .0371 BSP 11574 SGB 3693.7 R23 -.0542 R13 -.9983 LSA 3384.2 MSA 232.5 SSA 1.2
 BDE12.9313 BRA 3.5071 BC3 .2156 FSP -199 SG1 3630.2 SG2 682.1 THA 74.59 EL1 3001.0 EL2 232.0 ALF 81.41

LAUNCH DATE FEB 5 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 400.452

RL 147.50 LAL .00 LOL 136.02 VL 27.648 GAL -3.13 AZL 61.09 MCA 186.38 SMA 128.21 ECC .15983 INC28.9149 V1 30.206
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.436 GAP 3.14 AZP 118.76 TAL 196.83 TAP 23.21 RCA 107.72 APO 148.70 V2 34.787
 RC 114.042 GL 64.74 GP -81.30 ZAL 96.94 ZAP 96.93 ETS 209.69 ZAE 86.57 ETE 124.18 ZAC 95.99 ETC 85.76 CLP 142.95

PLANETOCENTRIC CONIC

C3 217.825 VHL 14.759 CLA 65.99 RAL 335.82 RAD 6571.2 VEL 18.416 PTH 3.04 VHP 17.368 DPA -74.14 RAP 93.96 ECC 4.5849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.53 13 38 55 4930.53 -8.13 241.33 242.18 24.27 15 1 5 4330.5 -15.40 238.34
 152.47 23 46 5 3205.68 -8.12 96.31 242.16 24.27 24 39 30 2605.7 -15.39 93.32
 27.53 13 38 55 4930.53 -8.13 241.33 242.18 24.27 15 1 5 4330.5 -15.40 238.34
 152.47 23 46 5 3205.68 -8.12 96.31 242.16 24.27 24 39 30 2605.7 -15.39 93.32
 27.53 13 38 55 4930.53 -8.13 241.33 242.18 24.27 15 1 5 4330.5 -15.40 238.34
 152.47 23 46 5 3205.68 -8.12 96.31 242.16 24.27 24 39 30 2605.7 -15.39 93.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.0178 TRA -.1047 TC3 -.0141 BAU .1455 SGT 1176.5 SGR 3813.3 SG3 80.8 ST 1171.9 SR 2402.1 SS 1000.3
 ROE-5.7046 RRA 3.2498 RC3 -.0479 FAU .00103 RRT -.6461 RRF -.9909 RTF .7381 CRT -.9316 CRS .9965 CST -.9586
 FDE 1.6330 FRA -.7199 FC3 -.0041 BSP 12708 SGB 3990.6 R23 -.0810 R13 -.9959 LSA 2827.3 MSA 387.3 SSA 1.6
 BOE 6.4536 BRA 3.2515 BC3 .0500 FSP -266 SG1 3892.4 SG2 879.8 THA 101.89 EL1 2644.5 EL2 387.0 ALF 115.01

LAUNCH DATE FEB 5 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 406.294

RL 147.50 LAL .00 LOL 136.02 VL 27.621 GAL -2.92 AZL 70.10 HCA 189.31 SMA 128.03 ECC .16017 INC19.9023 V1 30.206
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.420 GAP 3.37 AZP 109.66 TAL 195.62 TAP 24.92 RCA 107.52 APO 148.54 V2 34.790
 RC 116.435 GL 63.97 GP -78.73 ZAL 99.26 ZAP 100.82 ETS 284.08 ZAE 95.48 ETE 198.34 ZAC 101.17 ETC 160.75 CLP-163.87

PLANETOCENTRIC CONIC

C3 109.215 VHL 10.451 CLA 63.74 RAL 334.49 RAD 6570.1 VEL 15.184 PTH 2.73 VHP 12.029 DPA -68.23 RAP 69.83 ECC 2.7974
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.17 13 39 45 4798.35 -15.42 236.17 236.68 27.32 14 59 43 4198.4 -22.49 232.62
 149.83 23 34 41 3092.63 -15.41 94.13 236.66 27.32 24 26 14 2492.6 -22.48 90.59
 30.17 13 39 45 4798.35 -15.42 236.17 236.68 27.32 14 59 43 4198.4 -22.49 232.62
 149.83 23 34 41 3092.63 -15.41 94.13 236.66 27.32 24 26 14 2492.6 -22.48 90.59
 30.17 13 39 45 4798.35 -15.42 236.17 236.68 27.32 14 59 43 4198.4 -22.49 232.62
 149.83 23 34 41 3092.63 -15.41 94.13 236.66 27.32 24 26 14 2492.6 -22.48 90.59

DIFFERENTIAL CORRECTIONS

TOE 4.3735 TRA-2.6501 TC3 -.2468 BAU .3605
 RDE .2658 RRA .3035 RC3 -.0067 FAU .01451
 FDE 1.5253 FRA -.7685 FC3 -.1150 BSP 13109
 BDE 4.3820 BRA 2.6674 BC3 .2469 FSP -369

MID-COURSE EXECUTION ACCURACY

SGT 4098.9 SGR 403.5 SG3 111.5
 RRT -.5310 RRF -.4475 RTF .9942
 SGB 4118.7 R23 -.0993 R13 -.9938
 SG1 4104.5 SG2 341.5 THA 176.99

ORBIT DETERMINATION ACCURACY

ST 2592.5 SR 184.3 SS 918.5
 CRT .4988 CRS -.5503 CST -.9982
 LSA 2751.5 MSA 167.4 SSA 1.8
 EL1 2594.2 EL2 159.6 ALF 2.04

LAUNCH DATE FEB 5 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 412.241

RL 147.50 LAL .00 LOL 136.02 VL 27.594 GAL -2.73 AZL 74.77 HCA 192.35 SMA 127.84 ECC .16077 INC15.2288 V1 30.206
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.403 GAP 3.63 AZP 104.89 TAL 194.48 TAP 26.83 RCA 107.29 APO 148.40 V2 34.794
 RC 118.823 GL 61.42 GP -72.34 ZAL 101.11 ZAP 105.10 ETS 304.98 ZAE 102.04 ETE 218.36 ZAC 104.57 ETC 181.75 CLP-149.19

PLANETOCENTRIC CONIC

C3 67.970 VHL 8.244 CLA 61.38 RAL 337.53 RAD 6569.3 VEL 13.759 PTH 2.51 VHP 9.356 DPA -62.38 RAP 57.67 ECC 2.1186
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.97 13 58 35 4680.89 -21.32 230.50 235.25 30.94 15 16 36 4080.9 -28.12 226.27
 147.03 23 40 5 2998.00 -21.31 91.74 235.23 30.94 24 30 3 2398.0 -28.11 87.50
 32.97 13 58 35 4680.89 -21.32 230.50 235.25 30.94 15 16 36 4080.9 -28.12 226.27
 147.03 23 40 5 2998.00 -21.31 91.74 235.23 30.94 24 30 3 2398.0 -28.11 87.50
 32.97 13 58 35 4680.89 -21.32 230.50 235.25 30.94 15 16 36 4080.9 -28.12 226.27
 147.03 23 40 5 2998.00 -21.31 91.74 235.23 30.94 24 30 3 2398.0 -28.11 87.50

DIFFERENTIAL CORRECTIONS

TOE 3.2503 TRA-2.2271 TC3 -.6024 BAU .5797
 RDE 1.3206 RRA -.5199 RC3 -.2098 FAU .02686
 FDE 1.6153 FRA -.8362 FC3 -.3421 BSP 14515
 BDE 3.5084 BRA 2.2870 BC3 .6379 FSP -551

MID-COURSE EXECUTION ACCURACY

SGT 4065.7 SGR 1237.3 SG3 150.9
 RRT .9649 RRF .9906 RTF .9881
 SGB 4249.8 R23 .1199 R13 .9909
 SG1 4238.3 SG2 311.6 THA 16.46

ORBIT DETERMINATION ACCURACY

ST 2458.3 SR 945.3 SS 954.1
 CRT .9866 CRS -.9974 CST -.9958
 LSA 2796.8 MSA 157.4 SSA 2.3
 EL1 2629.8 EL2 143.9 ALF 20.84

LAUNCH DATE FEB 5 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 418.234

RL 147.50 LAL .00 LOL 136.02 VL 27.565 GAL -2.53 AZL 77.61 HCA 195.44 SMA 127.65 ECC .16152 INC12.3908 V1 30.206
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.385 GAP 3.90 AZP 101.96 TAL 193.34 TAP 28.78 RCA 107.03 APO 148.27 V2 34.798
 RC 121.206 GL 58.44 GP -66.01 ZAL 102.44 ZAP 109.55 ETS 310.21 ZAE 107.35 ETE 222.10 ZAC 107.17 ETC 186.70 CLP-145.41

PLANETOCENTRIC CONIC

C3 48.088 VHL 6.935 CLA 59.19 RAL 341.64 RAD 6568.8 VEL 13.017 PTH 2.37 VHP 7.833 DPA -56.75 RAP 50.15 ECC 1.7914
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.58 14 21 34 4584.16 -25.63 224.93 235.03 34.62 15 37 58 3984.2 -32.11 219.99
 144.42 23 49 56 2925.27 -25.62 89.36 235.01 34.62 24 38 41 2325.3 -32.10 84.43
 35.58 14 21 34 4584.16 -25.63 224.93 235.03 34.62 15 37 58 3984.2 -32.11 219.99
 144.42 23 49 56 2925.27 -25.62 89.36 235.01 34.62 24 38 41 2325.3 -32.10 84.43
 35.58 14 21 34 4584.16 -25.63 224.93 235.03 34.62 15 37 58 3984.2 -32.11 219.99
 144.42 23 49 56 2925.27 -25.62 89.36 235.01 34.62 24 38 41 2325.3 -32.10 84.43

DIFFERENTIAL CORRECTIONS

TOE 2.8270 TRA-1.8551 TC3 -.9412 BAU .6471
 RDE 1.3458 RRA -.4983 RC3 -.3565 FAU .03554
 FDE 1.8034 FRA -.8134 FC3 -.6398 BSP 13280
 BDE 3.1310 BRA 1.9209 BC3 1.0065 FSP -613

MID-COURSE EXECUTION ACCURACY

SGT 4014.1 SGR 1458.4 SG3 187.9
 RRT .9647 RRF .9933 RTF .9811
 SGB 4270.8 R23 .1480 R13 .9860
 SG1 4255.5 SG2 362.1 THA 19.46

ORBIT DETERMINATION ACCURACY

ST 2502.6 SR 1137.9 SS 1043.1
 CRT .9883 CRS -.9990 CST -.9941
 LSA 2935.0 MSA 177.8 SSA 3.0
 EL1 2744.6 EL2 158.5 ALF 24.28

LAUNCH DATE FEB 5 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 424.231

RL 147.50 LAL .00 LOL 136.02 VL 27.535 GAL -2.33 AZL 79.52 HCA 198.55 SMA 127.45 ECC .16241 INC10.4833 V1 30.206
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.368 GAP 4.17 AZP 99.95 TAL 192.19 TAP 30.74 RCA 106.75 APO 148.15 V2 34.803
 RC 123.581 GL 55.45 GP -60.11 ZAL 103.29 ZAP 114.02 ETS 312.12 ZAE 111.76 ETE 221.96 ZAC 109.33 ETC 187.99 CLP-144.77

PLANETOCENTRIC CONIC

C3 36.941 VHL 6.078 CLA 57.20 RAL 345.92 RAD 6568.4 VEL 12.582 PTH 2.28 VHP 6.900 DPA -51.37 RAP 45.09 ECC 1.6080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.98 14 44 53 4505.52 -28.64 219.71 235.33 38.11 15 59 59 3905.5 -34.80 214.12
 142.02 0 4 37 2871.04 -28.63 87.19 235.31 38.11 0 52 28 2271.0 -34.79 81.60
 37.98 14 44 53 4505.52 -28.64 219.71 235.33 38.11 15 59 59 3905.5 -34.80 214.12
 142.02 0 4 37 2871.04 -28.63 87.19 235.31 38.11 0 52 28 2271.0 -34.79 81.60
 37.98 14 44 53 4505.52 -28.64 219.71 235.33 38.11 15 59 59 3905.5 -34.80 214.12
 142.02 0 4 37 2871.04 -28.63 87.19 235.31 38.11 0 52 28 2271.0 -34.79 81.60

DIFFERENTIAL CORRECTIONS

TOE 2.5822 TRA-1.6356 TC3-1.3500 BAU .7094
 RDE 1.2032 RRA -.4164 RC3 -.4907 FAU .04483
 FDE 1.9309 FRA -.7905 FC3-1.0505 BSP 13555
 BDE 2.8487 BRA 1.6877 BC3 1.4365 FSP -746

MID-COURSE EXECUTION ACCURACY

SGT 4088.9 SGR 1472.2 SG3 225.9
 RRT .9639 RRF .9932 RTF .9767
 SGB 4345.9 R23 .1652 R13 .9821
 SG1 4330.0 SG2 370.3 THA 19.29

ORBIT DETERMINATION ACCURACY

ST 2580.1 SR 1155.0 SS 1112.9
 CRT .9891 CRS -.9994 CST -.9935
 LSA 3032.6 MSA 181.3 SSA 3.7
 EL1 2822.5 EL2 155.7 ALF 23.96

LAUNCH DATE FEB 5 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 430.227

RL 147.50 LAL .00 LOL 136.02 VL 27.504 GAL -2.13 AZL 80.89 HCA 201.68 SMA 127.24 ECC .16341 INC 9.1087 V1 30.206
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.350 GAP 4.44 AZP 98.47 TAL 191.01 TAP 32.69 RCA 106.45 APO 148.03 V2 34.808
 RC 125.948 GL 52.58 GP -54.72 ZAL 103.70 ZAP 118.36 ETS 313.05 ZAE 115.42 ETE 220.40 ZAC 111.22 ETC 188.07 CLP-145.31

PLANETOCENTRIC CONIC

C3 30.015 VHL 5.479 CLA 55.43 RAL 350.12 RAD 6568.2 VEL 12.304 PTH 2.22 VHP 6.306 DPA -46.29 RAP 41.59 ECC 1.4940
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.13 15 7 31 4441.17 -30.71 214.95 235.97 41.30 16 21 33 3841.2 -36.55 208.80
 139.87 0 15 29 2830.75 -30.69 85.28 235.96 41.29 1 2 39 2230.7 -36.54 79.14
 40.13 15 7 31 4441.17 -30.71 214.95 235.97 41.30 16 21 33 3841.2 -36.55 208.80
 139.87 0 15 29 2830.75 -30.69 85.28 235.96 41.29 1 2 39 2230.7 -36.54 79.14
 40.13 15 7 31 4441.17 -30.71 214.95 235.97 41.30 16 21 33 3841.2 -36.55 208.80
 139.87 0 15 29 2830.75 -30.69 85.28 235.96 41.29 1 2 39 2230.7 -36.54 79.14

DIFFERENTIAL CORRECTIONS

TDE 2.4337 TRA-1.4637 TC3-1.7870 BAU .7549
 RDE 1.0519 RRA -.3271 RC3 -.5878 FAU .05274
 FDE 2.0107 FRA -.7321 FC3-1.5211 BSP 13864
 BDE 2.6513 BRA 1.4998 BC3 1.8812 FSP -868

MID-COURSE EXECUTION ACCURACY

SGT 4194.1 SGR 1410.1 SG3 259.5
 RRT .9617 RRF .9917 RTF .9730
 SGB 4424.8 R23 .1780 R13 .9782
 SG1 4409.4 SG2 367.8 THA 18.05

ORBIT DETERMINATION ACCURACY

ST 2671.5 SR 1115.1 SS 1167.0
 CRT .9895 CRS -.9996 CST -.9931
 LSA 3115.9 MSA 181.6 SSA 4.5
 EL1 2891.0 EL2 148.9 ALF 22.50

LAUNCH DATE FEB 5 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 436.218

RL 147.50 LAL .00 LOL 136.02 VL 27.472 GAL -1.92 AZL 81.93 HCA 204.82 SMA 127.03 ECC .16453 INC 8.0665 V1 30.206
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.333 GAP 4.71 AZP 97.33 TAL 189.80 TAP 34.63 RCA 106.13 APO 147.92 V2 34.815
 RC 128.306 GL 49.88 GP -49.84 ZAL 103.71 ZAP 122.48 ETS 313.66 ZAE 118.41 ETE 218.24 ZAC 112.95 ETC 187.68 CLP-146.37

PLANETOCENTRIC CONIC

C3 25.385 VHL 5.038 CLA 53.87 RAL 354.20 RAD 6568.0 VEL 12.115 PTH 2.17 VHP 5.923 DPA -41.55 RAP 39.18 ECC 1.4178
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.05 15 29 16 4387.85 -32.12 210.69 236.94 44.12 16 42 24 3787.8 -37.67 204.07
 137.95 0 26 19 2800.66 -32.10 83.66 236.93 44.11 1 13 0 2200.7 -37.66 77.05
 42.05 15 29 16 4387.85 -32.12 210.69 236.94 44.12 16 42 24 3787.8 -37.67 204.07
 137.95 0 26 19 2800.66 -32.10 83.66 236.93 44.11 1 13 0 2200.7 -37.66 77.05
 42.05 15 29 16 4387.85 -32.12 210.69 236.94 44.12 16 42 24 3787.8 -37.67 204.07
 137.95 0 26 19 2800.66 -32.10 83.66 236.93 44.11 1 13 0 2200.7 -37.66 77.05

DIFFERENTIAL CORRECTIONS

TDE 2.3362 TRA-1.3126 TC3-2.2369 BAU .7902
 RDE .9185 RRA -.2465 RC3 -.6467 FAU .05882
 FDE 2.0437 FRA -.6396 FC3-2.0059 BSP 14129
 BDE 2.5103 BRA 1.3356 BC3 2.3285 FSP -964

MID-COURSE EXECUTION ACCURACY

SGT 4306.7 SGR 1319.8 SG3 286.7
 RRT .9584 RRF .9891 RTF .9695
 SGB 4504.4 R23 .1870 R13 .9742
 SG1 4489.9 SG2 361.2 THA 16.48

ORBIT DETERMINATION ACCURACY

ST 2763.9 SR 1054.4 SS 1204.7
 CRT .9898 CRS -.9997 CST -.9927
 LSA 3189.0 MSA 180.9 SSA 5.4
 EL1 2954.9 EL2 140.4 ALF 20.74

LAUNCH DATE FEB 5 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 442.200

RL 147.50 LAL .00 LOL 136.02 VL 27.440 GAL -1.69 AZL 82.75 HCA 207.97 SMA 126.81 ECC .16577 INC 7.2452 V1 30.206
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.315 GAP 4.98 AZP 96.41 TAL 188.57 TAP 36.54 RCA 105.79 APO 147.83 V2 34.821
 RC 130.653 GL 47.35 GP -45.46 ZAL 103.35 ZAP 126.34 ETS 314.16 ZAE 120.83 ETE 215.82 ZAC 114.59 ETC 187.11 CLP-147.65

PLANETOCENTRIC CONIC

C3 22.119 VHL 4.703 CLA 52.50 RAL 358.19 RAD 6567.9 VEL 11.979 PTH 2.13 VHP 5.680 DPA -37.17 RAP 37.56 ECC 1.3640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.75 15 50 13 4343.07 -33.07 206.91 238.23 46.59 17 2 36 3743.1 -38.35 199.92
 136.25 0 37 13 2778.10 -33.06 82.31 238.21 46.58 1 23 31 2178.1 -38.34 75.32
 43.75 15 50 13 4343.07 -33.07 206.91 238.23 46.59 17 2 36 3743.1 -38.35 199.92
 136.25 0 37 13 2778.10 -33.06 82.31 238.21 46.58 1 23 31 2178.1 -38.34 75.32
 43.75 15 50 13 4343.07 -33.07 206.91 238.23 46.59 17 2 36 3743.1 -38.35 199.92
 136.25 0 37 13 2778.10 -33.06 82.31 238.21 46.58 1 23 31 2178.1 -38.34 75.32

DIFFERENTIAL CORRECTIONS

TDE 2.2666 TRA-1.1729 TC3-2.6926 BAU .8208
 RDE .8057 RRA -.1796 RC3 -.6743 FAU .06311
 FDE 2.0337 FRA -.5239 FC3-2.4703 BSP 14402
 BDE 2.4056 BRA 1.1866 BC3 2.7758 FSP -1036

MID-COURSE EXECUTION ACCURACY

SGT 4421.4 SGR 1222.6 SG3 307.1
 RRT .9546 RRF .9853 RTF .9663
 SGB 4587.4 R23 .1913 R13 .9704
 SG1 4573.8 SG2 352.2 THA 14.88

ORBIT DETERMINATION ACCURACY

ST 2850.7 SR 987.6 SS 1226.1
 CRT .9902 CRS -.9998 CST -.9924
 LSA 3251.6 MSA 179.4 SSA 6.4
 EL1 3014.1 EL2 130.8 ALF 18.97

LAUNCH DATE FEB 5 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 448.172

RL 147.50 LAL .00 LOL 136.02 VL 27.406 GAL -1.46 AZL 83.42 HCA 211.12 SMA 126.59 ECC .16712 INC 6.5778 V1 30.206
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.297 GAP 5.25 AZP 95.64 TAL 187.31 TAP 38.43 RCA 105.43 APO 147.74 V2 34.829
 RC 132.989 GL 44.97 GP -41.55 ZAL 102.67 ZAP 129.92 ETS 314.62 ZAE 122.75 ETE 213.34 ZAC 116.17 ETC 186.49 CLP-149.03

PLANETOCENTRIC CONIC

C3 19.723 VHL 4.441 CLA 51.29 RAL 358.19 RAD 6567.8 VEL 11.879 PTH 2.11 VHP 5.533 DPA -33.14 RAP 36.55 ECC 1.3246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.26 16 10 33 4305.06 -33.71 203.57 239.83 48.74 17 22 19 3705.1 -38.75 196.28
 134.74 0 48 18 2761.10 -33.70 81.20 239.82 48.73 1 34 20 2161.1 -38.74 73.91
 45.26 16 10 33 4305.06 -33.71 203.57 239.83 48.74 17 22 19 3705.1 -38.75 196.28
 134.74 0 48 18 2761.10 -33.70 81.20 239.82 48.73 1 34 20 2161.1 -38.74 73.91
 45.26 16 10 33 4305.06 -33.71 203.57 239.83 48.74 17 22 19 3705.1 -38.75 196.28
 134.74 0 48 18 2761.10 -33.70 81.20 239.82 48.73 1 34 20 2161.1 -38.74 73.91

DIFFERENTIAL CORRECTIONS

TDE 2.2135 TRA-1.0399 TC3-3.1497 BAU .8495
 RDE .7116 RRA -.1261 RC3 -.6784 FAU .06585
 FDE 1.9878 FRA -.3962 FC3-2.8904 BSP 14725
 BDE 2.3250 BRA 1.0475 BC3 3.2219 FSP -1089

MID-COURSE EXECUTION ACCURACY

SGT 4537.0 SGR 1128.5 SG3 321.4
 RRT .9503 RRF .9800 RTF .9635
 SGB 4675.2 R23 .1903 R13 .9669
 SG1 4662.7 SG2 342.0 THA 13.37

ORBIT DETERMINATION ACCURACY

ST 2928.5 SR 921.6 SS 1232.1
 CRT .9906 CRS -.9999 CST -.9920
 LSA 3303.4 MSA 177.1 SSA 7.4
 EL1 3067.7 EL2 120.3 ALF 17.34

LAUNCH DATE FEB 5 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 454.132

RL 147.50 LAL .00 LOL 136.02 VL 27.372 GAL -1.22 AZL 83.98 HCA 214.28 SMA 126.36 ECC .16860 INC 6.0218 V1 30.206
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.280 GAP 5.52 AZP 94.98 TAL 186.02 TAP 40.29 RCA 105.06 APO 147.67 V2 34.837
 RC 135.313 GL 42.71 GP -38.09 ZAL 101.68 ZAP 133.21 ETS 315.05 ZAE 124.25 ETE 210.93 ZAC 117.74 ETC 185.88 CLP-150.44

PLANETOCENTRIC CONIC

C3 17.913 VHL 4.232 DLA 50.23 RAL 6.06 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 5.455 DPA -29.45 RAP 36.01 ECC 1.2948
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.61 16 30 26 4272.56 -34.12 200.63 241.74 50.60 17 41 39 3672.6 -38.95 193.10
 133.39 0 59 44 2748.31 -34.11 80.30 241.73 50.59 1 45 32 2148.3 -38.94 72.78
 46.61 16 30 26 4272.56 -34.12 200.63 241.74 50.60 17 41 39 3672.6 -38.95 193.10
 133.39 0 59 44 2748.31 -34.11 80.30 241.73 50.59 1 45 32 2148.3 -38.94 72.78
 46.61 16 30 26 4272.56 -34.12 200.63 241.74 50.60 17 41 39 3672.6 -38.95 193.10
 133.39 0 59 44 2748.31 -34.11 80.30 241.73 50.59 1 45 32 2148.3 -38.94 72.78

DIFFERENTIAL CORRECTIONS

TDE 2.1754 TRA -.9046 TC3-3.5925 BAU .8748
 RDE .6357 RRA -.0821 RC3 -.6614 FAU .06698
 FDE 1.9213 FRA -.2579 FC3-3.2372 BSP 14965
 BDE 2.2664 BRA .9084 BC3 3.6528 FSP -1113

MID-COURSE EXECUTION ACCURACY

SGT 4646.0 SGR 1041.3 SG3 329.8
 RRT .9446 RRF .9730 RTF .9607
 SGB 4761.2 R23 .1852 R13 .9635
 SG1 4749.5 SG2 334.5 THA 12.01

ORBIT DETERMINATION ACCURACY

ST 3001.9 SR 862.3 SS 1228.8
 CRT .9912 CRS -.9999 CST -.9916
 LSA 3351.7 MSA 175.0 SSA 8.5
 EL1 3121.3 EL2 109.6 ALF 15.91

LAUNCH DATE FEB 5 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 460.080

RL 147.50 LAL .00 LOL 136.02 VL 27.338 GAL -.96 AZL 84.45 HCA 217.43 SMA 126.13 ECC .17021 INC 5.5488 V1 30.206
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.263 GAP 5.79 AZP 94.41 TAL 184.70 TAP 42.13 RCA 104.66 APO 147.60 V2 34.846
 RC 137.625 GL 40.56 GP -35.03 ZAL 100.42 ZAP 136.22 ETS 315.45 ZAE 125.42 ETE 208.63 ZAC 119.32 ETC 185.31 CLP-151.85

PLANETOCENTRIC CONIC

C3 16.518 VHL 4.064 DLA 49.28 RAL 9.99 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 5.427 DPA -26.08 RAP 35.86 ECC 1.2718
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.82 16 50 6 4244.44 -34.37 198.03 243.94 52.22 18 0 50 3644.4 -39.01 190.31
 132.18 1 11 29 2739.00 -34.36 79.60 243.93 52.21 1 57 8 2139.0 -39.00 71.88
 47.82 16 50 6 4244.44 -34.37 198.03 243.94 52.22 18 0 50 3644.4 -39.01 190.31
 132.18 1 11 29 2739.00 -34.36 79.60 243.93 52.21 1 57 8 2139.0 -39.00 71.88
 47.82 16 50 6 4244.44 -34.37 198.03 243.94 52.22 18 0 50 3644.4 -39.01 190.31
 132.18 1 11 29 2739.00 -34.36 79.60 243.93 52.21 1 57 8 2139.0 -39.00 71.88

DIFFERENTIAL CORRECTIONS

TDE 2.1427 TRA -.7705 TC3-4.0265 BAU .9001
 RDE .5734 RRA -.0478 RC3 -.6337 FAU .06709
 FDE 1.8355 FRA -.1219 FC3-3.5165 BSP 15284
 BDE 2.2181 BRA .7720 BC3 4.0761 FSP -1128

MID-COURSE EXECUTION ACCURACY

SGT 4754.9 SGR 964.0 SG3 333.9
 RRT .9380 RRF .9639 RTF .9583
 SGB 4851.7 R23 .1751 R13 .9607
 SG1 4840.6 SG2 328.4 THA 10.82

ORBIT DETERMINATION ACCURACY

ST 3063.3 SR 809.1 SS 1214.5
 CRT .9920 CRS -.9999 CST -.9911
 LSA 3388.8 MSA 172.3 SSA 9.6
 EL1 3166.8 EL2 98.5 ALF 14.70

LAUNCH DATE FEB 5 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 466.015

RL 147.50 LAL .00 LOL 136.02 VL 27.302 GAL -.70 AZL 84.86 HCA 220.60 SMA 125.90 ECC .17195 INC 5.1393 V1 30.206
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.246 GAP 6.06 AZP 93.91 TAL 183.36 TAP 43.96 RCA 104.26 APO 147.55 V2 34.855
 RC 139.923 GL 38.50 GP -32.32 ZAL 98.90 ZAP 138.99 ETS 315.81 ZAE 126.32 ETE 206.50 ZAC 120.93 ETC 184.78 CLP-153.24

PLANETOCENTRIC CONIC

C3 15.432 VHL 3.928 DLA 48.42 RAL 13.97 RAD 6567.6 VEL 11.697 PTH 2.06 VHP 5.437 DPA -22.99 RAP 36.02 ECC 1.2540
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.93 17 9 39 4220.05 -34.49 195.71 246.43 53.63 18 19 59 3620.0 -38.96 187.84
 131.07 1 23 39 2732.50 -34.48 79.06 246.42 53.62 2 9 12 2132.5 -38.95 71.20
 48.93 17 9 39 4220.05 -34.49 195.71 246.43 53.63 18 19 59 3620.0 -38.96 187.84
 131.07 1 23 39 2732.50 -34.48 79.06 246.42 53.62 2 9 12 2132.5 -38.95 71.20
 48.93 17 9 39 4220.05 -34.49 195.71 246.43 53.63 18 19 59 3620.0 -38.96 187.84
 131.07 1 23 39 2732.50 -34.48 79.06 246.42 53.62 2 9 12 2132.5 -38.95 71.20

DIFFERENTIAL CORRECTIONS

TDE 2.1141 TRA -.6337 TC3-4.4405 BAU .9244
 RDE .5225 RRA -.0208 RC3 -.5981 FAU .06633
 FDE 1.7378 FRA .0088 FC3-3.7208 BSP 15606
 BDE 2.1777 BRA .6340 BC3 4.4806 FSP -1131

MID-COURSE EXECUTION ACCURACY

SGT 4859.9 SGR 896.5 SG3 334.3
 RRT .9303 RRF .9526 RTF .9566
 SGB 4941.9 R23 .1603 R13 .9585
 SG1 4931.3 SG2 324.2 THA 9.78

ORBIT DETERMINATION ACCURACY

ST 3113.4 SR 762.4 SS 1191.3
 CRT .9931 CRS -.9997 CST -.9906
 LSA 3415.4 MSA 168.9 SSA 10.7
 EL1 3204.2 EL2 86.9 ALF 13.68

LAUNCH DATE FEB 5 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 471.937

RL 147.50 LAL .00 LOL 136.02 VL 27.267 GAL -.42 AZL 85.22 HCA 223.76 SMA 125.67 ECC .17383 INC 4.7792 V1 30.206
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.229 GAP 6.34 AZP 93.46 TAL 182.00 TAP 45.76 RCA 103.83 APO 147.52 V2 34.865
 RC 142.207 GL 36.50 GP -29.92 ZAL 97.15 ZAP 141.53 ETS 316.10 ZAE 127.00 ETE 204.56 ZAC 122.57 ETC 184.31 CLP-154.60

PLANETOCENTRIC CONIC

C3 14.586 VHL 3.819 DLA 47.62 RAL 18.00 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 5.476 DPA -20.16 RAP 36.43 ECC 1.2400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.97 17 29 18 4198.63 -34.50 193.63 249.18 54.87 18 39 17 3598.6 -38.82 185.65
 130.03 1 36 10 2728.67 -34.48 78.70 249.17 54.86 2 21 38 2128.7 -38.81 70.72
 49.97 17 29 18 4198.63 -34.50 193.63 249.18 54.87 18 39 17 3598.6 -38.82 185.65
 130.03 1 36 10 2728.67 -34.48 78.70 249.17 54.86 2 21 38 2128.7 -38.81 70.72
 49.97 17 29 18 4198.63 -34.50 193.63 249.18 54.87 18 39 17 3598.6 -38.82 185.65
 130.03 1 36 10 2728.67 -34.48 78.70 249.17 54.86 2 21 38 2128.7 -38.81 70.72

DIFFERENTIAL CORRECTIONS

TDE 2.0857 TRA -.4921 TC3-4.8340 BAU .9489
 RDE .4809 RRA .0013 RC3 -.5595 FAU .06500
 FDE 1.6311 FRA .1352 FC3-3.8582 BSP 15921
 BDE 2.1404 BRA .4921 BC3 4.8663 FSP -1120

MID-COURSE EXECUTION ACCURACY

SGT 4962.2 SGR 838.6 SG3 332.0
 RRT .9210 RRF .9391 RTF .9550
 SGB 5032.6 R23 .1433 R13 .9565
 SG1 5022.2 SG2 322.8 THA 8.88

ORBIT DETERMINATION ACCURACY

ST 3148.1 SR 721.6 SS 1159.4
 CRT .9943 CRS -.9992 CST -.9900
 LSA 3427.6 MSA 165.9 SSA 11.9
 EL1 3228.9 EL2 75.3 ALF 12.85

LAUNCH DATE FEB 5 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.231 GAL -.13 AZL 85.54 HCA 226.93 SMA 125.44 ECC .17587 INC 4.4582 V1 30.206
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.212 GAP 6.62 AZP 93.05 TAL 180.61 TAP 47.54 RCA 103.38 APO 147.50 V2 34.875
 RC 144.478 GL 34.55 GP -27.80 ZAL 95.19 ZAP 143.86 ETS 316.33 ZAE 127.52 ETE 202.79 ZAC 124.26 ETC 183.87 CLP-155.92

PLANETOCENTRIC CONIC
 C3 13.932 VHL 3.733 CLA 46.86 RAL 22.09 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 5.540 OPA -17.56 RAP 37.07 ECC 1.2293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.97 17 49 7 4179.75 -34.40 191.74 252.18 55.98 18 58 47 3579.7 -38.59 183.67
 129.03 1 48 59 2727.30 -34.39 78.49 252.17 55.96 2 34 26 2127.3 -38.58 70.42
 50.97 17 49 7 4179.75 -34.40 191.74 252.18 55.98 18 58 47 3579.7 -38.59 183.67
 129.03 1 48 59 2727.30 -34.39 78.49 252.17 55.96 2 34 26 2127.3 -38.58 70.42
 50.97 17 49 7 4179.75 -34.40 191.74 252.18 55.98 18 58 47 3579.7 -38.59 183.67
 129.03 1 48 59 2727.30 -34.39 78.49 252.17 55.96 2 34 26 2127.3 -38.58 70.42

DIFFERENTIAL CORRECTIONS
 TOE 2.0473 TRA -3.543 TC3-5.2022 BAU .9738 SGT 5058.7 SGR 786.2 SG3 326.6 ST 3153.8 SR 682.0 SS 1110.3
 RDE .4442 RRA .0157 RC3 -.5221 FAU .06343 RRT .9123 RRF .9228 RTF .9554 CRT .9956 CRS -.9983 CST -.9895
 FDE 1.5064 FRA .2376 FC3-3.9414 BSP 16457 SGB 5119.4 R23 .1165 R13 .9565 LSA 3408.6 MSA 159.4 SSA 13.1
 BDE 2.0949 BRA .3547 BC3 5.2283 FSP -1136 SGI 5109.5 SG2 318.7 THA 8.10 EL1 3226.1 EL2 62.2 ALF 12.16

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.195 GAL .17 AZL 85.83 HCA 230.10 SMA 125.21 ECC .17806 INC 4.1687 V1 30.206
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.196 GAP 6.90 AZP 92.68 TAL 179.21 TAP 49.31 RCA 102.91 APO 147.50 V2 34.885
 RC 146.734 GL 32.63 GP -25.92 ZAL 93.04 ZAP 146.01 ETS 316.48 ZAE 127.91 ETE 201.20 ZAC 125.98 ETC 183.48 CLP-157.20

PLANETOCENTRIC CONIC
 C3 13.441 VHL 3.666 CLA 46.11 RAL 26.24 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 5.622 OPA -15.16 RAP 37.89 ECC 1.2212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.95 18 9 14 4162.89 -34.21 189.99 255.41 56.97 19 18 37 3562.9 -38.28 181.86
 128.05 2 1 59 2728.48 -34.20 78.45 255.40 56.96 2 47 28 2128.5 -38.27 70.32
 51.95 18 9 14 4162.89 -34.21 189.99 255.41 56.97 19 18 37 3562.9 -38.28 181.86
 128.05 2 1 59 2728.48 -34.20 78.45 255.40 56.96 2 47 28 2128.5 -38.27 70.32
 51.95 18 9 14 4162.89 -34.21 189.99 255.41 56.97 19 18 37 3562.9 -38.28 181.86
 128.05 2 1 59 2728.48 -34.20 78.45 255.40 56.96 2 47 28 2128.5 -38.27 70.32

DIFFERENTIAL CORRECTIONS
 TOE 2.0331 TRA -.1890 TC3-5.5022 BAU .9924 SGT 5153.0 SGR 750.5 SG3 321.3 ST 3182.1 SR 661.5 SS 1087.2
 RDE .4230 RRA .0351 RC3 -.4726 FAU .06064 RRT .8958 RRF .9055 RTF .9529 CRT .9969 CRS -.9969 CST -.9885
 FDE 1.4222 FRA .3683 FC3-3.9059 BSP 16469 SGB 5207.4 R23 .1086 R13 .9539 LSA 3423.4 MSA 160.5 SSA 14.2
 BDE 2.0766 BRA .1923 BC3 5.5225 FSP -1074 SGI 5196.8 SG2 330.7 THA 7.46 EL1 3249.8 EL2 51.3 ALF 11.71

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.159 GAL .49 AZL 86.10 HCA 233.28 SMA 124.98 ECC .18042 INC 3.9047 V1 30.206
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.179 GAP 7.18 AZP 92.34 TAL 177.79 TAP 51.06 RCA 102.43 APO 147.52 V2 34.897
 RC 148.977 GL 30.74 GP -24.25 ZAL 90.71 ZAP 147.99 ETS 316.54 ZAE 128.20 ETE 199.78 ZAC 127.76 ETC 183.12 CLP-158.44

PLANETOCENTRIC CONIC
 C3 13.092 VHL 3.618 CLA 45.36 RAL 30.45 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 5.721 OPA -12.93 RAP 38.87 ECC 1.2155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.96 18 29 43 4147.68 -33.93 188.35 258.83 57.87 19 38 51 3547.7 -37.89 180.18
 127.04 2 15 4 2732.29 -33.92 78.58 258.83 57.86 3 0 36 2132.3 -37.88 70.41
 52.96 18 29 43 4147.68 -33.93 188.35 258.83 57.87 19 38 51 3547.7 -37.89 180.18
 127.04 2 15 4 2732.29 -33.92 78.58 258.83 57.86 3 0 36 2132.3 -37.88 70.41
 52.96 18 29 43 4147.68 -33.93 188.35 258.83 57.87 19 38 51 3547.7 -37.89 180.18
 127.04 2 15 4 2732.29 -33.92 78.58 258.83 57.86 3 0 36 2132.3 -37.88 70.41

DIFFERENTIAL CORRECTIONS
 TOE 1.9980 TRA -.0239 TC3-5.7626 BAU 1.0114 SGT 5234.7 SGR 715.7 SG3 313.4 ST 3166.2 SR 636.2 SS 1038.8
 RDE .4012 RRA .0493 RC3 -.4290 FAU .05796 RRT .8804 RRF .8855 RTF .9519 CRT .9980 CRS -.9945 CST -.9874
 FDE 1.3104 FRA .4771 FC3-3.8326 BSP 16753 SGB 5283.4 R23 .0926 R13 .9527 LSA 3388.7 MSA 158.9 SSA 15.4
 BDE 2.0378 BRA .0547 BC3 5.7785 FSP -1047 SGI 5272.7 SG2 337.0 THA 6.89 EL1 3229.3 EL2 39.0 ALF 11.34

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 172.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 27.122 GAL .82 AZL 86.34 HCA 236.45 SMA 124.74 ECC .18297 INC 3.6614 V1 30.206
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.164 GAP 7.48 AZP 92.03 TAL 176.35 TAP 52.80 RCA 101.92 APO 147.57 V2 34.908
 RC 151.204 GL 28.86 GP -22.77 ZAL 88.24 ZAP 149.83 ETS 316.50 ZAE 128.42 ETE 198.51 ZAC 129.58 ETC 182.78 CLP-159.65

PLANETOCENTRIC CONIC
 C3 12.873 VHL 3.588 CLA 44.58 RAL 34.69 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 5.834 OPA -10.86 RAP 40.00 ECC 1.2119
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.01 18 50 37 4133.67 -33.54 186.77 262.44 58.71 19 59 31 3533.7 -37.40 178.58
 125.99 2 28 1 2739.03 -33.53 78.91 262.43 58.69 3 13 40 2139.0 -37.39 70.72
 54.01 18 50 37 4133.67 -33.54 186.77 262.44 58.71 19 59 31 3533.7 -37.40 178.58
 125.99 2 28 1 2739.03 -33.53 78.91 262.43 58.69 3 13 40 2139.0 -37.39 70.72
 54.01 18 50 37 4133.67 -33.54 186.77 262.44 58.71 19 59 31 3533.7 -37.40 178.58
 125.99 2 28 1 2739.03 -33.53 78.91 262.43 58.69 3 13 40 2139.0 -37.39 70.72

DIFFERENTIAL CORRECTIONS
 TOE 1.9558 TRA .1453 TC3-5.9822 BAU 1.0317 SGT 5318.7 SGR 687.8 SG3 305.0 ST 3127.4 SR 614.5 SS 985.8
 RDE .3839 RRA .0610 RC3 -.3906 FAU .05537 RRT .8645 RRF .8645 RTF .9519 CRT .9990 CRS -.9909 CST -.9860
 FDE 1.1996 FRA .5734 FC3-3.7235 BSP 17067 SGB 5362.9 R23 .0759 R13 .9524 LSA 3332.5 MSA 157.2 SSA 16.6
 BDE 1.9931 BRA .1576 BC3 5.9949 FSP -1023 SGI 5351.9 SG2 343.6 THA 6.41 EL1 3187.1 EL2 27.1 ALF 11.11

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 5 1969

FLIGHT TIME 174.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 501.320

RL 147.50 LAL .00 LOL 136.02 VL 27.086 GAL 1.16 AZL 86.56 HCA 239.63 SMA 124.51 ECC .18571 INC 3.4354 V1 30.206
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.148 GAP 7.78 AZP 91.74 TAL 174.90 TAP 54.53 RCA 101.39 APO 147.63 V2 34.920
 RC 153.416 GL 27.00 GP -21.44 ZAL 85.62 ZAP 151.54 ETS 316.35 ZAE 128.58 ETE 197.37 ZAC 131.44 ETC 182.46 CLP-160.82

PLANETOCENTRIC CONIC

C3 12.776 VHL 3.574 OLA 43.77 RAL 38.96 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 5.960 DPA -8.93 RAP 41.25 ECC 1.2103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.12 19 11 58 4120.60 -33.05 185.23 266.20 59.49 20 20 39 3520.6 -36.81 177.04
 124.88 2 40 42 2748.85 -33.03 79.45 266.19 59.47 3 26 30 2148.8 -36.80 71.26
 55.12 19 11 58 4120.60 -33.05 185.23 266.20 59.49 20 20 39 3520.6 -36.81 177.04
 124.88 2 40 42 2748.85 -33.03 79.45 266.19 59.47 3 26 30 2148.8 -36.80 71.26
 55.12 19 11 58 4120.60 -33.05 185.23 266.20 59.49 20 20 39 3520.6 -36.81 177.04
 124.88 2 40 42 2748.85 -33.03 79.45 266.19 59.47 3 26 30 2148.8 -36.80 71.26

DIFFERENTIAL CORRECTIONS

TDE 1.9114 TRA .3271 TC3-6.1272 BAU 1.0483
 ROE .3715 RRA .0726 RC3 -.3511 FAU .05241
 FDE 1.0966 FRA .6669 FC3-3.5511 BSP 17259
 BDE 1.9472 BRA .3350 BC3 6.1373 FSP -986

MID-COURSE EXECUTION ACCURACY

SGT 5394.5 SGR 666.0 SG3 295.9
 RRT .8464 RRF .8429 RTF .9517
 SGB 5435.5 R23 .0638 R13 .9522
 SG1 5424.0 SG2 352.7 THA 5.99

ORBIT DETERMINATION ACCURACY

ST 3074.5 SR 597.5 SS 934.4
 CRT .9995 CRS -.9858 CST -.9845
 LSA 3264.6 MSA 157.0 SSA 17.7
 EL1 3132.0 EL2 18.6 ALF 10.99

LAUNCH DATE FEB 5 1969

FLIGHT TIME 176.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 507.145

RL 147.50 LAL .00 LOL 136.02 VL 27.049 GAL 1.52 AZL 86.78 HCA 242.81 SMA 124.28 ECC .18866 INC 3.2234 V1 30.206
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.133 GAP 8.08 AZP 91.47 TAL 173.44 TAP 56.25 RCA 100.83 APO 147.73 V2 34.932
 RC 155.612 GL 25.15 GP -20.25 ZAL 82.91 ZAP 153.13 ETS 316.09 ZAE 128.70 ETE 196.36 ZAC 133.35 ETC 182.14 CLP-161.96

PLANETOCENTRIC CONIC

C3 12.797 VHL 3.577 OLA 42.90 RAL 43.21 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 6.098 DPA -7.12 RAP 42.60 ECC 1.2106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.31 19 33 46 4108.07 -32.44 183.70 270.07 60.23 20 42 14 3508.1 -36.13 175.51
 123.69 2 52 52 2762.09 -32.43 80.22 270.06 60.21 3 38 54 2162.1 -36.12 72.04
 56.31 19 33 46 4108.07 -32.44 183.70 270.07 60.23 20 42 14 3508.1 -36.13 175.51
 123.69 2 52 52 2762.09 -32.43 80.22 270.06 60.21 3 38 54 2162.1 -36.12 72.04
 56.31 19 33 46 4108.07 -32.44 183.70 270.07 60.23 20 42 14 3508.1 -36.13 175.51
 123.69 2 52 52 2762.09 -32.43 80.22 270.06 60.21 3 38 54 2162.1 -36.12 72.04

DIFFERENTIAL CORRECTIONS

TDE 1.8531 TRA .5138 TC3-6.2274 BAU 1.0668
 ROE .3609 RRA .0831 RC3 -.3185 FAU .04974
 FDE .9894 FRA .7499 FC3-3.3647 BSP 17554
 BDE 1.8879 BRA .5205 BC3 6.2355 FSP -958

MID-COURSE EXECUTION ACCURACY

SGT 5470.1 SGR 647.4 SG3 286.5
 RRT .8288 RRF .8210 RTF .9522
 SGB 5508.3 R23 .0507 R13 .9526
 SG1 5496.5 SG2 360.5 THA 5.63

ORBIT DETERMINATION ACCURACY

ST 2990.0 SR 580.7 SS 875.0
 CRT .9993 CRS -.9782 CST -.9824
 LSA 3165.1 MSA 158.1 SSA 18.7
 EL1 3045.8 EL2 21.7 ALF 10.98

LAUNCH DATE FEB 5 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 512.950

RL 147.50 LAL .00 LOL 136.02 VL 27.012 GAL 1.90 AZL 86.98 HCA 246.00 SMA 124.05 ECC .19184 INC 3.0230 V1 30.206
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.118 GAP 8.40 AZP 91.23 TAL 171.96 TAP 57.96 RCA 100.25 APO 147.84 V2 34.945
 RC 157.792 GL 23.32 GP -19.18 ZAL 80.11 ZAP 154.62 ETS 315.70 ZAE 128.79 ETE 195.46 ZAC 135.29 ETC 181.83 CLP-163.07

PLANETOCENTRIC CONIC

C3 12.938 VHL 3.597 OLA 41.98 RAL 47.44 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 6.247 DPA -5.42 RAP 44.06 ECC 1.2129
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.61 19 56 0 4095.78 -31.73 182.14 274.04 60.93 21 4 16 3495.8 -35.34 173.98
 122.39 3 4 20 2779.07 -31.72 81.24 274.03 60.92 3 50 39 2179.1 -35.32 73.09
 57.61 19 56 0 4095.78 -31.73 182.14 274.04 60.93 21 4 16 3495.8 -35.34 173.98
 122.39 3 4 20 2779.07 -31.72 81.24 274.03 60.92 3 50 39 2179.1 -35.32 73.09
 57.61 19 56 0 4095.78 -31.73 182.14 274.04 60.93 21 4 16 3495.8 -35.34 173.98
 122.39 3 4 20 2779.07 -31.72 81.24 274.03 60.92 3 50 39 2179.1 -35.32 73.09

DIFFERENTIAL CORRECTIONS

TDE 1.7867 TRA .7101 TC3-6.2588 BAU 1.0837
 ROE .3534 RRA .0935 RC3 -.2875 FAU .04697
 FDE .8870 FRA .8274 FC3-3.1431 BSP 17816
 BDE 1.8213 BRA .7163 BC3 6.2654 FSP -928

MID-COURSE EXECUTION ACCURACY

SGT 5539.6 SGR 632.3 SG3 276.6
 RRT .8103 RRF .7993 RTF .9528
 SGB 5575.6 R23 .0407 R13 .9530
 SG1 5563.3 SG2 368.9 THA 5.31

ORBIT DETERMINATION ACCURACY

ST 2885.6 SR 566.1 SS 815.7
 CRT .9980 CRS -.9675 CST -.9799
 LSA 3047.3 MSA 161.2 SSA 19.5
 EL1 2940.4 EL2 35.4 ALF 11.08

LAUNCH DATE FEB 5 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 518.734

RL 147.50 LAL .00 LOL 136.02 VL 26.975 GAL 2.29 AZL 87.17 HCA 249.18 SMA 123.82 ECC .19525 INC 2.8322 V1 30.206
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.103 GAP 8.72 AZP 91.01 TAL 170.48 TAP 59.67 RCA 99.64 APO 147.99 V2 34.957
 RC 159.953 GL 21.50 GP -18.22 ZAL 77.25 ZAP 156.02 ETS 315.19 ZAE 128.85 ETE 194.66 ZAC 137.27 ETC 181.52 CLP-164.15

PLANETOCENTRIC CONIC

C3 13.200 VHL 3.633 OLA 41.00 RAL 51.60 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 6.407 DPA -3.82 RAP 45.60 ECC 1.2172
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.02 20 18 39 4083.41 -30.92 180.54 278.07 61.61 21 26 43 3483.4 -34.44 172.42
 120.98 3 14 53 2800.09 -30.91 82.54 278.06 61.60 4 1 33 2200.1 -34.43 74.42
 59.02 20 18 39 4083.41 -30.92 180.54 278.07 61.61 21 26 43 3483.4 -34.44 172.42
 120.98 3 14 53 2800.09 -30.91 82.54 278.06 61.60 4 1 33 2200.1 -34.43 74.42
 59.02 20 18 39 4083.41 -30.92 180.54 278.07 61.61 21 26 43 3483.4 -34.44 172.42
 120.98 3 14 53 2800.09 -30.91 82.54 278.06 61.60 4 1 33 2200.1 -34.43 74.42

DIFFERENTIAL CORRECTIONS

TDE 1.7116 TRA .9174 TC3-6.2237 BAU 1.0992
 ROE .3480 RRA .1043 RC3 -.2594 FAU .04422
 FDE .7881 FRA .9005 FC3-2.9004 BSP 18051
 BDE 1.7466 BRA .9233 BC3 6.2291 FSP -896

MID-COURSE EXECUTION ACCURACY

SGT 5604.6 SGR 619.8 SG3 266.7
 RRT .7920 RRF .7784 RTF .9534
 SGB 5638.8 R23 .0326 R13 .9536
 SG1 5626.2 SG2 377.0 THA 5.03

ORBIT DETERMINATION ACCURACY

ST 2763.1 SR 552.7 SS 756.4
 CRT .9951 CRS -.9524 CST -.9767
 LSA 2912.7 MSA 167.0 SSA 20.1
 EL1 2817.3 EL2 53.7 ALF 11.26

LAUNCH DATE FEB 5 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.938 GAL 2.70 AZL 87.35 HCA 252.37 SMA 123.59 ECC .19893 INC 2.6492 V1 30.206
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.088 GAP 9.06 AZP 90.80 TAL 168.99 TAP 61.37 RCA 99.00 APO 148.17 V2 34.970
 RC 162.097 GL 19.72 GP -17.36 ZAL 74.35 ZAP 157.34 ETS 314.53 ZAE 128.90 ETE 193.94 ZAC 139.28 ETC 181.20 CLP-165.20

PLANETOCENTRIC CONIC
 C3 13.590 VHL 3.686 OLA 39.96 RAL 55.68 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 6.578 DPA -2.31 RAP 47.22 ECC 1.2237
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.54 20 41 45 4070.57 -30.00 178.88 282.14 62.26 21 49 36 3470.6 -33.45 170.81
 119.46 3 24 18 2825.58 -29.99 84.15 282.14 62.25 4 11 24 2225.6 -33.44 76.08
 60.54 20 41 45 4070.57 -30.00 178.88 282.14 62.26 21 49 36 3470.6 -33.45 170.81
 119.46 3 24 18 2825.58 -29.99 84.15 282.14 62.25 4 11 24 2225.6 -33.44 76.08
 60.54 20 41 45 4070.57 -30.00 178.88 282.14 62.26 21 49 36 3470.6 -33.45 170.81
 119.46 3 24 18 2825.58 -29.99 84.15 282.14 62.25 4 11 24 2225.6 -33.44 76.08

DIFFERENTIAL CORRECTIONS
 TOE 1.6269 TRA 1.1346 TC3-6.1278 BAU 1.1141 SGT 5665.5 SGR 609.4 SG3 256.7 ORBIT DETERMINATION ACCURACY
 ROE .3446 RRA .1153 RC3 -.2345 FAU .04158 RRT .7743 RRF .7586 RTF .9542 ST 2624.6 SR 540.2 SS 698.6
 FDE .6931 FRA .9684 FC3-2.6486 BSP 18301 SGB 5698.2 R23 .0259 R13 .9544 CRT .9899 CRS -.9316 CST -.9728
 BOE 1.6630 BRA 1.1404 BC3 6.1323 FSP -866 SG1 5685.2 SG2 384.3 THA 4.78 LSA 2763.5 MSA 176.0 SSA 20.3
 EL1 2678.5 EL2 75.2 ALF 11.52

LAUNCH DATE FEB 5 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.902 GAL 3.13 AZL 87.53 HCA 255.56 SMA 123.36 ECC .20290 INC 2.4724 V1 30.206
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.074 GAP 9.41 AZP 90.62 TAL 167.50 TAP 63.06 RCA 98.33 APO 148.39 V2 34.983
 RC 164.221 GL 17.96 GP -16.58 ZAL 71.45 ZAP 158.58 ETS 313.72 ZAE 128.93 ETE 193.30 ZAC 141.32 ETC 180.86 CLP-166.23

PLANETOCENTRIC CONIC
 C3 14.115 VHL 3.757 OLA 38.87 RAL 59.64 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 6.760 DPA -.89 RAP 48.92 ECC 1.2323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.18 21 5 17 4056.87 -28.98 177.13 286.23 62.89 22 12 54 3456.9 -32.37 169.11
 117.82 3 32 22 2855.93 -28.97 86.09 286.23 62.87 4 19 58 2255.9 -32.36 78.07
 62.18 21 5 17 4056.87 -28.98 177.13 286.23 62.89 22 12 54 3456.9 -32.37 169.11
 117.82 3 32 22 2855.93 -28.97 86.09 286.23 62.87 4 19 58 2255.9 -32.36 78.07
 62.18 21 5 17 4056.87 -28.98 177.13 286.23 62.89 22 12 54 3456.9 -32.37 169.11
 117.82 3 32 22 2855.93 -28.97 86.09 286.23 62.87 4 19 58 2255.9 -32.36 78.07

DIFFERENTIAL CORRECTIONS
 TOE 1.5368 TRA 1.3664 TC3-5.9625 BAU 1.1259 SGT 5720.9 SGR 600.8 SG3 246.8 ORBIT DETERMINATION ACCURACY
 ROE .3431 RRA .1273 RC3 -.2107 FAU .03885 RRT .7572 RRF .7404 RTF .9548 ST 2481.0 SR 528.6 SS 645.7
 FDE .6044 FRA 1.0346 FC3-2.3830 BSP 18447 SGB 5752.3 R23 .0214 R13 .9550 CRT .9814 CRS -.9036 CST -.9682
 BOE 1.5746 BRA 1.3724 BC3 5.9662 FSP -832 SG1 5739.0 SG2 391.2 THA 4.57 LSA 2610.6 MSA 188.6 SSA 20.3
 EL1 2534.7 EL2 99.4 ALF 11.83

LAUNCH DATE FEB 5 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.865 GAL 3.59 AZL 87.70 HCA 258.76 SMA 123.14 ECC .20717 INC 2.3005 V1 30.206
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.060 GAP 9.77 AZP 90.45 TAL 166.00 TAP 64.76 RCA 97.63 APO 148.63 V2 34.996
 RC 166.326 GL 16.25 GP -15.87 ZAL 68.56 ZAP 159.74 ETS 312.74 ZAE 128.96 ETE 192.72 ZAC 143.39 ETC 180.49 CLP-167.24

PLANETOCENTRIC CONIC
 C3 14.789 VHL 3.846 OLA 37.73 RAL 63.46 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 6.955 DPA .45 RAP 50.68 ECC 1.2434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.96 21 29 17 4041.97 -27.89 175.26 290.32 63.49 22 36 39 3442.0 -31.20 167.31
 116.04 3 38 54 2891.48 -27.87 88.39 290.32 63.48 4 27 5 2291.5 -31.19 80.44
 63.96 21 29 17 4041.97 -27.89 175.26 290.32 63.49 22 36 39 3442.0 -31.20 167.31
 116.04 3 38 54 2891.48 -27.87 88.39 290.32 63.48 4 27 5 2291.5 -31.19 80.44
 63.96 21 29 17 4041.97 -27.89 175.26 290.32 63.49 22 36 39 3442.0 -31.20 167.31
 116.04 3 38 54 2891.48 -27.87 88.39 290.32 63.48 4 27 5 2291.5 -31.19 80.44

DIFFERENTIAL CORRECTIONS
 TOE 1.4350 TRA 1.6068 TC3-5.7538 BAU 1.1382 SGT 5772.0 SGR 592.7 SG3 237.1 ORBIT DETERMINATION ACCURACY
 ROE .3427 RRA .1395 RC3 -.1906 FAU .03634 RRT .7412 RRF .7231 RTF .9556 ST 2326.6 SR 516.7 SS 595.2
 FDE .5179 FRA 1.0954 FC3-2.1272 BSP 18661 SGB 5802.4 R23 .0171 R13 .9557 CRT .9682 CRS -.8657 CST -.9627
 BOE 1.4753 BRA 1.6129 BC3 5.7570 FSP -803 SG1 5788.8 SG2 396.7 THA 4.37 LSA 2447.8 MSA 205.2 SSA 19.9
 EL1 2380.0 EL2 126.4 ALF 12.17

LAUNCH DATE FEB 5 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.828 GAL 4.07 AZL 87.87 HCA 261.95 SMA 122.91 ECC .21177 INC 2.1322 V1 30.206
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.046 GAP 10.15 AZP 90.30 TAL 164.50 TAP 66.46 RCA 96.88 APO 148.94 V2 35.010
 RC 168.410 GL 14.59 GP -15.23 ZAL 65.70 ZAP 160.84 ETS 311.57 ZAE 128.97 ETE 192.20 ZAC 145.48 ETC 180.09 CLP-168.24

PLANETOCENTRIC CONIC
 C3 15.623 VHL 3.953 OLA 36.55 RAL 67.14 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 7.161 DPA 1.73 RAP 52.50 ECC 1.2571
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.86 21 53 48 4025.28 -26.72 173.26 294.40 64.07 23 0 54 3425.3 -29.97 165.37
 114.14 3 43 40 2932.80 -26.70 91.10 294.39 64.06 4 32 33 2332.8 -29.96 83.21
 65.86 21 53 48 4025.28 -26.72 173.26 294.40 64.07 23 0 54 3425.3 -29.97 165.37
 114.14 3 43 40 2932.80 -26.70 91.10 294.39 64.06 4 32 33 2332.8 -29.96 83.21
 65.86 21 53 48 4025.28 -26.72 173.26 294.40 64.07 23 0 54 3425.3 -29.97 165.37
 114.14 3 43 40 2932.80 -26.70 91.10 294.39 64.06 4 32 33 2332.8 -29.96 83.21

DIFFERENTIAL CORRECTIONS
 TOE 1.3264 TRA 1.8601 TC3-5.4983 BAU 1.1490 SGT 5818.6 SGR 585.1 SG3 227.5 ORBIT DETERMINATION ACCURACY
 ROE .3436 RRA .1525 RC3 -.1721 FAU .03387 RRT .7263 RRF .7074 RTF .9563 ST 2174.4 SR 504.9 SS 550.9
 FDE .4367 FRA 1.1534 FC3-1.8771 BSP 18854 SGB 5847.9 R23 .0138 R13 .9564 CRT .9485 CRS -.8166 CST -.9566
 BOE 1.3702 BRA 1.8663 BC3 5.5010 FSP -774 SG1 5834.1 SG2 401.1 THA 4.20 LSA 2288.1 MSA 225.6 SSA 19.4
 EL1 2226.8 EL2 156.1 ALF 12.48

LAUNCH DATE FEB 5 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 547.249

RL 147.50 LAL .00 LOL 136.02 VL 26.792 GAL 4.57 AZL 88.03 MCA 265.15 SMA 122.69 ECC .21674 INC 1.9665 V1 30.206
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.032 GAP 10.55 AZP 90.17 TAL 163.01 TAP 68.16 RCA 96.10 APO 149.28 V2 35.023
 RC 170.474 GL 12.98 GP -14.64 ZAL 62.90 ZAP 161.88 ETS 310.21 ZAE 128.98 ETE 191.74 ZAC 147.59 ETC 179.64 CLP-169.22

PLANETOCENTRIC CONIC

C3 16.635 VHL 4.079 CLA 35.35 RAL 70.64 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 7.382 DPA 2.93 RAP 54.38 ECC 1.2738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.89 22 18 59 4006.24 -25.48 171.08 298.45 64.63 23 25 45 3406.2 -28.68 163.26
 112.11 3 46 29 2980.43 -25.47 94.25 298.44 64.61 4 36 9 2380.4 -28.67 86.42
 67.89 22 18 59 4006.24 -25.48 171.08 298.45 64.63 23 25 45 3406.2 -28.68 163.26
 112.11 3 46 29 2980.43 -25.47 94.25 298.44 64.61 4 36 9 2380.4 -28.67 86.42
 67.89 22 18 59 4006.24 -25.48 171.08 298.45 64.63 23 25 45 3406.2 -28.68 163.26
 112.11 3 46 29 2980.43 -25.47 94.25 298.44 64.61 4 36 9 2380.4 -28.67 86.42

DIFFERENTIAL CORRECTIONS

TOE 1.2112 TRA 2.1263 TC3-5.2050 BAU 1.1581
 RDE .3457 RRA .1662 RC3 -.1552 FAU .03148
 FDE .3606 FRA 1.2086 FC3-1.6384 BSP 19038
 BOE 1.2596 BRA 2.1328 BC3 5.2073 FSP -746

MID-COURSE EXECUTION ACCURACY

SGT 5859.6 SGR 577.7 SG3 218.2
 RRT .7125 RRF .6930 RTF .9570
 SGB 5888.0 R23 .0112 R13 .9571
 SG1 5874.1 SG2 404.4 THA 4.04

ORBIT DETERMINATION ACCURACY

ST 2029.4 SR 493.2 SS 513.5
 CRT .9203 CRS -.7550 CST -.9506
 LSA 2136.1 MSA 249.4 SSA 18.7
 EL1 2080.0 EL2 188.2 ALF 12.71

LAUNCH DATE FEB 5 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 552.849

RL 147.50 LAL .00 LOL 136.02 VL 26.756 GAL 5.10 AZL 88.20 MCA 268.36 SMA 122.47 ECC .22211 INC 1.8021 V1 30.206
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.018 GAP 10.96 AZP 90.05 TAL 161.52 TAP 69.87 RCA 95.27 APO 149.67 V2 35.036
 RC 172.518 GL 11.44 GP -14.11 ZAL 60.17 ZAP 162.87 ETS 308.63 ZAE 128.98 ETE 191.32 ZAC 149.72 ETC 179.13 CLP-170.18

PLANETOCENTRIC CONIC

C3 17.847 VHL 4.225 DLA 34.14 RAL 73.98 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 7.616 DPA 4.07 RAP 56.30 ECC 1.2937
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.08 22 45 2 3983.86 -24.21 168.66 302.47 65.16 23 51 26 3383.9 -27.35 160.90
 109.92 3 47 1 3035.30 -24.19 97.90 302.46 65.14 4 37 36 2435.3 -27.33 90.15
 70.08 22 45 2 3983.86 -24.21 168.66 302.47 65.16 23 51 26 3383.9 -27.35 160.90
 109.92 3 47 1 3035.30 -24.19 97.90 302.46 65.14 4 37 36 2435.3 -27.33 90.15
 110.00 4 0 42 2993.58 -25.35 95.22 303.04 66.26 4 50 36 2393.6 -28.33 87.31
 110.00 3 34 27 3073.57 -23.06 100.30 301.87 64.04 4 25 41 2473.6 -26.35 92.69

DIFFERENTIAL CORRECTIONS

TOE 1.0936 TRA 2.4103 TC3-4.8759 BAU 1.1638
 RDE .3491 RRA .1810 RC3 -.1390 FAU .02909
 FDE .2915 FRA 1.2641 FC3-1.4112 BSP 19122
 BOE 1.1480 BRA 2.4171 BC3 4.8779 FSP -714

MID-COURSE EXECUTION ACCURACY

SGT 5896.8 SGR 570.9 SG3 209.3
 RRT .7003 RRF .6808 RTF .9576
 SGB 5924.3 R23 .0097 R13 .9577
 SG1 5910.4 SG2 406.6 THA 3.90

ORBIT DETERMINATION ACCURACY

ST 1902.5 SR 481.8 SS 485.2
 CRT .8817 CRS -.6829 CST -.9460
 LSA 2002.7 MSA 275.5 SSA 18.0
 EL1 1949.9 EL2 221.8 ALF 12.76

LAUNCH DATE FEB 5 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 558.404

RL 147.50 LAL .00 LOL 136.02 VL 26.720 GAL 5.66 AZL 88.36 MCA 271.56 SMA 122.25 ECC .22792 INC 1.6382 V1 30.206
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.005 GAP 11.41 AZP 89.96 TAL 160.03 TAP 71.59 RCA 94.39 APO 150.12 V2 35.050
 RC 174.540 GL 9.97 GP -13.63 ZAL 57.52 ZAP 163.79 ETS 306.80 ZAE 128.98 ETE 190.94 ZAC 151.87 ETC 178.54 CLP-171.14

PLANETOCENTRIC CONIC

C3 19.283 VHL 4.391 DLA 32.92 RAL 77.13 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 7.867 DPA 5.14 RAP 58.28 ECC 1.3173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.46 23 12 21 3956.78 -22.89 165.91 306.45 65.67 24 18 18 3356.8 -25.98 158.22
 107.54 3 44 52 3098.69 -22.88 102.16 306.44 65.65 4 36 31 2498.7 -25.97 94.47
 72.46 23 12 21 3956.78 -22.89 165.91 306.45 65.67 24 18 18 3356.8 -25.98 158.22
 107.54 3 44 52 3098.69 -22.88 102.16 306.44 65.65 4 36 31 2498.7 -25.97 94.47
 110.00 5 10 11 2836.31 -29.23 84.64 309.22 71.43 5 57 28 2236.3 -31.48 76.16
 110.00 2 50 8 3267.16 -16.83 111.86 303.13 59.80 3 44 35 2667.2 -20.72 104.89

DIFFERENTIAL CORRECTIONS

TOE .9667 TRA 2.7052 TC3-4.5366 BAU 1.1699
 RDE .3530 RRA .1962 RC3 -.1250 FAU .02690
 FDE .2249 FRA 1.3157 FC3-1.2078 BSP 19296
 BOE 1.0291 BRA 2.7123 BC3 4.5383 FSP -689

MID-COURSE EXECUTION ACCURACY

SGT 5928.6 SGR 563.2 SG3 200.7
 RRT .6890 RRF .6691 RTF .9584
 SGB 5955.3 R23 .0077 R13 .9585
 SG1 5941.3 SG2 407.3 THA 3.76

ORBIT DETERMINATION ACCURACY

ST 1787.9 SR 469.6 SS 462.8
 CRT .8298 CRS -.5986 CST -.9430
 LSA 1881.4 MSA 302.8 SSA 17.2
 EL1 1830.8 EL2 255.9 ALF 12.55

LAUNCH DATE FEB 5 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 563.907

RL 147.50 LAL .00 LOL 136.02 VL 26.684 GAL 6.25 AZL 88.53 MCA 274.77 SMA 122.04 ECC .23422 INC 1.4737 V1 30.206
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.992 GAP 11.87 AZP 89.88 TAL 158.56 TAP 73.33 RCA 93.45 APO 150.62 V2 35.063
 RC 176.542 GL 8.57 GP -13.18 ZAL 54.97 ZAP 164.66 ETS 304.70 ZAE 128.97 ETE 190.59 ZAC 154.02 ETC 177.86 CLP-172.09

PLANETOCENTRIC CONIC

C3 20.973 VHL 4.580 DLA 31.72 RAL 80.10 RAD 6567.9 VEL 11.931 PTH 2.12 VHP 8.135 DPA 6.15 RAP 60.29 ECC 1.3452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.08 23 41 35 3922.76 -21.56 162.66 310.39 66.15 24 46 57 3322.8 -24.59 155.03
 104.92 3 39 22 3172.74 -21.54 107.17 310.38 66.14 4 32 15 2572.7 -24.58 99.54
 75.08 23 41 35 3922.76 -21.56 162.66 310.39 66.15 24 46 57 3322.8 -24.59 155.03
 104.92 3 39 22 3172.74 -21.54 107.17 310.38 66.14 4 32 15 2572.7 -24.58 99.54
 110.00 5 49 43 2768.45 -30.60 79.83 314.04 73.97 6 35 52 2168.4 -32.49 71.13
 110.00 2 34 20 3375.06 -13.04 117.92 305.68 58.12 3 30 35 2775.1 -17.16 111.23

DIFFERENTIAL CORRECTIONS

TOE .8358 TRA 3.0171 TC3-4.1833 BAU 1.1734
 RDE .3578 RRA .2121 RC3 -.1118 FAU .02476
 FDE .1635 FRA 1.3670 FC3-1.0220 BSP 19434
 BOE .9092 BRA 3.0246 BC3 4.1848 FSP -663

MID-COURSE EXECUTION ACCURACY

SGT 5955.4 SGR 555.2 SG3 192.4
 RRT .6789 RRF .6588 RTF .9592
 SGB 5981.2 R23 .0062 R13 .9592
 SG1 5967.3 SG2 406.8 THA 3.64

ORBIT DETERMINATION ACCURACY

ST 1696.7 SR 457.4 SS 448.1
 CRT .7642 CRS -.5080 CST -.9431
 LSA 1783.3 MSA 329.2 SSA 16.5
 EL1 1733.4 EL2 288.8 ALF 11.98

LAUNCH DATE FEB 5 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.649 GAL 6.88 AZL 88.69 MCA 277.97 SMA 121.83 ECC .24105 INC 1.3074 V1 30.206
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.979 GAP 12.37 AZP 89.82 TAL 157.10 TAP 75.07 RCA 92.46 APO 151.19 V2 35.076
 RC 178.523 GL 7.24 GP -12.78 ZAL 52.53 ZAP 165.47 ETS 302.30 ZAE 128.95 ETE 190.27 ZAC 156.18 ETC 177.04 CLP-173.03

PLANETOCENTRIC CONIC
 C3 22.954 VHL 4.791 DLA 30.53 RAL 82.90 RAD 6567.9 VEL 12.014 PTH 2.14 VHP 8.422 DPA 7.11 RAP 62.34 ECC 1.3778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.08 0 17 59 3877.34 -20.21 158.61 314.29 66.62 1 22 37 3277.3 -23.20 151.04
 101.92 3 29 12 3261.81 -20.20 113.25 314.28 66.61 4 23 33 2661.8 -23.19 105.68
 78.08 0 17 59 3877.34 -20.21 158.61 314.29 66.62 1 22 37 3277.3 -23.20 151.04
 101.92 3 29 12 3261.81 -20.20 113.25 314.28 66.61 4 23 33 2661.8 -23.19 105.68
 110.00 6 21 47 2722.11 -31.43 76.47 318.52 75.80 7 7 9 2122.1 -33.06 67.63
 110.00 2 24 35 3465.03 -9.75 122.82 308.51 57.07 3 22 20 2865.0 -14.02 116.32

DIFFERENTIAL CORRECTIONS
 TDE .7004 TRA 3.3464 TC3-3.8261 BAU 1.1745
 RDE .3634 RRA .2287 RC3 -.0994 FAU .02269
 FDE .1068 FRA 1.4177 FC3 -.8558 BSP 19558
 BDE .7891 BRA 3.3542 BC3 3.8273 FSP -638

MID-COURSE EXECUTION ACCURACY
 SGT 5977.4 SGR 546.6 SG3 184.6
 RRT .6699 RRF .6498 RTF .9601
 SGB 6002.3 R23 .0050 R13 .9601
 SG1 5988.6 SG2 405.1 THA 3.52

ORBIT DETERMINATION ACCURACY
 ST 1629.9 SR 444.9 SS 440.0
 CRT .6856 CRS -.4157 CST -.9464
 LSA 1709.9 MSA 352.5 SSA 15.7
 EL1 1659.3 EL2 318.2 ALF 11.01

LAUNCH DATE FEB 5 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.613 GAL 7.54 AZL 88.86 MCA 281.19 SMA 121.62 ECC .24848 INC 1.1385 V1 30.206
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.965 GAP 12.90 AZP 89.78 TAL 155.66 TAP 76.84 RCA 91.40 APO 151.84 V2 35.089
 RC 180.483 GL 5.99 GP -12.41 ZAL 50.20 ZAP 166.23 ETS 299.57 ZAE 128.92 ETE 189.99 ZAC 158.34 ETC 176.06 CLP-173.97

PLANETOCENTRIC CONIC
 C3 25.269 VHL 5.027 DLA 29.37 RAL 85.52 RAD 6568.0 VEL 12.110 PTH 2.17 VHP 8.731 DPA 8.00 RAP 64.42 ECC 1.4159
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.87 0 57 16 3808.92 -18.87 152.92 318.15 67.07 2 0 44 3208.9 -21.81 145.40
 98.13 3 10 50 3377.33 -18.85 121.23 318.14 67.06 4 7 7 2777.3 -21.80 113.71
 100.00 4 12 22 3180.24 -22.95 108.34 319.86 70.30 5 5 22 2580.2 -25.42 100.41
 100.00 2 38 25 3481.25 -14.87 127.02 316.24 63.77 3 36 26 2881.2 -18.27 119.88
 110.00 6 49 27 2688.15 -31.97 73.97 322.81 77.19 7 34 15 2088.2 -33.40 65.04
 110.00 2 17 49 3546.09 -6.72 127.14 311.48 56.41 3 16 55 2946.1 -11.10 120.78

DIFFERENTIAL CORRECTIONS
 TDE .5642 TRA 3.6978 TC3-3.4658 BAU 1.1712
 RDE .3699 RRA .2462 RC3 -.0873 FAU .02062
 FDE .0558 FRA 1.4700 FC3 -.7066 BSP 19596
 BDE .6746 BRA 3.7060 BC3 3.4669 FSP -610

MID-COURSE EXECUTION ACCURACY
 SGT 5995.4 SGR 537.7 SG3 177.2
 RRT .6620 RRF .6423 RTF .9610
 SGB 6019.5 R23 .0044 R13 .9610
 SG1 6006.0 SG2 402.3 THA 3.41

ORBIT DETERMINATION ACCURACY
 ST 1590.5 SR 432.5 SS 438.0
 CRT .5983 CRS -.3289 CST -.9528
 LSA 1664.7 MSA 370.2 SSA 15.1
 EL1 1612.4 EL2 341.9 ALF 9.68

LAUNCH DATE FEB 5 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.578 GAL 8.25 AZL 89.03 MCA 284.40 SMA 121.41 ECC .25657 INC .9656 V1 30.206
 RP 107.96 LAP -.94 LOP 60.42 VP 36.952 GAP 13.46 AZP 89.76 TAL 154.24 TAP 78.63 RCA 90.26 APO 152.56 V2 35.102
 RC 182.422 GL 4.81 GP -12.07 ZAL 47.99 ZAP 166.92 ETS 296.48 ZAE 128.88 ETE 189.72 ZAC 160.49 ETC 174.85 CLP-174.91

PLANETOCENTRIC CONIC
 C3 27.970 VHL 5.289 DLA 28.24 RAL 87.97 RAD 6568.1 VEL 12.221 PTH 2.20 VHP 9.064 DPA 8.84 RAP 66.53 ECC 1.4603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 32 17 3558.44 -19.09 134.62 322.63 68.68 3 31 35 2958.4 -21.82 127.01
 90.00 1 55 21 3678.20 -15.97 142.02 321.27 66.30 2 56 40 3078.2 -19.04 134.69
 100.00 4 58 29 3087.02 -24.95 102.13 324.83 72.98 5 49 56 2487.0 -27.04 93.96
 100.00 2 11 50 3624.85 -10.39 135.32 318.49 61.81 3 12 15 3024.8 -14.08 128.48
 110.00 7 13 58 2662.97 -32.33 72.10 326.98 78.24 7 58 21 2063.0 -33.61 63.10
 110.00 2 12 51 3621.66 -3.86 131.12 314.53 56.01 3 13 13 3021.7 -8.30 124.84

DIFFERENTIAL CORRECTIONS
 TDE .4199 TRA 4.0658 TC3-3.1200 BAU 1.1671
 RDE .3766 RRA .2638 RC3 -.0765 FAU .01873
 FDE .0067 FRA 1.5209 FC3 -.5796 BSP 19715
 BDE .5641 BRA 4.0743 BC3 3.1210 FSP -588

MID-COURSE EXECUTION ACCURACY
 SGT 6008.0 SGR 527.5 SG3 170.1
 RRT .6547 RRF .6351 RTF .9622
 SGB 6031.1 R23 .0032 R13 .9622
 SG1 6017.9 SG2 398.1 THA 3.30

ORBIT DETERMINATION ACCURACY
 ST 1570.5 SR 419.4 SS 439.7
 CRT .5038 CRS -.2446 CST -.9603
 LSA 1640.0 MSA 381.9 SSA 14.5
 EL1 1585.5 EL2 358.9 ALF 8.08

LAUNCH DATE FEB 5 1969

FLIGHT TIME 204.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC
 RL 147.50 LAL .00 LOL 136.02 VL 26.544 GAL 9.01 AZL 89.21 MCA 287.61 SMA 121.21 ECC .26539 INC .7875 V1 30.206
 RP 107.92 LAP -.75 LOP 63.64 VP 36.940 GAP 14.07 AZP 89.76 TAL 152.84 TAP 80.46 RCA 89.04 APO 153.38 V2 35.114
 RC 184.340 GL 3.70 GP -11.76 ZAL 45.91 ZAP 167.55 ETS 292.99 ZAE 128.83 ETE 189.47 ZAC 162.64 ETC 173.33 CLP-175.86

PLANETOCENTRIC CONIC
 C3 31.123 VHL 5.579 DLA 27.15 RAL 90.26 RAD 6568.2 VEL 12.349 PTH 2.23 VHP 9.424 DPA 9.62 RAP 68.67 ECC 1.5122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 34 19 3411.96 -22.44 125.18 328.13 72.26 4 31 11 2812.0 -24.65 117.21
 90.00 1 11 33 3878.16 -10.16 153.83 322.94 63.43 2 16 11 3278.2 -13.65 146.89
 100.00 5 31 29 3034.25 -25.95 98.53 329.28 74.62 6 22 4 2434.2 -27.81 90.23
 100.00 1 57 4 3731.10 -6.91 141.30 321.20 60.85 2 59 15 3131.1 -10.75 134.61
 110.00 7 35 59 2644.69 -32.58 70.73 331.06 79.02 8 20 4 2044.7 -33.75 61.69
 110.00 2 9 3 3693.43 -1.12 134.87 317.63 55.83 3 10 37 3093.4 -5.60 128.65

DIFFERENTIAL CORRECTIONS
 TDE .2723 TRA 4.4566 TC3-2.7845 BAU 1.1589
 RDE .3839 RRA .2818 RC3 -.0662 FAU .01687
 FDE -.0385 FRA 1.5732 FC3 -.4692 BSP 19803
 BDE .4706 BRA 4.4655 BC3 2.7853 FSP -566

MID-COURSE EXECUTION ACCURACY
 SGT 6015.6 SGR 516.4 SG3 163.3
 RRT .6479 RRF .6287 RTF .9635
 SGB 6037.7 R23 .0023 R13 .9635
 SG1 6024.9 SG2 392.7 THA 3.20

ORBIT DETERMINATION ACCURACY
 ST 1571.0 SR 406.1 SS 444.9
 CRT .4091 CRS -.1694 CST -.9681
 LSA 1637.4 MSA 386.6 SSA 13.9
 EL1 1580.3 EL2 368.4 ALF 6.39

LAUNCH DATE FEB 5 1969

FLIGHT TIME 206.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 590.331

RL 147.50 LAL .00 LOL 136.02 VL 26.510 GAL 9.83 AZL 89.40 HCA 290.83 SMA 121.01 ECC .27505 INC .6029 V1 30.206
 RP 107.88 LAP -.56 LOP 66.85 VP 36.927 GAP 14.73 AZP 89.79 TAL 151.48 TAP 82.31 RCA 87.73 APO 154.29 V2 35.126
 RC 186.236 GL 2.67 GP -11.47 ZAL 43.94 ZAP 168.10 ETS 289.07 ZAE 128.76 ETE 189.24 ZAC 164.76 ETC 171.38 CLP-176.82

PLANETOCENTRIC CONIC

C3 34.805 VHL 5.900 CLA 26.10 RAL 92.38 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 9.814 DPA 10.34 RAP 70.82 ECC 1.5728
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 9 40 3350.41 -23.65 121.08 332.63 73.96 5 5 30 2750.4 -25.63 112.97
 90.00 0 53 10 3996.07 -6.50 160.56 325.55 62.38 1 59 46 3396.1 -10.15 153.78
 100.00 5 58 40 2998.99 -26.57 96.09 333.50 75.77 6 48 39 2399.0 -28.26 87.70
 100.00 1 46 51 3822.72 -3.85 146.37 324.10 60.33 2 50 34 3222.7 -7.77 139.78
 110.00 7 55 55 2632.14 -32.73 69.79 335.05 79.55 8 39 47 2032.1 -33.83 60.72
 110.00 2 6 6 3762.33 1.51 138.47 320.76 55.85 3 8 48 3162.3 -2.98 132.26

DIFFERENTIAL CORRECTIONS

TDE .1198 TRA 4.8723 TC3-2.4640 BAU 1.1468
 ROE .3916 RRA .2999 RC3 -.0566 FAU .01507
 FDE -.0807 FRA 1.6272 FC3 -.3749 BSP 19876
 BOE .4095 BRA 4.8815 BC3 2.4646 FSP -544

MID-COURSE EXECUTION ACCURACY

SGT 6019.0 SGR 504.3 SG3 156.9
 RRT .6415 RRF .6229 RTF .9650
 SGB 6040.0 R23 .0016 R13 .9650
 SG1 6027.7 SG2 386.2 THA 3.09

ORBIT DETERMINATION ACCURACY

ST 1587.4 SR 392.6 SS 452.7
 CRT .3181 CRS -.1030 CST -.9753
 LSA 1652.3 MSA 385.1 SSA 13.3
 EL1 1592.6 EL2 371.0 ALF 4.76

LAUNCH DATE FEB 5 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 595.303

RL 147.50 LAL .00 LOL 136.02 VL 26.476 GAL 10.70 AZL 89.59 HCA 294.05 SMA 120.81 ECC .28564 INC .4099 V1 30.206
 RP 107.85 LAP -.37 LOP 70.07 VP 36.914 GAP 15.44 AZP 89.83 TAL 150.16 TAP 84.21 RCA 86.30 APO 155.32 V2 35.138
 RC 188.109 GL 1.71 GP -11.21 ZAL 42.10 ZAP 168.58 ETS 284.71 ZAE 128.67 ETE 189.03 ZAC 166.85 ETC 168.80 CLP-177.79

PLANETOCENTRIC CONIC

C3 39.113 VHL 6.254 CLA 25.09 RAL 94.35 RAD 6568.5 VEL 12.668 PTH 2.30 VHP 10.239 DPA 11.01 RAP 72.98 ECC 1.6437
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 37 36 3311.58 -24.36 118.45 336.85 75.10 5 32 48 2711.6 -26.17 110.25
 90.00 0 40 57 4093.86 -3.38 166.06 328.39 61.87 1 49 11 3493.9 -7.12 159.37
 100.00 6 22 5 2974.74 -26.96 94.40 337.58 76.58 7 11 40 2374.7 -28.54 85.95
 100.00 1 39 10 3905.93 -1.03 150.95 327.09 60.12 2 44 16 3305.9 -5.00 144.41
 110.00 8 14 2 2624.50 -32.83 69.21 338.99 79.88 8 57 46 2024.5 -33.87 60.13
 110.00 2 3 42 3828.94 4.05 141.95 323.92 56.03 3 7 31 3228.9 -.44 135.74

DIFFERENTIAL CORRECTIONS

TDE -.0338 TRA 5.3189 TC3-2.1566 BAU 1.1280
 ROE .4000 RRA .3182 RC3 -.0473 FAU .01326
 FDE -.1188 FRA 1.6848 FC3 -.2936 BSP 19854
 BOE .4014 BRA 5.3284 BC3 2.1571 FSP -521

MID-COURSE EXECUTION ACCURACY

SGT 6019.0 SGR 491.3 SG3 150.9
 RRT .6358 RRF .6180 RTF .9667
 SGB 6039.0 R23 .0013 R13 .9667
 SG1 6027.1 SG2 378.7 THA 2.98

ORBIT DETERMINATION ACCURACY

ST 1616.5 SR 379.0 SS 462.6
 CRT .2362 CRS -.0480 CST -.9815
 LSA 1681.4 MSA 378.5 SSA 12.8
 EL1 1619.1 EL2 367.7 ALF 3.34

LAUNCH DATE FEB 5 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 600.122

RL 147.50 LAL .00 LOL 136.02 VL 26.443 GAL 11.64 AZL 89.79 HCA 297.27 SMA 120.62 ECC .29728 INC .2067 V1 30.206
 RP 107.81 LAP -.18 LOP 73.29 VP 36.901 GAP 16.22 AZP 89.91 TAL 148.88 TAP 86.16 RCA 84.76 APO 156.48 V2 35.150
 RC 189.959 GL .81 GP -10.97 ZAL 40.39 ZAP 168.97 ETS 279.89 ZAE 128.55 ETE 188.82 ZAC 168.90 ETC 165.26 CLP-178.77

PLANETOCENTRIC CONIC

C3 44.166 VHL 6.646 CLA 24.13 RAL 96.18 RAD 6568.7 VEL 12.866 PTH 2.34 VHP 10.704 DPA 11.62 RAP 75.15 ECC 1.7269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 14 3285.67 -24.80 116.68 340.90 75.88 5 56 0 2685.7 -26.50 108.43
 90.00 0 31 52 4181.06 -.57 170.92 331.35 61.69 1 41 33 3581.1 -4.35 164.28
 100.00 6 42 42 2958.52 -27.21 93.26 341.54 77.13 7 32 1 2358.5 -28.71 84.78
 100.00 1 33 5 3983.44 1.59 155.20 330.14 60.15 2 39 28 3383.4 -2.39 148.68
 110.00 8 30 33 2621.14 -32.87 68.95 342.86 80.03 9 14 14 2021.1 -33.89 59.87
 110.00 2 1 44 3893.59 6.50 145.35 327.10 56.37 3 6 37 3293.6 2.04 139.11

DIFFERENTIAL CORRECTIONS

TDE -.1965 TRA 5.7914 TC3-1.8724 BAU 1.1058
 ROE .4086 RRA .3359 RC3 -.0390 FAU .01157
 FDE -.1560 FRA 1.7438 FC3 -.2268 BSP 19917
 BOE .4533 BRA 5.8011 BC3 1.8728 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 6012.9 SGR 476.9 SG3 145.2
 RRT .6296 RRF .6128 RTF .9687
 SGB 6031.8 R23 .0007 R13 .9687
 SG1 6020.4 SG2 370.1 THA 2.87

ORBIT DETERMINATION ACCURACY

ST 1651.7 SR 364.9 SS 473.7
 CRT .1604 CRS .0017 CST -.9864
 LSA 1717.6 MSA 368.1 SSA 12.2
 EL1 1652.8 EL2 359.9 ALF 2.13

LAUNCH DATE FEB 5 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 604.759

RL 147.50 LAL .00 LOL 136.02 VL 26.411 GAL 12.67 AZL 90.01 HCA 300.50 SMA 120.43 ECC .31013 INC .0000 V1 30.206
 RP 107.78 LAP .01 LOP 76.52 VP 36.889 GAP 17.06 AZP 90.00 TAL 147.66 TAP 88.16 RCA 83.08 APO 157.78 V2 35.161
 RC 191.786 GL -.03 GP -10.74 ZAL 38.81 ZAP 169.25 ETS 274.65 ZAE 128.41 ETE 188.63 ZAC 170.86 ETC 160.18 CLP-179.78

PLANETOCENTRIC CONIC

C3 50.112 VHL 7.079 CLA 23.22 RAL 97.85 RAD 6568.8 VEL 13.095 PTH 2.39 VHP 11.214 DPA 12.18 RAP 77.31 ECC 1.8247
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 48 3268.66 -25.08 115.52 344.81 76.40 6 16 16 2668.7 -26.70 107.22
 90.00 0 24 41 4261.36 2.02 175.40 334.36 61.75 1 35 42 3661.4 -1.77 168.78
 100.00 7 1 4 2948.56 -27.36 92.56 345.40 77.47 7 50 13 2348.6 -28.81 84.05
 100.00 1 28 5 4056.69 4.07 159.23 333.23 60.36 2 35 42 3456.7 .09 152.70
 110.00 8 45 36 2621.54 -32.86 68.99 346.67 80.01 9 29 17 2021.5 -33.89 59.90
 110.00 2 0 3 3956.47 8.86 148.69 330.29 56.85 3 5 59 3356.5 4.43 142.40

DIFFERENTIAL CORRECTIONS

TDE -.3648 TRA 6.2984 TC3-1.6066 BAU 1.0766
 ROE .4175 RRA .3530 RC3 -.0313 FAU .00988
 FDE -.1911 FRA 1.8069 FC3 -.1707 BSP 19954
 BOE .5545 BRA 6.3083 BC3 1.6069 FSP -483

MID-COURSE EXECUTION ACCURACY

SGT 6002.5 SGR 461.3 SG3 139.7
 RRT .6231 RRF .6075 RTF .9708
 SGB 6020.2 R23 .0005 R13 .9708
 SG1 6009.4 SG2 360.4 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 1691.5 SR 350.6 SS 486.2
 CRT .0936 CRS .0439 CST -.9902
 LSA 1759.0 MSA 355.2 SSA 11.7
 EL1 1691.8 EL2 349.0 ALF 1.16

LAUNCH DATE FEB 5 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 609.175

RL 147.50 LAL .00 LOL 136.02 VL 26.379 GAL 13.78 AZL 90.24 HCA 303.72 SMA 120.25 ECC .32434 INC .2381 V1 30.206
 RP 107.75 LAP .20 LOP 79.74 VP 36.876 GAP 17.99 AZP 90.13 TAL 146.51 TAP 90.24 RCA 81.25 APO 159.25 V2 35.172
 RC 193.588 GL -.81 GP -10.54 ZAL 37.35 ZAP 169.43 ETS 269.01 ZAE 128.23 ETE 188.43 ZAC 172.69 ETC 152.51 CLP 179.19

PLANETOCENTRIC CONIC

C3 57.139 VHL 7.559 DLA 22.35 RAL 99.39 RAD 6569.0 VEL 13.360 PTH 2.44 VHP 11.776 DPA 12.69 RAP 79.47 ECC 1.9404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 39 56 3258.38 -25.24 114.81 348.60 76.72 6 34 14 2658.4 -26.82 106.49
 90.00 0 18 46 4336.57 4.43 179.61 337.40 62.00 1 31 3 3736.6 .65 172.97
 100.00 7 17 31 2943.71 -27.43 92.21 349.16 77.63 8 6 35 2343.7 -28.86 83.70
 100.00 1 23 52 4126.47 6.41 163.09 336.32 60.74 2 32 38 3526.5 2.46 156.53
 110.00 8 59 19 2625.26 -32.82 69.27 350.40 79.85 9 43 4 2025.3 -33.87 60.19
 110.00 1 58 34 4017.68 11.12 151.99 333.47 57.47 3 5 32 3417.7 6.75 145.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5385 TRA 6.8437 TC3 -1.3605 BAU 1.0394 SGT 5988.0 SGR 444.5 SG3 134.6 ST 1732.5 SR 336.1 SS 500.0
 RDE .4269 RRA .3691 RC3 -.0243 FAU .00820 RRT .6162 RRF .6019 RTF .9731 CRT .0355 CRS .0802 CST -.9930
 FDE -.2245 FRA 1.8748 FC3 -.1243 BSP 19974 SGB 6004.5 R23 .0002 R13 .9731 LSA 1802.4 MSA 340.5 SSA 11.2
 BDE .6872 BRA 6.8537 BC3 1.3607 FSP -.465 SG1 5994.3 SG2 349.7 THA 2.63 EL1 1732.6 EL2 335.9 ALF .41

LAUNCH DATE FEB 5 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 613.324

RL 147.50 LAL .00 LOL 136.02 VL 26.348 GAL 15.00 AZL 90.49 HCA 306.95 SMA 120.07 ECC .34012 INC .4864 V1 30.206
 RP 107.71 LAP .39 LOP 82.97 VP 36.864 GAP 19.02 AZP 90.29 TAL 145.44 TAP 92.39 RCA 79.23 APO 160.91 V2 35.182
 RC 195.366 GL -1.53 GP -10.35 ZAL 36.03 ZAP 169.48 ETS 263.05 ZAE 128.01 ETE 188.24 ZAC 174.28 ETC 140.32 CLP 178.11

PLANETOCENTRIC CONIC

C3 65.486 VHL 8.092 DLA 21.54 RAL 100.78 RAD 6569.2 VEL 13.669 PTH 2.50 VHP 12.399 DPA 13.15 RAP 81.61 ECC 2.0777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 56 3 3253.45 -25.32 114.47 352.28 76.87 6 50 16 2653.4 -26.87 106.14
 90.00 0 13 45 4407.66 6.69 183.62 340.45 62.42 1 27 13 3807.7 2.95 176.94
 100.00 7 32 17 2943.12 -27.44 92.17 352.82 77.66 8 21 20 2343.1 -28.87 83.66
 100.00 1 20 12 4193.22 8.61 166.82 339.41 61.26 2 30 5 3593.2 4.71 160.20
 110.00 9 11 46 2631.88 -32.74 69.77 354.05 79.57 9 55 38 2031.9 -33.83 60.70
 110.00 1 57 12 4077.22 13.28 155.25 336.64 58.21 3 5 10 3477.2 8.98 148.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7163 TRA 7.4360 TC3 -1.1310 BAU .9903 SGT 5970.3 SGR 426.6 SG3 129.7 ST 1773.0 SR 321.6 SS 514.9
 RDE .4371 RRA .3840 RC3 -.0179 FAU .00645 RRT .6086 RRF .5960 RTF .9755 CRT -.0140 CRS .1095 CST -.9952
 FDE -.2555 FRA 1.9498 FC3 -.0852 BSP 19892 SGB 5985.6 R23 .0005 R13 .9755 LSA 1845.6 MSA 325.0 SSA 10.7
 BDE .8391 BRA 7.4459 BC3 1.1312 FSP -.445 SG1 5976.0 SG2 338.2 THA 2.50 EL1 1773.0 EL2 321.6 ALF 179.85

LAUNCH DATE FEB 5 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 617.142

RL 147.50 LAL .00 LOL 136.02 VL 26.319 GAL 16.34 AZL 90.76 HCA 310.18 SMA 119.90 ECC .35770 INC .7569 V1 30.206
 RP 107.68 LAP .58 LOP 86.20 VP 36.852 GAP 20.16 AZP 90.49 TAL 144.47 TAP 94.65 RCA 77.01 APO 162.79 V2 35.192
 RC 197.118 GL -2.20 GP -10.17 ZAL 34.84 ZAP 169.40 ETS 256.89 ZAE 127.74 ETE 188.06 ZAC 175.42 ETC 120.98 CLP 177.00

PLANETOCENTRIC CONIC

C3 75.456 VHL 8.687 DLA 20.77 RAL 102.02 RAD 6569.5 VEL 14.029 PTH 2.56 VHP 13.093 DPA 13.55 RAP 83.72 ECC 2.2418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 23 3252.86 -25.33 114.43 355.83 76.89 7 4 36 2652.9 -26.88 106.10
 90.00 0 9 22 4475.17 8.80 187.46 343.47 62.98 1 23 57 3875.2 5.11 180.72
 100.00 7 45 31 2946.09 -27.40 92.38 356.36 77.55 8 34 37 2346.1 -28.84 83.87
 100.00 1 16 55 4257.19 10.68 170.44 342.47 61.92 2 27 52 3657.2 6.85 163.75
 110.00 9 23 2 2641.01 -32.62 70.45 357.60 79.17 10 7 3 2041.0 -33.77 61.41
 110.00 1 55 54 4135.02 15.33 158.48 339.78 59.06 3 4 49 3535.0 11.11 151.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9071 TRA 8.0722 TC3 -.9238 BAU .9320 SGT 5946.6 SGR 407.2 SG3 125.1 ST 1810.8 SR 306.8 SS 531.3
 RDE .4474 RRA .3965 RC3 -.0123 FAU .00471 RRT .5991 RRF .5882 RTF .9780 CRT -.0597 CRS .1377 CST -.9967
 FDE -.2872 FRA 2.0304 FC3 -.0540 BSP 19916 SGB 5960.6 R23 .0006 R13 .9780 LSA 1886.8 MSA 308.7 SSA 10.2
 BDE 1.0114 BRA 8.0820 BC3 .9239 FSP -.429 SG1 5951.7 SG2 325.8 THA 2.36 EL1 1810.9 EL2 306.3 ALF 179.40

LAUNCH DATE FEB 5 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 620.549

RL 147.50 LAL .00 LOL 136.02 VL 26.290 GAL 17.82 AZL 91.05 HCA 313.41 SMA 119.74 ECC .37737 INC 1.0546 V1 30.206
 RP 107.66 LAP .77 LOP 89.43 VP 36.840 GAP 21.44 AZP 90.72 TAL 143.62 TAP 97.02 RCA 74.55 APO 164.93 V2 35.201
 RC 198.846 GL -2.82 GP -10.01 ZAL 33.79 ZAP 169.16 ETS 250.63 ZAE 127.41 ETE 187.86 ZAC 175.78 ETC 94.97 CLP 175.83

PLANETOCENTRIC CONIC

C3 87.444 VHL 9.351 DLA 20.06 RAL 103.12 RAD 6569.7 VEL 14.450 PTH 2.62 VHP 13.870 DPA 13.91 RAP 85.79 ECC 2.4391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 6 3255.87 -25.28 114.63 359.24 76.80 7 17 22 2655.9 -26.85 106.32
 90.00 0 5 26 4539.38 10.76 191.15 346.45 63.85 1 21 5 3939.4 7.14 184.35
 100.00 7 57 19 2952.06 -27.31 92.80 359.76 77.35 8 46 31 2352.1 -28.78 84.31
 100.00 1 13 54 4318.42 12.62 173.95 345.49 62.68 2 25 52 3718.4 8.86 167.18
 110.00 9 33 8 2652.29 -32.48 71.30 357.10 78.69 10 17 20 2052.3 -33.69 62.28
 110.00 1 54 34 4190.96 17.26 161.67 342.87 60.02 3 4 25 3591.0 13.14 154.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1059 TRA 8.7651 TC3 -.7346 BAU .8588 SGT 5919.0 SGR 386.5 SG3 120.7 ST 1844.6 SR 292.0 SS 549.3
 RDE .4585 RRA .4063 RC3 -.0075 FAU .00288 RRT .5875 RRF .5785 RTF .9806 CRT -.1002 CRS .1629 CST -.9978
 FDE -.3183 FRA 2.1200 FC3 -.0285 BSP 19905 SGB 5931.6 R23 .0009 R13 .9806 LSA 1924.6 MSA 292.2 SSA 9.7
 BDE 1.1972 BRA 8.7745 BC3 .7347 FSP -.414 SG1 5923.3 SG2 312.5 THA 2.20 EL1 1844.9 EL2 290.5 ALF 179.07

LAUNCH DATE FEB 6 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 17 1969

HELIOCENTRIC CONIC

DISTANCE 173.978

RL 147.53 LAL .00 LOL 137.03 VL 25.220 GAL -3.20 AZL 87.54 HCA 75.05 SMA 114.10 ECC .29781 INC 2.4564 V1 30.201
 RP 108.09 LAP 2.37 LOP 212.07 VP 35.951 GAP -17.07 AZP 89.37 TAL 187.61 TAP 262.66 RCA 80.12 APO 148.08 V2 35.060
 RC 44.011 GL 11.47 GP 9.63 ZAL 108.17 ZAP 10.40 ETS 250.30 ZAE 158.27 ETE 2.86 ZAC 125.46 ETC 157.33 CLP 3.93

PLANETOCENTRIC CONIC

C3 29.451 VHL 5.427 DLA 21.61 RAL 22.09 RAD 6568.2 VEL 12.281 PTH 2.21 VHP 10.967 OPA 20.36 RAP 30.63 ECC 1.4847
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 37 16 3057.53 -27.61 100.60 258.67 83.45 1 28 14 2457.5 -28.23 91.99
 90.00 18 52 57 4204.89 .20 172.25 249.79 61.68 20 3 1 3604.9 -3.59 165.62
 100.00 2 13 38 2746.82 -29.49 77.96 258.89 84.85 2 59 24 2146.8 -29.89 69.18
 100.00 19 59 16 3990.82 1.84 155.60 248.87 60.16 21 5 47 3390.8 -2.14 149.08
 110.00 3 53 19 2434.95 -34.15 54.59 259.21 88.42 4 33 54 1835.0 -33.99 45.35
 110.00 20 36 4 3875.46 5.82 144.39 246.40 56.26 21 40 40 3275.5 1.34 138.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3079 TRA -.5282 TC3 .3143 BAU .1244 SGT 762.8 SGR 432.0 SG3 76.2 ST 371.7 SR 414.0 SS 204.6
 RDE -.3905 RRA .1095 RC3 .0315 FAU .02627 RRT .2158 RRF -.2419 RTF -.6847 CRT .8274 CRS .9358 CST .9644
 FDE .1967 FRA .1572 FC3 -.7721 BSP 2162 SGB 876.6 R23 -.0316 R13 -.6908 LSA 569.6 MSA 163.2 SSA 18.8
 BOE .4973 BRA .5395 BC3 .3159 FSP -180 SG1 770.9 SG2 417.4 TMA 9.90 EL1 532.1 EL2 162.4 ALF 48.72

LAUNCH DATE FEB 6 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 180.704

RL 147.53 LAL .00 LOL 137.03 VL 25.508 GAL -3.27 AZL 87.72 HCA 78.26 SMA 115.55 ECC .28214 INC 2.2814 V1 30.201
 RP 108.13 LAP 2.23 LOP 215.28 VP 36.141 GAP -15.98 AZP 89.54 TAL 188.40 TAP 266.65 RCA 82.95 APO 148.15 V2 35.047
 RC 44.838 GL 11.33 GP 10.18 ZAL 109.68 ZAP 10.37 ETS 261.66 ZAE 156.07 ETE 4.81 ZAC 126.33 ETC 156.42 CLP 1.97

PLANETOCENTRIC CONIC

C3 26.647 VHL 5.162 DLA 20.91 RAL 20.65 RAD 6568.1 VEL 12.166 PTH 2.18 VHP 10.355 OPA 21.35 RAP 31.62 ECC 1.4385
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 12 3001.09 -27.98 96.51 255.08 85.47 1 30 14 2401.1 -28.32 87.86
 90.00 18 38 33 4211.44 .41 172.62 246.57 61.69 19 48 44 3611.4 -3.38 165.99
 100.00 2 15 32 2693.71 -29.75 74.03 255.22 86.90 3 0 26 2093.7 -29.86 65.23
 100.00 19 45 54 3994.05 1.95 155.78 245.71 60.17 20 52 28 3394.0 -2.03 149.26
 110.00 3 53 23 2387.57 -34.18 50.89 255.33 90.61 4 33 11 1787.6 -33.72 41.68
 110.00 20 24 32 3872.95 5.72 144.26 243.37 56.24 21 29 5 3273.0 1.25 138.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3045 TRA -.5039 TC3 .3820 BAU .1372 SGT 792.6 SGR 437.5 SG3 85.0 ST 382.9 SR 417.1 SS 202.5
 RDE -.3742 RRA .1071 RC3 .0503 FAU .02815 RRT .2442 RRF -.2741 RTF -.7034 CRT .8361 CRS .9415 CST .9627
 FDE .1969 FRA .1440 FC3 -.9146 BSP 2290 SGB 905.3 R23 -.0366 R13 -.7103 LSA 578.8 MSA 161.9 SSA 20.0
 BOE .4825 BRA .5151 BC3 .3853 FSP -205 SG1 802.5 SG2 419.0 TMA 10.60 EL1 542.8 EL2 161.4 ALF 47.92

LAUNCH DATE FEB 6 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 187.438

RL 147.53 LAL .00 LOL 137.03 VL 25.770 GAL -3.35 AZL 87.89 HCA 81.46 SMA 116.92 ECC .26781 INC 2.1105 V1 30.201
 RP 108.17 LAP 2.09 LOP 218.49 VP 36.314 GAP -14.94 AZP 89.69 TAL 189.25 TAP 270.71 RCA 85.61 APO 148.23 V2 35.033
 RC 45.818 GL 11.09 GP 10.79 ZAL 111.30 ZAP 10.79 ETS 272.87 ZAE 154.02 ETE 6.61 ZAC 127.12 ETC 155.45 CLP -.03

PLANETOCENTRIC CONIC

C3 24.266 VHL 4.926 DLA 20.08 RAL 19.17 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 9.774 OPA 22.37 RAP 32.55 ECC 1.3994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 0 2942.36 -28.22 92.23 251.51 87.60 1 33 3 2342.4 -28.26 83.57
 90.00 18 22 55 4223.97 .81 173.32 243.40 61.69 19 33 19 3624.0 -2.98 166.69
 100.00 2 18 15 2638.47 -29.88 69.93 251.57 89.06 3 2 14 2038.5 -29.69 61.13
 100.00 19 31 22 4003.10 2.26 156.28 242.60 60.19 20 38 5 3403.1 -1.72 149.76
 110.00 3 54 7 2338.53 -34.08 47.07 251.48 92.87 4 33 6 1738.5 -33.30 37.91
 110.00 20 11 59 3875.80 5.83 144.41 240.38 56.26 21 16 35 3275.8 1.36 138.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2983 TRA -.4793 TC3 .4572 BAU .1502 SGT 822.0 SGR 443.5 SG3 95.0 ST 390.3 SR 419.4 SS 197.5
 RDE -.3590 RRA .1054 RC3 .0738 FAU .03026 RRT .2748 RRF -.3104 RTF -.7219 CRT .8428 CRS .9469 CST .9597
 FDE .1950 FRA .1284 FC3 -1.0797 BSP 2431 SGB 934.0 R23 -.0433 R13 -.7299 LSA 584.0 MSA 160.4 SSA 21.3
 BOE .4668 BRA .4908 BC3 .4631 FSP -234 SG1 834.1 SG2 420.2 TMA 11.35 EL1 550.1 EL2 160.2 ALF 47.45

LAUNCH DATE FEB 6 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 194.177

RL 147.53 LAL .00 LOL 137.03 VL 26.009 GAL -3.44 AZL 88.06 HCA 84.66 SMA 118.21 ECC .25475 INC 1.9427 V1 30.201
 RP 108.21 LAP 1.93 LOP 221.69 VP 36.471 GAP -13.96 AZP 89.82 TAL 190.17 TAP 274.83 RCA 88.09 APO 148.32 V2 35.020
 RC 46.944 GL 10.75 GP 11.47 ZAL 112.99 ZAP 11.65 ETS 283.08 ZAE 152.12 ETE 8.34 ZAC 127.81 ETC 154.41 CLP -2.08

PLANETOCENTRIC CONIC

C3 22.247 VHL 4.717 DLA 19.13 RAL 17.67 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 9.224 OPA 23.43 RAP 33.41 ECC 1.3661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 48 36 2881.91 -28.32 87.81 247.99 89.81 1 36 38 2281.9 -28.04 79.16
 90.00 18 6 22 4242.05 1.40 174.33 240.34 61.71 19 17 4 3642.0 -2.40 167.70
 100.00 2 21 45 2581.56 -29.87 65.70 247.97 91.28 3 4 46 1981.6 -29.37 56.93
 100.00 19 15 54 4017.63 2.75 157.08 239.58 60.22 20 22 52 3417.6 -1.23 150.55
 110.00 3 55 32 2288.14 -33.84 43.15 247.71 95.18 4 33 40 1688.1 -32.75 34.08
 110.00 19 58 36 3883.82 6.13 144.83 237.49 56.31 21 3 20 3283.8 1.66 138.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2931 TRA -.4555 TC3 .5355 BAU .1622 SGT 851.4 SGR 450.3 SG3 106.1 ST 397.3 SR 420.6 SS 189.2
 RDE -.3446 RRA .1045 RC3 .1030 FAU .03262 RRT .3116 RRF -.3508 RTF -.7367 CRT .8498 CRS .9515 CST .9561
 FDE .1900 FRA .1103 FC3 -1.2696 BSP 2539 SGB 963.2 R23 -.0495 R13 -.7460 LSA 587.3 MSA 158.3 SSA 22.9
 BOE .4524 BRA .4674 BC3 .5453 FSP -266 SG1 866.6 SG2 420.4 TMA 12.29 EL1 556.5 EL2 158.3 ALF 46.92

LAUNCH DATE FEB 6 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.226 GAL -3.53 AZL 88.22 HCA 87.86 SMA 119.41 ECC .24290 INC 1.7766 V1 30.201
 RP 108.25 LAP 1.78 LOP 224.83 VP 36.613 GAP -13.01 AZP 89.93 TAL 191.14 TAP 279.00 RCA 90.41 APO 148.42 V2 35.007
 RC 48.205 GL 10.32 GP 12.22 ZAL 114.74 ZAP 12.90 ETS 291.83 ZAE 150.41 ETE 10.05 ZAC 128.39 ETC 153.30 CLP -4.18

PLANETOCENTRIC CONIC
 C3 20.538 VHL 4.532 CLA 18.06 RAL 16.18 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 8.702 DPA 24.53 RAP 34.19 ECC 1.3380
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 56 2820.28 -28.25 83.30 244.56 92.07 1 40 56 2220.3 -27.66 168.99
 90.00 17 49 7 4265.20 2.14 175.62 237.40 61.76 19 0 13 3665.2 -1.65 52.68
 100.00 2 25 59 2523.45 -29.70 61.39 244.48 93.55 3 8 2 1923.5 -28.89 151.63
 100.00 18 59 46 4037.25 3.41 158.16 236.70 60.29 20 7 3 3437.3 -32.05 30.24
 110.00 3 57 37 2236.72 -33.45 39.19 244.05 97.50 4 34 54 3296.8 2.16 139.27
 110.00 19 44 36 3896.75 6.62 145.52 234.71 56.39 20 49 33 3296.8 2.16 139.27

DIFFERENTIAL CORRECTIONS
 TDE -.2847 TRA -.4316 TC3 .6187 BAU .1741
 RDE -.3309 RRA .1043 RC3 .1386 FAU .03527
 FDE .1815 FRA .0893 FC3-1.4869 BSP 2663
 BDE .4365 BRA .4440 BC3 .6341 FSP -303

MID-COURSE EXECUTION ACCURACY
 SGT 879.4 SGR 458.3 SG3 118.6
 RRT .3510 RRF -.3957 RTF -.7512
 SGB 991.7 R23 -.0574 R13 -.7622
 SG1 898.3 SG2 420.1 THA 13.33

ORBIT DETERMINATION ACCURACY
 ST 399.3 SR 420.4 SS 177.2
 CRT .8546 CRS .9553 CST .9498
 LSA 585.3 MSA 156.1 SSA 24.7
 EL1 558.4 EL2 156.1 ALF 46.72

LAUNCH DATE FEB 6 1969

FLIGHT TIME 80.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.423 GAL -3.62 AZL 88.39 HCA 91.05 SMA 120.54 ECC .23219 INC 1.6114 V1 30.201
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.742 GAP -12.11 AZP 90.03 TAL 192.16 TAP 283.21 RCA 92.55 APO 148.53 V2 34.994
 RC 49.590 GL 9.77 GP 13.05 ZAL 116.52 ZAP 14.49 ETS 299.05 ZAE 148.88 ETE 11.78 ZAC 128.85 ETC 152.14 CLP -6.34

PLANETOCENTRIC CONIC
 C3 19.094 VHL 4.370 CLA 16.88 RAL 14.72 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 8.208 DPA 25.68 RAP 34.87 ECC 1.3142
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 57 2757.92 -28.01 78.76 241.26 94.34 1 45 55 2157.9 -27.11 70.21
 90.00 17 31 28 4292.90 3.03 177.17 234.64 61.83 18 43 1 3692.9 -7.76 170.54
 100.00 2 30 55 2464.55 -29.37 57.04 241.12 95.81 3 12 0 1864.6 -28.26 48.42
 100.00 18 43 11 4061.50 4.23 159.49 233.98 60.38 19 50 53 3461.5 .26 152.96
 110.00 4 0 24 2184.57 -32.92 35.21 240.56 99.79 4 36 49 1584.6 -31.21 26.40
 110.00 19 30 11 3914.24 7.28 146.44 232.10 56.51 20 35 26 3314.2 2.83 140.19

DIFFERENTIAL CORRECTIONS
 TDE -.2745 TRA -.4086 TC3 .7044 BAU .1857
 RDE -.3177 RRA .1047 RC3 .1815 FAU .03824
 FDE .1688 FRA .0659 FC3-1.7338 BSP 2774
 BDE .4198 BRA .4218 BC3 .7274 FSP -344

MID-COURSE EXECUTION ACCURACY
 SGT 906.6 SGR 468.2 SG3 132.5
 RRT .3939 RRF -.4449 RTF -.7644
 SGB 1020.4 R23 -.0668 R13 -.7773
 SG1 930.2 SG2 419.5 THA 14.51

ORBIT DETERMINATION ACCURACY
 ST 397.6 SR 418.8 SS 161.4
 CRT .8575 CRS .9574 CST .9400
 LSA 578.9 MSA 154.0 SSA 26.8
 EL1 556.6 EL2 153.9 ALF 46.73

LAUNCH DATE FEB 6 1969

FLIGHT TIME 82.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.602 GAL -3.71 AZL 88.55 HCA 94.25 SMA 121.58 ECC .22254 INC 1.4460 V1 30.201
 RP 108.33 LAP 1.44 LOP 231.28 VP 36.858 GAP -11.26 AZP 90.11 TAL 193.20 TAP 287.45 RCA 94.53 APO 148.64 V2 34.980
 RC 51.091 GL 9.12 GP 13.98 ZAL 118.31 ZAP 16.36 ETS 304.89 ZAE 147.53 ETE 13.57 ZAC 129.16 ETC 150.92 CLP -8.58

PLANETOCENTRIC CONIC
 C3 17.875 VHL 4.228 CLA 15.60 RAL 13.32 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 7.742 DPA 26.89 RAP 35.44 ECC 1.2942
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 6 37 2695.23 -27.60 74.22 238.13 96.58 1 51 32 2095.2 -26.40 65.76
 90.00 17 13 38 4324.67 4.05 178.94 232.08 61.95 18 25 43 3724.7 .27 172.31
 100.00 2 36 32 2405.23 -28.89 52.70 237.94 98.05 3 16 37 1805.2 -27.47 44.18
 100.00 18 26 24 4089.90 5.19 161.06 231.46 60.52 19 34 34 3489.9 1.22 154.52
 110.00 4 3 52 2131.99 -32.24 31.26 237.25 102.04 4 39 24 1532.0 -30.24 22.61
 110.00 19 15 33 3935.91 8.09 147.60 229.67 56.67 20 21 9 3335.9 3.65 141.32

DIFFERENTIAL CORRECTIONS
 TDE -.2620 TRA -.3859 TC3 .7904 BAU .1969
 RDE -.3046 RRA .1060 RC3 .2325 FAU .04156
 FDE .1506 FRA .0392 FC3-2.0130 BSP 2895
 BDE .4017 BRA .4002 BC3 .8239 FSP -391

MID-COURSE EXECUTION ACCURACY
 SGT 931.4 SGR 480.9 SG3 148.2
 RRT .4397 RRF -.4979 RTF -.7762
 SGB 1048.2 R23 -.0776 R13 -.7917
 SG1 961.0 SG2 418.6 THA 15.88

ORBIT DETERMINATION ACCURACY
 ST 391.1 SR 415.2 SS 141.1
 CRT .8582 CRS .9564 CST .9229
 LSA 566.9 MSA 151.7 SSA 29.3
 EL1 549.9 EL2 151.6 ALF 46.99

LAUNCH DATE FEB 6 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.763 GAL -3.80 AZL 88.72 HCA 97.44 SMA 122.55 ECC .21388 INC 1.2794 V1 30.201
 RP 108.38 LAP 1.27 LOP 234.47 VP 36.963 GAP -10.44 AZP 90.17 TAL 194.25 TAP 291.69 RCA 96.34 APO 148.76 V2 34.967
 RC 52.697 GL 8.35 GP 15.01 ZAL 120.08 ZAP 18.48 ETS 309.59 ZAE 146.37 ETE 15.48 ZAC 129.31 ETC 149.67 CLP -10.91

PLANETOCENTRIC CONIC
 C3 16.849 VHL 4.105 CLA 14.22 RAL 12.00 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 7.303 DPA 28.17 RAP 35.88 ECC 1.2773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 54 2632.52 -27.03 69.72 235.20 98.77 1 57 46 2032.5 -25.54 61.37
 90.00 16 55 49 4360.01 5.18 180.93 229.75 62.12 18 8 29 3760.0 1.41 174.28
 100.00 2 42 49 2345.78 -28.24 48.40 234.97 100.23 3 21 54 1745.8 -26.54 40.01
 100.00 18 9 35 4121.99 6.26 162.84 229.16 60.71 19 18 17 3522.0 2.31 156.28
 110.00 4 8 1 2079.20 -31.42 27.36 234.17 104.21 4 42 40 1479.2 -29.15 18.89
 110.00 19 0 53 3961.33 9.04 148.95 227.46 56.89 20 6 54 3361.3 4.62 142.66

DIFFERENTIAL CORRECTIONS
 TDE -.2477 TRA -.3642 TC3 .8740 BAU .2076
 RDE -.2914 RRA .1080 RC3 .2926 FAU .04526
 FDE .1263 FRA .0096 FC3-2.3254 BSP 3008
 BDE .3824 BRA .3799 BC3 .9217 FSP -444

MID-COURSE EXECUTION ACCURACY
 SGT 953.6 SGR 497.3 SG3 165.6
 RRT .4879 RRF -.5539 RTF -.7865
 SGB 1075.5 R23 -.0898 R13 -.8053
 SG1 991.1 SG2 417.7 THA 17.47

ORBIT DETERMINATION ACCURACY
 ST 380.5 SR 409.4 SS 117.0
 CRT .8565 CRS .9473 CST .8908
 LSA 550.1 MSA 149.6 SSA 32.1
 EL1 538.6 EL2 149.3 ALF 47.45

LAUNCH DATE FEB 6 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 227.795

RL 147.53 LAL .00 LOL 137.03 VL 26.909 GAL -3.89 AZL 88.89 HCA 100.63 SMA 123.44 ECC .20615 INC 1.1104 V1 30.201
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.056 GAP -9.65 AZP 90.20 TAL 195.31 TAP 295.94 RCA 97.99 APO 148.89 V2 34.954
 RC 54.398 GL 7.48 GP 16.16 ZAL 121.81 ZAP 20.84 ETS 313.40 ZAE 145.39 ETE 17.54 ZAC 129.28 ETC 148.39 CLP -13.34

PLANETOCENTRIC CONIC

C3 15.987 VHL 3.998 CLA 12.76 RAL 10.78 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 6.891 DPA 29.51 RAP 36.16 ECC 1.2631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 21 49 2570.01 -26.31 65.29 232.49 100.87 2 4 39 1970.0 -24.54 57.06
 90.00 16 38 11 4398.52 6.40 183.10 227.66 62.36 17 51 30 3798.5 2.65 176.43
 100.00 2 49 45 2286.41 -27.45 44.16 232.22 102.32 3 27 51 1686.4 -25.48 35.92
 100.00 17 52 56 4157.35 7.43 164.81 227.10 60.96 19 2 14 3557.4 3.50 158.23
 110.00 4 12 51 2026.39 -30.47 23.54 231.34 106.29 4 46 37 1426.4 -27.94 15.26
 110.00 18 46 19 3990.14 10.11 150.50 225.48 57.17 19 52 50 3390.1 5.71 144.17

DIFFERENTIAL CORRECTIONS

TDE -.2299 TRA -.3422 TC3 .9565 BAU .2187
 RDE -.2775 RRA .1110 RC3 .3632 FAU .04941
 FDE .0934 FRA -.0239 FC3-2.6755 BSP 3153
 BDE .3603 BRA .3597 BC3 1.0231 FSP -506

MID-COURSE EXECUTION ACCURACY

SGT 972.8 SGR 518.7 SG3 185.2
 RRT .5374 RRF -.6118 RTF -.7973
 SGB 1102.4 R23 -.1020 R13 -.8201
 SG1 1020.6 SG2 417.0 THA 19.34

ORBIT DETERMINATION ACCURACY

ST 363.1 SR 400.7 SS 88.6
 CRT .8511 CRS .9105 CST .8140
 LSA 526.5 MSA 147.4 SSA 35.5
 EL1 520.4 EL2 146.8 ALF 48.31

LAUNCH DATE FEB 6 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 234.481

RL 147.53 LAL .00 LOL 137.03 VL 27.039 GAL -3.97 AZL 89.06 HCA 103.81 SMA 124.25 ECC .19928 INC .9380 V1 30.201
 RP 108.45 LAP .91 LOP 240.85 VP 37.139 GAP -8.90 AZP 90.22 TAL 196.36 TAP 300.17 RCA 99.49 APO 149.01 V2 34.942
 RC 56.186 GL 6.49 GP 17.44 ZAL 123.47 ZAP 23.42 ETS 316.52 ZAE 144.57 ETE 19.80 ZAC 129.05 ETC 147.10 CLP -15.88

PLANETOCENTRIC CONIC

C3 15.265 VHL 3.907 CLA 11.23 RAL 9.68 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 6.505 DPA 30.93 RAP 36.26 ECC 1.2512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 30 22 2507.82 -25.44 60.94 230.02 102.88 2 12 9 1907.8 -23.41 52.86
 90.00 16 20 52 4439.83 7.70 185.44 225.83 62.67 17 34 52 3839.8 3.98 178.74
 100.00 2 57 21 2227.26 -26.52 40.01 229.73 104.32 3 34 28 1627.3 -24.29 31.92
 100.00 17 36 34 4195.62 8.69 166.95 225.30 61.29 18 46 30 3595.6 4.79 160.34
 110.00 4 18 23 1973.68 -29.41 19.80 228.78 108.27 4 51 17 1373.7 -26.63 11.72
 110.00 18 32 1 4021.97 11.28 152.23 223.75 57.51 19 39 3 3422.0 6.91 145.85

DIFFERENTIAL CORRECTIONS

TDE -.2120 TRA -.3232 TC3 1.0278 BAU .2286
 RDE -.2627 RRA .1146 RC3 .4448 FAU .05395
 FDE .0523 FRA -.0590 FC3-3.0597 BSP 3261
 BDE .3376 BRA .3429 BC3 1.1199 FSP -573

MID-COURSE EXECUTION ACCURACY

SGT 987.5 SGR 546.4 SG3 206.8
 RRT .5859 RRF -.6694 RTF -.8044
 SGB 1128.6 R23 -.1169 R13 -.8326
 SG1 1048.8 SG2 417.0 THA 21.53

ORBIT DETERMINATION ACCURACY

ST 343.9 SR 388.8 SS 60.9
 CRT .8420 CRS .7521 CST .5840
 LSA 500.4 MSA 145.7 SSA 39.3
 EL1 498.5 EL2 144.7 ALF 49.16

LAUNCH DATE FEB 6 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 241.149

RL 147.53 LAL .00 LOL 137.03 VL 27.156 GAL -4.05 AZL 89.24 HCA 107.00 SMA 124.99 ECC .19318 INC .7609 V1 30.201
 RP 108.49 LAP .73 LOP 244.03 VP 37.212 GAP -8.18 AZP 90.22 TAL 197.38 TAP 304.38 RCA 100.84 APO 149.14 V2 34.929
 RC 58.051 GL 5.39 GP 18.86 ZAL 125.05 ZAP 26.22 ETS 319.12 ZAE 143.89 ETE 22.30 ZAC 128.60 ETC 145.82 CLP -18.56

PLANETOCENTRIC CONIC

C3 14.662 VHL 3.829 CLA 9.62 RAL 8.72 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 6.147 DPA 32.43 RAP 36.15 ECC 1.2413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 39 35 2445.97 -24.43 56.69 227.83 104.79 2 20 21 1846.0 -22.16 48.75
 90.00 16 3 58 4483.65 9.06 187.94 224.28 63.06 17 18 42 3883.7 5.38 181.20
 100.00 3 5 39 2168.35 -25.47 35.95 227.51 106.20 3 41 47 1568.4 -23.00 28.02
 100.00 17 20 34 4236.50 10.02 169.26 223.77 61.69 18 31 11 3636.5 6.16 162.60
 110.00 4 24 40 1921.11 -28.23 16.16 226.49 110.13 4 56 41 1321.1 -25.23 8.24
 110.00 18 18 3 4056.51 12.53 154.11 222.28 57.93 19 25 40 3456.5 8.21 147.69

DIFFERENTIAL CORRECTIONS

TDE -.1932 TRA -.3065 TC3 1.0870 BAU .2378
 RDE -.2467 RRA .1188 RC3 .5385 FAU .05889
 FDE .0017 FRA -.0954 FC3-3.4772 BSP 3354
 BDE .3133 BRA .3288 BC3 1.2131 FSP -647

MID-COURSE EXECUTION ACCURACY

SGT 996.4 SGR 582.1 SG3 230.4
 RRT .6311 RRF -.7249 RTF -.8091
 SGB 1154.0 R23 -.1333 R13 -.8445
 SG1 1075.5 SG2 418.3 THA 24.11

ORBIT DETERMINATION ACCURACY

ST 321.9 SR 373.3 SS 48.3
 CRT .8275 CRS .1263 CST .1136
 LSA 471.7 MSA 144.5 SSA 43.6
 EL1 471.7 EL2 143.0 ALF 50.09

LAUNCH DATE FEB 6 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 247.796

RL 147.53 LAL .00 LOL 137.03 VL 27.259 GAL -4.12 AZL 89.42 HCA 110.18 SMA 125.66 ECC .18781 INC .5777 V1 30.201
 RP 108.53 LAP .54 LOP 247.21 VP 37.277 GAP -7.49 AZP 90.20 TAL 198.35 TAP 308.53 RCA 102.06 APO 149.26 V2 34.917
 RC 59.985 GL 4.18 GP 20.45 ZAL 126.52 ZAP 29.24 ETS 321.33 ZAE 143.34 ETE 25.11 ZAC 127.90 ETC 144.58 CLP -21.37

PLANETOCENTRIC CONIC

C3 14.161 VHL 3.763 CLA 7.96 RAL 7.90 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 5.815 DPA 34.03 RAP 35.80 ECC 1.2331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 30 2384.37 -23.29 52.53 225.90 106.57 2 29 15 1784.4 -20.80 44.75
 90.00 15 47 31 4529.84 10.47 190.60 223.00 63.54 17 3 0 3929.8 6.84 183.81
 100.00 3 14 41 2109.63 -24.29 31.99 225.56 107.98 3 49 51 1509.6 -21.61 24.22
 100.00 17 5 1 4279.81 11.41 171.73 222.52 62.18 18 16 21 3679.8 7.59 165.01
 110.00 4 31 42 1868.65 -26.95 12.62 224.49 111.87 5 2 50 1268.6 -23.74 4.93
 110.00 18 4 30 4093.56 13.86 156.16 221.08 58.44 19 12 43 3493.6 9.59 149.67

DIFFERENTIAL CORRECTIONS

TDE -.1729 TRA -.2917 TC3 1.1333 BAU .2470
 RDE -.2284 RRA .1239 RC3 .6463 FAU .06427
 FDE -.0617 FRA -.1337 FC3-3.9291 BSP 3452
 BDE .2865 BRA .3169 BC3 1.3046 FSP -729

MID-COURSE EXECUTION ACCURACY

SGT 999.0 SGR 627.5 SG3 256.2
 RRT .6716 RRF -.7763 RTF -.8119
 SGB 1179.7 R23 -.1496 R13 -.8564
 SG1 1101.8 SG2 421.6 THA 27.17

ORBIT DETERMINATION ACCURACY

ST 296.8 SR 352.7 SS 71.9
 CRT .8048 CRS -.5514 CST -.7238
 LSA 441.2 MSA 143.7 SSA 48.5
 EL1 438.6 EL2 141.6 ALF 51.08

LAUNCH DATE FEB 6 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.53 LAL .00 LOL 137.03 VL 27.352 GAL -4.18 AZL 89.61 HCA 113.36 SMA 126.26 ECC .18309 INC .3871 V1 30.201
 RP 108.57 LAP .36 LOP 250.39 VP 37.333 GAP -6.83 AZP 90.15 TAL 199.27 TAP 312.63 RCA 103.15 APO 149.38 V2 34.906
 RC 61.981 GL 2.85 GP 22.21 ZAL 127.87 ZAP 32.49 ETS 323.26 ZAE 142.86 ETE 28.27 ZAC 126.94 ETC 143.41 CLP -24.35

PLANETOCENTRIC CONIC

C3 13.747 VHL 3.708 CLA 6.23 RAL 7.24 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 5.512 DPA 35.72 RAP 35.16 ECC 1.2262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 0 14 2322.85 -22.04 48.46 224.26 108.24 2 38 56 1722.9 -19.34 40.82
 90.00 15 31 31 4578.34 11.93 193.42 222.02 64.13 16 47 49 3978.3 8.36 186.56
 100.00 3 24 32 2050.94 -23.00 28.10 223.90 109.63 3 58 43 1450.9 -20.12 20.50
 100.00 16 49 54 4325.48 12.84 174.36 221.55 62.77 18 1 59 3725.5 9.09 167.58
 110.00 4 39 33 1816.17 -25.57 9.17 222.78 113.50 5 9 49 1216.2 -22.17 1.66
 110.00 17 51 22 4133.02 15.26 158.37 220.17 59.03 19 0 15 3533.0 11.04 151.80

DIFFERENTIAL CORRECTIONS

TDE -.1509 TRA -.2782 TC3 1.1666 BAU .2569
 RDE -.2070 RRA .1298 RC3 .7700 FAU .07008
 FDE -.1401 FRA -.1730 FC3-4.4134 BSP 3580
 BDE .2562 BRA .3070 BC3 1.3978 FSP -821

MID-COURSE EXECUTION ACCURACY

SGT 994.9 SGR 684.9 SG3 284.3
 RRT .7064 RRF -.8224 RTF -.8138
 SGB 1207.8 R23 -.1624 R13 -.8708
 SG1 1129.9 SG2 426.9 THA 30.79

ORBIT DETERMINATION ACCURACY

ST 268.0 SR 326.1 SS 119.6
 CRT .7686 CRS -.7661 CST -.8677
 LSA 411.2 MSA 143.1 SSA 53.7
 EL1 398.0 EL2 140.5 ALF 52.20

LAUNCH DATE FEB 6 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.53 LAL .00 LOL 137.03 VL 27.433 GAL -4.23 AZL 89.81 HCA 116.54 SMA 126.80 ECC .17895 INC .1873 V1 30.201
 RP 108.60 LAP .17 LOP 253.57 VP 37.382 GAP -6.20 AZP 90.08 TAL 200.13 TAP 316.67 RCA 104.11 APO 149.49 V2 34.894
 RC 64.032 GL 1.40 GP 24.16 ZAL 129.07 ZAP 35.98 ETS 325.01 ZAE 142.43 ETE 31.82 ZAC 125.69 ETC 142.34 CLP -27.51

PLANETOCENTRIC CONIC

C3 13.410 VHL 3.662 CLA 4.44 RAL 6.74 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 5.238 DPA 37.51 RAP 34.21 ECC 1.2207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 11 50 2261.13 -20.67 44.45 222.90 109.80 2 49 31 1661.1 -17.79 36.96
 90.00 15 15 58 4629.22 13.42 196.41 221.32 64.83 16 33 7 4029.2 9.92 189.48
 100.00 3 35 15 1992.04 -21.60 24.29 222.53 111.18 4 8 27 1392.0 -18.53 16.84
 100.00 16 35 13 4373.54 14.32 177.16 220.87 63.48 17 48 7 3773.5 10.65 170.30
 110.00 4 48 17 1763.50 -24.10 5.78 221.37 115.01 5 17 40 1163.5 -20.53 358.46
 110.00 17 38 41 4174.85 16.71 160.74 219.54 59.74 18 48 16 3574.9 12.56 154.09

DIFFERENTIAL CORRECTIONS

TDE -.1303 TRA -.2693 TC3 1.1750 BAU .2663
 RDE -.1822 RRA .1357 RC3 .9091 FAU .07608
 FDE -.2326 FRA -.2085 FC3-4.9119 BSP 3677
 BDE .2240 BRA .3016 BC3 1.4856 FSP -916

MID-COURSE EXECUTION ACCURACY

SGT 980.2 SGR 755.0 SG3 313.7
 RRT .7312 RRF -.8615 RTF -.8102
 SGB 1237.2 R23 -.1742 R13 -.8841
 SG1 1157.9 SG2 436.0 THA 35.07

ORBIT DETERMINATION ACCURACY

ST 241.4 SR 292.8 SS 177.5
 CRT .7146 CRS -.8302 CST -.8857
 LSA 389.5 MSA 142.9 SSA 58.1
 EL1 352.7 EL2 140.2 ALF 52.60

LAUNCH DATE FEB 6 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 147.53 LAL .00 LOL 137.03 VL 27.504 GAL -4.28 AZL 90.02 HCA 119.71 SMA 127.27 ECC .17535 INC .0210 V1 30.201
 RP 108.64 LAP -.02 LOP 256.74 VP 37.424 GAP -5.60 AZP 89.99 TAL 200.91 TAP 320.62 RCA 104.96 APO 149.59 V2 34.883
 RC 66.131 GL -1.18 GP 26.30 ZAL 130.11 ZAP 39.70 ETS 326.67 ZAE 141.99 ETE 35.82 ZAC 124.15 ETC 141.41 CLP -30.87

PLANETOCENTRIC CONIC

C3 13.140 VHL 3.625 CLA 2.58 RAL 6.42 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 4.994 DPA 39.40 RAP 32.89 ECC 1.2162
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 24 27 2198.83 -19.18 40.49 221.84 111.24 3 1 5 1598.8 -16.13 33.14
 90.00 15 0 48 4682.69 14.95 199.59 220.93 65.67 16 18 50 4082.7 11.54 192.58
 100.00 3 46 59 1932.58 -20.09 20.52 221.45 112.61 4 19 12 1332.6 -16.86 13.22
 100.00 16 20 56 4424.18 15.84 180.15 220.50 64.31 17 34 40 3824.2 12.25 173.20
 110.00 4 58 0 1710.33 -22.53 2.45 220.26 116.42 5 26 30 1110.3 -18.80 355.31
 110.00 17 26 25 4219.19 18.21 163.30 219.20 60.56 18 36 44 3619.2 14.15 156.54

DIFFERENTIAL CORRECTIONS

TDE -.1111 TRA -.2639 TC3 1.1588 BAU .2765
 RDE -.1527 RRA .1416 RC3 1.0650 FAU .08217
 FDE -.3411 FRA -.2390 FC3-5.4142 BSP 3772
 BDE .1888 BRA .2995 BC3 1.5739 FSP -1014

MID-COURSE EXECUTION ACCURACY

SGT 954.5 SGR 839.4 SG3 343.9
 RRT .7457 RRF -.8935 RTF -.8016
 SGB 1271.1 R23 -.1803 R13 -.8984
 SG1 1189.2 SG2 448.9 THA 40.10

ORBIT DETERMINATION ACCURACY

ST 217.1 SR 251.6 SS 243.1
 CRT .6321 CRS -.8449 CST -.8656
 LSA 381.6 MSA 142.3 SSA 60.9
 EL1 301.2 EL2 140.6 ALF 51.59

LAUNCH DATE FEB 6 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 147.53 LAL .00 LOL 137.03 VL 27.566 GAL -4.32 AZL 90.25 HCA 122.88 SMA 127.69 ECC .17222 INC .2479 V1 30.201
 RP 108.67 LAP -.21 LOP 259.92 VP 37.459 GAP -5.01 AZP 89.87 TAL 201.60 TAP 324.49 RCA 105.70 APO 149.68 V2 34.873
 RC 68.274 GL -1.90 GP 28.66 ZAL 130.98 ZAP 43.65 ETS 328.31 ZAE 141.46 ETE 40.29 ZAC 122.31 ETC 140.66 CLP -34.45

PLANETOCENTRIC CONIC

C3 12.931 VHL 3.596 CLA .65 RAL 6.28 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 4.781 DPA 41.38 RAP 31.15 ECC 1.2128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 38 14 2135.45 -17.57 36.53 221.07 112.57 3 13 49 1535.5 -14.36 29.33
 90.00 14 45 54 4739.17 16.50 203.01 220.85 66.66 16 4 53 4139.2 13.20 195.89
 100.00 3 59 52 1872.10 -18.47 16.76 220.67 113.93 4 31 5 1272.1 -15.08 9.61
 100.00 16 6 56 4477.76 17.39 183.37 220.43 65.30 17 21 34 3877.8 13.92 176.31
 110.00 5 8 49 1656.31 -20.85 359.16 219.44 117.72 5 36 25 1056.3 -16.98 352.17
 110.00 17 14 29 4266.31 19.76 166.07 219.18 61.52 18 25 36 3666.3 15.81 159.19

DIFFERENTIAL CORRECTIONS

TDE -.0933 TRA -.2617 TC3 1.1165 BAU .2882
 RDE -.1171 RRA .1472 RC3 1.2382 FAU .08816
 FDE -.4674 FRA -.2628 FC3-5.9023 BSP 3897
 BDE .1497 BRA .3002 BC3 1.6672 FSP -1114

MID-COURSE EXECUTION ACCURACY

SGT 916.9 SGR 939.6 SG3 374.1
 RRT .7487 RRF -.9191 RTF -.7867
 SGB 1312.8 R23 -.1769 R13 -.9141
 SG1 1227.6 SG2 465.2 THA 45.93

ORBIT DETERMINATION ACCURACY

ST 195.8 SR 201.2 SS 316.4
 CRT .4972 CRS -.8224 CST -.8227
 LSA 394.3 MSA 140.8 SSA 60.5
 EL1 243.0 EL2 140.7 ALF 46.59

LAUNCH DATE FEB 6 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 280.680

RL 147.53 LAL .00 LOL 137.03 VL 27.619 GAL -4.35 AZL 90.49 MCA 126.05 SMA 128.05 ECC .16952 INC .4895 V1 30.201
 RP 108.70 LAP -.40 LOP 263.09 VP 37.489 GAP -4.46 AZP 89.71 TAL 202.21 TAP 328.26 RCA 106.34 APO 149.76 V2 34.862
 RC 70.456 GL -3.77 GP 31.22 ZAL 131.65 ZAP 47.83 ETS 330.01 ZAE 140.77 ETE 45.21 ZAC 120.15 ETC 140.13 CLP -38.27

PLANETOCENTRIC CONIC

C3 12.781 VHL 3.575 CLA -1.37 RAL 6.33 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 4.602 CPA 43.43 RAP 28.94 ECC 1.2103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 53 24 2070.36 -15.83 32.55 220.62 113.79 3 27 54 1470.4 -12.48 25.48
 90.00 14 31 8 4799.25 18.09 206.71 221.10 67.83 15 51 7 4199.3 14.92 199.46
 100.00 4 14 6 1810.02 -16.71 12.99 220.20 115.15 4 44 16 1210.0 -13.19 5.97
 100.00 15 53 7 4534.82 18.98 186.87 220.70 66.46 17 8 42 3934.8 15.64 179.67
 110.00 5 20 53 1600.96 -19.07 355.86 218.94 118.92 5 47 34 1001.0 -15.06 349.03
 110.00 17 2 49 4316.64 21.37 169.10 219.49 62.66 18 14 46 3716.6 17.53 162.06

DIFFERENTIAL CORRECTIONS

TDE -.0774 TRA -.2617 TC3 1.0478 BAU .3028
 RDE -.0734 RRA .1521 RC3 1.4293 FAU .09386
 FDE -.6138 FRA -.2786 FC3-6.3578 BSP 4087
 BDE .1067 BRA .3027 BC3 1.7723 FSP -1217

MID-COURSE EXECUTION ACCURACY

SGT 867.6 SGR 1057.2 SG3 403.7
 RRT .7391 RRF -.9391 RTF -.7638
 SGB 1367.7 R23 -.1614 R13 -.9309
 SG1 1279.6 SG2 482.9 THA 52.53

ORBIT DETERMINATION ACCURACY

ST 178.1 SR 141.9 SS 398.5
 CRT .2403 CRS -.7157 CST -.7607
 LSA 433.8 MSA 138.9 SSA 56.2
 EL1 185.3 EL2 132.5 ALF 23.20

LAUNCH DATE FEB 6 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 287.181

RL 147.53 LAL .00 LOL 137.03 VL 27.664 GAL -4.36 AZL 90.75 MCA 129.22 SMA 128.36 ECC .16720 INC .7509 V1 30.201
 RP 108.73 LAP -.58 LOP 266.26 VP 37.513 GAP -3.92 AZP 89.53 TAL 202.71 TAP 331.93 RCA 106.90 APO 149.82 V2 34.853
 RC 72.672 GL -5.82 GP 33.99 ZAL 132.11 ZAP 52.20 ETS 331.85 ZAE 139.85 ETE 50.55 ZAC 117.71 ETC 139.84 CLP -42.34

PLANETOCENTRIC CONIC

C3 12.690 VHL 3.562 CLA -3.50 RAL 6.59 RAD 6567.5 VEL 11.579 PTH 2.02 VHP 4.459 CPA 45.54 RAP 26.21 ECC 1.2088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 10 13 2002.78 -13.93 28.50 220.50 114.90 3 43 36 1402.8 -10.46 21.54
 90.00 14 16 19 4863.76 19.69 210.76 221.70 69.23 15 37 23 4263.8 16.69 203.37
 100.00 4 29 56 1745.65 -14.81 9.16 220.07 116.27 4 59 1 1145.7 -11.16 2.26
 100.00 15 39 18 4596.12 20.60 190.70 221.32 67.85 16 55 54 3996.1 17.42 183.35
 110.00 5 34 25 1543.74 -17.15 352.53 218.77 120.03 6 0 9 943.7 -13.03 345.84
 110.00 16 51 17 4370.79 23.02 172.43 220.16 64.01 18 4 8 3770.8 19.34 165.23

DIFFERENTIAL CORRECTIONS

TDE -.0678 TRA -.2667 TC3 .9415 BAU .3196
 RDE -.0213 RRA .1542 RC3 1.6319 FAU .09864
 FDE -.7724 FRA -.2772 FC3-6.7298 BSP 4284
 BDE .0711 BRA .3081 BC3 1.8840 FSP -1306

MID-COURSE EXECUTION ACCURACY

SGT 804.1 SGR 1189.4 SG3 429.7
 RRT .7077 RRF -.9540 RTF -.7224
 SGB 1435.7 R23 -.1374 R13 -.9464
 SG1 1344.9 SG2 502.4 THA 59.79

ORBIT DETERMINATION ACCURACY

ST 170.0 SR 89.2 SS 484.6
 CRT -.3408 CRS -.2463 CST -.7005
 LSA 500.2 MSA 137.9 SSA 49.4
 EL1 173.6 EL2 82.1 ALF 166.88

LAUNCH DATE FEB 6 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 293.654

RL 147.53 LAL .00 LOL 137.03 VL 27.702 GAL -4.37 AZL 91.04 MCA 132.39 SMA 128.62 ECC .16521 INC 1.0368 V1 30.201
 RP 108.76 LAP -.77 LOP 269.42 VP 37.533 GAP -3.41 AZP 89.30 TAL 203.12 TAP 335.51 RCA 107.37 APO 149.87 V2 34.844
 RC 74.919 GL -8.08 GP 36.94 ZAL 132.33 ZAP 56.74 ETS 333.89 ZAE 138.62 ETE 56.22 ZAC 114.99 ETC 139.84 CLP -46.66

PLANETOCENTRIC CONIC

C3 12.662 VHL 3.558 CLA -5.75 RAL 7.05 RAD 6567.5 VEL 11.578 PTH -2.02 VHP 4.355 CPA 47.66 RAP 22.91 ECC 1.2084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 29 3 1931.74 -11.85 24.31 220.74 115.90 4 1 15 1331.7 -8.27 17.46
 90.00 14 1 11 4933.85 21.32 215.26 222.70 70.91 15 23 25 4333.9 18.52 207.70
 100.00 4 47 40 1678.11 -12.74 5.21 220.29 117.27 5 15 39 1078.1 -8.98 358.43
 100.00 15 25 15 4662.71 22.25 194.96 222.34 69.51 16 42 58 4062.7 19.26 187.44
 110.00 5 49 41 1483.96 -15.08 349.13 218.95 121.05 6 14 25 884.0 -10.85 342.57
 110.00 16 39 44 4429.64 24.73 176.15 221.22 65.61 17 53 33 3829.6 21.23 168.75

DIFFERENTIAL CORRECTIONS

TDE -.0635 TRA -.2734 TC3 .8038 BAU .3406
 RDE .0427 RRA .1536 RC3 1.8448 FAU .10236
 FDE -.9473 FRA -.2619 FC3-6.9988 BSP 4576
 BDE .0765 BRA .3136 BC3 2.0123 FSP -1388

MID-COURSE EXECUTION ACCURACY

SGT 730.4 SGR 1338.0 SG3 451.6
 RRT .6488 RRF -.9652 RTF -.6565
 SGB 1524.4 R23 -.1047 R13 -.9603
 SG1 1433.3 SG2 518.8 THA 67.37

ORBIT DETERMINATION ACCURACY

ST 168.4 SR 108.8 SS 578.7
 CRT -.8868 CRS .7188 CST -.6571
 LSA 595.2 MSA 138.0 SSA 41.4
 EL1 195.8 EL2 43.3 ALF 148.47

LAUNCH DATE FEB 6 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 300.101

RL 147.53 LAL .00 LOL 137.03 VL 27.733 GAL -4.37 AZL 91.35 MCA 135.55 SMA 128.84 ECC .16353 INC 1.3530 V1 30.201
 RP 108.78 LAP -.95 LOP 272.59 VP 37.548 GAP -2.91 AZP 89.03 TAL 203.43 TAP 338.98 RCA 107.77 APO 149.90 V2 34.835
 RC 77.194 GL -10.55 GP 40.07 ZAL 132.28 ZAP 61.38 ETS 336.21 ZAE 137.03 ETE 62.12 ZAC 112.04 ETC 140.15 CLP -51.25

PLANETOCENTRIC CONIC

C3 12.707 VHL 3.565 CLA -8.15 RAL 7.74 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 4.293 CPA 49.76 RAP 19.03 ECC 1.2091
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 50 23 1856.01 -9.57 19.93 221.39 116.78 4 21 19 1256.0 -5.90 13.17
 90.00 13 45 24 5011.10 22.95 220.33 224.14 72.95 15 8 55 4411.1 20.40 212.59
 100.00 5 7 47 1606.30 -10.46 1.09 220.91 118.16 5 34 33 1006.3 -6.62 354.42
 100.00 15 10 41 4736.04 23.92 199.77 223.80 71.51 16 29 37 4136.0 21.17 192.05
 110.00 6 7 2 1420.78 -12.83 345.62 219.52 121.96 6 30 43 820.8 -8.52 339.18
 110.00 16 27 55 4494.33 26.48 180.36 222.74 67.55 17 42 49 3894.3 23.20 172.73

DIFFERENTIAL CORRECTIONS

TDE -.0703 TRA -.2841 TC3 .6250 BAU .3647
 RDE .1184 RRA .1465 RC3 2.0539 FAU .10424
 FDE -1.1236 FRA -.2220 FC3-7.1021 BSP 4892
 BDE .1377 BRA .3197 BC3 2.1469 FSP -1438

MID-COURSE EXECUTION ACCURACY

SGT 651.3 SGR 1495.6 SG3 465.5
 RRT .5351 RRF -.9734 RTF -.5374
 SGB 1631.3 R23 -.0701 R13 -.9710
 SG1 1541.5 SG2 533.8 THA 75.05

ORBIT DETERMINATION ACCURACY

ST 179.2 SR 207.9 SS 673.4
 CRT -.8266 CRS .9485 CST -.6672
 LSA 712.9 MSA 139.4 SSA 34.0
 EL1 262.6 EL2 79.8 ALF 129.88

LAUNCH DATE FEB 6 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.757 GAL -4.36 AZL 91.71 HCA 138.71 SMA 129.01 ECC .16210 INC 1.7068 V1 30.201
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.559 GAP -2.44 AZP 88.72 TAL 203.63 TAP 342.34 RCA 108.09 APO 149.92 V2 34.827
 RC 79.493 GL -13.30 GP 43.32 ZAL 131.95 ZAP 66.06 ETS 338.87 ZAE 135.03 ETE 68.12 ZAC 108.90 ETC 140.79 CLP -56.10

PLANETOCENTRIC CONIC
 C3 12.842 VHL 3.584 CLA -10.74 RAL 8.69 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 4.277 DPA 51.80 RAP 14.55 ECC 1.2113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 52 1773.94 -7.01 15.25 222.50 117.50 4 44 26 1173.9 -3.28 8.56
 90.00 13 28 26 5097.71 24.56 226.17 226.08 75.45 14 53 24 4497.7 22.32 218.21
 100.00 5 30 51 1528.82 -7.94 356.72 222.00 118.91 5 56 20 928.8 -4.02 350.13
 100.00 14 55 8 4818.06 25.58 205.30 225.78 73.97 16 15 26 4218.1 23.13 197.35
 110.00 6 26 56 1353.20 -10.37 341.93 220.54 122.76 6 49 29 753.2 -5.98 335.59
 110.00 16 15 33 4566.44 28.26 185.21 224.79 69.92 17 31 39 3966.4 25.26 177.31

DIFFERENTIAL CORRECTIONS
 TDE -.0896 TRA -.2956 TC3 .4124 BAU .3927
 RDE .2089 RRA .1320 RC3 2.2499 FAU .10409
 FDE -1.2996 FRA -.1616 FC3 -7.0173 BSP 5287
 BDE .2273 BRA .3237 BC3 2.2874 FSP -1463

MID-COURSE EXECUTION ACCURACY
 SGT 582.4 SGR 1660.7 SG3 470.7
 RRT .3364 RRF -.9793 RTF -.3348
 SGB 1759.9 R23 -.0364 R13 -.9787
 SG1 1673.6 SG2 544.3 THA 82.47

ORBIT DETERMINATION ACCURACY
 ST 203.5 SR 343.7 SS 770.5
 CRT -.8109 CRS .9862 CST -.7250
 LSA 855.7 MSA 141.6 SSA 27.5
 EL1 385.0 EL2 106.3 ALF 117.97

LAUNCH DATE FEB 6 1969

FLIGHT TIME 112.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.776 GAL -4.34 AZL 92.11 HCA 141.87 SMA 129.14 ECC .16091 INC 2.1079 V1 30.201
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.566 GAP -1.98 AZP 88.34 TAL 203.74 TAP 345.61 RCA 108.36 APO 149.92 V2 34.820
 RC 81.813 GL -16.35 GP 46.68 ZAL 131.28 ZAP 70.70 ETS 341.91 ZAE 132.61 ETE 74.08 ZAC 105.63 ETC 141.76 CLP -61.19

PLANETOCENTRIC CONIC
 C3 13.094 VHL 3.619 CLA -13.55 RAL 9.91 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 4.313 DPA 53.73 RAP 9.48 ECC 1.2155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 30 1683.20 -4.13 10.13 224.19 118.04 5 11 33 1083.2 -3.35 3.50
 90.00 13 9 33 5196.82 26.08 233.03 228.62 78.56 14 36 10 4596.8 24.24 224.84
 100.00 5 57 44 1443.69 -5.11 351.99 223.65 119.49 6 21 48 843.7 -1.15 345.45
 100.00 14 38 0 4911.56 27.17 211.78 228.36 77.03 15 59 52 4311.6 25.11 203.59
 110.00 6 50 1 1279.96 -7.64 338.01 222.09 123.42 7 11 21 680.0 -3.20 331.74
 110.00 16 2 13 4648.06 30.04 190.90 227.48 72.86 17 19 41 4048.1 27.40 182.70

DIFFERENTIAL CORRECTIONS
 TDE -.1245 TRA -.3053 TC3 .1731 BAU .4248
 RDE .3176 RRA .1087 RC3 2.4204 FAU .10180
 FDE -1.4700 FRA -.0846 FC3 -6.7306 BSP 5784
 BDE .3411 BRA .3241 BC3 2.4265 FSP -1462

MID-COURSE EXECUTION ACCURACY
 SGT 549.4 SGR 1830.9 SG3 466.6
 RRT .0321 RRF -.9837 RTF -.0279
 SGB 1911.6 R23 -.0068 R13 -.9837
 SG1 1831.0 SG2 549.1 THA 89.39

ORBIT DETERMINATION ACCURACY
 ST 247.3 SR 508.3 SS 869.1
 CRT -.8502 CRS .9954 CST -.8054
 LSA 1026.5 MSA 144.1 SSA 22.1
 EL1 552.5 EL2 119.8 ALF 113.65

LAUNCH DATE FEB 6 1969

FLIGHT TIME 114.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.790 GAL -4.31 AZL 92.57 HCA 145.02 SMA 129.23 ECC .15993 INC 2.5692 V1 30.201
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.570 GAP -1.54 AZP 87.89 TAL 203.74 TAP 348.77 RCA 108.57 APO 149.90 V2 34.813
 RC 84.153 GL -19.76 GP 50.12 ZAL 130.23 ZAP 75.18 ETS 345.38 ZAE 129.80 ETE 79.92 ZAC 102.29 ETC 143.07 CLP -66.50

PLANETOCENTRIC CONIC
 C3 13.507 VHL 3.675 CLA -16.61 RAL 11.45 RAD 6567.5 VEL 11.614 PTH 2.04 VHP 4.406 DPA 55.53 RAP 3.86 ECC 1.2223
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 48 1580.20 -.82 4.38 226.60 118.31 5 44 8 980.2 2.97 357.75
 90.00 12 47 33 5313.28 27.39 241.30 231.87 82.51 14 16 6 4713.3 26.07 232.88
 100.00 6 29 44 1348.06 -1.89 346.72 226.01 119.84 6 52 12 748.1 2.10 340.20
 100.00 14 18 17 5020.65 28.60 219.58 231.67 80.90 15 41 58 4420.7 27.04 211.12
 110.00 7 17 12 1199.35 -4.60 333.75 224.32 123.91 7 37 12 599.4 -.12 327.54
 110.00 15 47 18 4742.13 31.73 197.70 230.94 76.56 17 6 20 4142.1 29.55 189.17

DIFFERENTIAL CORRECTIONS
 TDE -.1822 TRA -.3123 TC3 -.0891 BAU .4584
 RDE .4434 RRA .0709 RC3 2.5370 FAU .09687
 FDE -1.6164 FRA .0139 FC3 -6.2092 BSP 6299
 BDE .4794 BRA .3203 BC3 2.5385 FSP -1417

MID-COURSE EXECUTION ACCURACY
 SGT 585.8 SGR 1992.1 SG3 450.4
 RRT -.3232 RRF -.9869 RTF .3286
 SGB 2076.4 R23 .0179 R13 -.9868
 SG1 2001.8 SG2 551.7 THA 95.88

ORBIT DETERMINATION ACCURACY
 ST 322.4 SR 634.4 SS 960.7
 CRT -.9013 CRS .9983 CST -.8789
 LSA 1219.4 MSA 147.4 SSA 17.7
 EL1 754.7 EL2 128.5 ALF 113.43

LAUNCH DATE FEB 6 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.799 GAL -4.27 AZL 93.11 HCA 148.18 SMA 129.30 ECC .15913 INC 3.1093 V1 30.201
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.571 GAP -1.12 AZP 87.36 TAL 203.65 TAP 351.83 RCA 108.72 APO 149.87 V2 34.807
 RC 86.508 GL -23.56 GP 53.61 ZAL 128.75 ZAP 79.43 ETS 349.29 ZAE 126.63 ETE 85.56 ZAC 98.95 ETC 144.70 CLP -71.99

PLANETOCENTRIC CONIC
 C3 14.149 VHL 3.762 CLA -19.97 RAL 13.36 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 4.566 DPA 57.19 RAP 357.73 ECC 1.2329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 27 1458.34 3.11 357.58 229.98 118.16 6 24 45 858.3 6.85 350.00
 90.00 12 20 6 5455.52 28.22 251.62 235.90 87.61 13 51 2 4855.5 27.59 243.01
 100.00 7 9 2 1237.03 1.88 340.63 229.30 119.84 7 29 39 637.0 5.83 334.08
 100.00 13 54 13 5152.06 29.63 229.20 235.81 85.86 15 20 5 4552.1 28.74 220.51
 110.00 7 49 54 1108.95 -1.15 329.02 227.41 124.17 8 8 23 508.9 3.34 322.82
 110.00 15 29 50 4852.91 33.18 206.01 235.34 81.27 16 50 43 4252.9 31.62 197.13

DIFFERENTIAL CORRECTIONS
 TDE -.2673 TRA -.3111 TC3 -.3534 BAU .4941
 RDE .5926 RRA .0193 RC3 2.5882 FAU .08986
 FDE -1.7408 FRA .1191 FC3 -5.4979 BSP 6903
 BDE .6501 BRA .3117 BC3 2.6122 FSP -1345

MID-COURSE EXECUTION ACCURACY
 SGT 700.5 SGR 2146.3 SG3 424.8
 RRT -.5992 RRF -.9893 RTF .6044
 SGB 2257.8 R23 .0373 R13 -.9887
 SG1 2189.8 SG2 549.7 THA 101.82

ORBIT DETERMINATION ACCURACY
 ST 434.5 SR 904.5 SS 1047.5
 CRT -.9400 CRS .9993 CST -.9293
 LSA 1442.7 MSA 150.3 SSA 14.1
 EL1 994.3 EL2 134.8 ALF 114.79

LAUNCH DATE FEB 6 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 331.932

RL 147.53 LAL .00 LOL 137.03 VL 27.803 GAL -4.22 AZL 93.75 HCA 151.32 SMA 129.33 ECC .15850 INC 3.7544 V1 30.201
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.569 GAP -1.71 AZP 86.71 TAL 203.46 TAP 354.79 RCA 108.83 APO 149.82 V2 34.802
 RC 88.877 GL -27.82 GP 57.16 ZAL 126.80 ZAP 83.32 ETS 353.66 ZAE 123.12 ETE 90.97 ZAC 95.64 ETC 146.64 CLP -77.62

PLANETOCENTRIC CONIC

C3 15.135 VHL 3.890 CLA -23.65 RAL 15.70 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 4.808 CPA 58.70 RAP 351.12 ECC 1.2491
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 57 31 1301.57 8.08 348.74 234.80 117.23 7 19 12 701.6 11.67 341.90
 90.00 11 41 46 5642.23 28.00 265.25 240.70 94.43 13 15 48 5042.2 28.32 256.60
 100.00 7 59 56 1100.06 6.48 333.07 233.93 119.24 8 18 16 500.1 10.33 326.40
 100.00 13 22 1 5318.97 29.81 241.59 240.82 92.37 14 50 40 4719.0 29.82 232.79
 110.00 8 30 23 1004.59 2.84 323.58 231.68 124.08 8 47 8 404.6 7.29 317.32
 110.00 15 8 4 4987.21 34.09 216.38 240.81 87.34 16 31 11 4387.2 33.35 207.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3901 TRA -.2981 TC3 -.6033 BAU .5285 SGT 883.2 SGR 2277.0 SG3 388.9 ST 592.4 SR 1127.5 SS 1119.4
 RDE .7643 RRA -.0536 RC3 2.5415 FAU .08064 RRT -.7626 RRF -.9911 RTF .7674 CRT -.9639 CRS .9997 CST -.9590
 FDE-1.8266 FRA .2332 FC3-4.6128 BSP 7492 SGB 2442.3 R23 .0534 R13 -.9898 LSA 1688.6 MSA 153.7 SSA 11.1
 BDE .8581 BRA .3028 BC3 2.6121 FSP -1234 SG1 2380.4 SG2 546.6 THA 107.43 EL1 1265.9 EL2 140.5 ALF 117.22

LAUNCH DATE FEB 6 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 338.216

RL 147.53 LAL .00 LOL 137.03 VL 27.803 GAL -4.16 AZL 94.54 HCA 154.47 SMA 129.33 ECC .15801 INC 4.5433 V1 30.201
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.564 GAP -.32 AZP 85.90 TAL 203.18 TAP 357.65 RCA 108.89 APO 149.76 V2 34.797
 RC 91.256 GL -32.56 GP 60.80 ZAL 124.32 ZAP 86.77 ETS 358.51 ZAE 119.32 ETE 96.19 ZAC 92.41 ETC 148.90 CLP -83.38

PLANETOCENTRIC CONIC

C3 16.655 VHL 4.081 CLA -27.66 RAL 18.58 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 5.152 CPA 60.08 RAP 344.02 ECC 1.2741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 37 47 1023.18 16.27 332.40 242.42 113.50 8 54 50 423.2 19.31 325.04
 90.00 10 24 26 676.00 24.21 310.07 245.39 105.15 10 35 42 76.0 26.06 301.89
 100.00 9 15 49 900.24 12.94 321.75 240.80 117.18 9 30 49 300.2 16.48 314.75
 100.00 12 29 5 5562.20 27.79 259.35 246.33 101.48 14 1 48 4962.2 29.09 250.79
 110.00 9 23 13 876.99 7.67 316.86 237.67 123.41 9 37 50 277.0 12.01 310.46
 110.00 14 38 11 5158.22 33.83 229.71 247.36 95.21 16 4 9 4558.2 34.18 220.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5619 TRA -.2648 TC3 -.8087 BAU .5612 SGT 1111.0 SGR 2385.0 SG3 346.1 ST 799.1 SR 1358.2 SS 1174.7
 RDE .9652 RRA -.1492 RC3 2.3870 FAU .06999 RRT -.8513 RRF -.9925 RTF .8559 CRT -.9778 CRS .9999 CST -.9759
 FDE-1.8751 FRA .3426 FC3-3.6381 BSP 8109 SGB 2631.0 R23 .0658 R13 -.9906 LSA 1959.3 MSA 156.5 SSA 8.8
 BDE 1.1168 BRA .3040 BC3 2.5202 FSP -1101 SG1 2575.0 SG2 539.8 THA 112.68 EL1 1569.2 EL2 145.1 ALF 120.19

LAUNCH DATE FEB 6 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 344.472

RL 147.53 LAL .00 LOL 137.03 VL 27.799 GAL -4.09 AZL 95.54 HCA 157.60 SMA 129.30 ECC .15765 INC 5.5366 V1 30.201
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.558 GAP .06 AZP 84.88 TAL 202.81 TAP .41 RCA 108.92 APO 149.68 V2 34.793
 RC 93.644 GL -37.80 GP 64.56 ZAL 121.27 ZAP 89.69 ETS 33.89 ZAE 115.22 ETE 101.31 ZAC 89.25 ETC 151.54 CLP -89.28

PLANETOCENTRIC CONIC

C3 19.050 VHL 4.365 CLA -31.98 RAL 22.11 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 5.633 CPA 61.35 RAP 336.32 ECC 1.3135
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.47 7 43 59 1269.22 22.34 353.36 250.93 113.50 8 5 8 669.2 25.33 345.66
 105.53 11 46 23 5780.53 22.36 273.75 250.93 113.49 13 22 43 5180.5 25.34 266.05
 74.47 7 43 59 1269.22 22.34 353.36 250.93 113.50 8 5 8 669.2 25.33 345.66
 105.53 11 46 23 5780.53 22.36 273.75 250.93 113.49 13 22 43 5180.5 25.34 266.05
 110.00 10 42 25 690.97 14.47 306.74 246.63 121.31 10 53 56 91.0 18.51 299.96
 110.00 13 47 7 5406.77 30.71 248.38 254.26 105.81 15 17 14 4806.8 32.57 239.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8013 TRA -.2002 TC3 -.9407 BAU .5893 SGT 1369.9 SGR 2462.0 SG3 298.5 ST 1056.2 SR 1579.8 SS 1206.3
 RDE 1.1988 RRA -.2740 RC3 2.1139 FAU .05840 RRT -.9011 RRF -.9937 RTF .9060 CRT -.9857 CRS 1.0000 CST -.9854
 FDE-1.8810 FRA .4425 FC3-2.6537 BSP 8725 SGB 2817.5 R23 .0750 R13 -.9912 LSA 2245.3 MSA 158.1 SSA 6.8
 BDE 1.4419 BRA .3394 BC3 2.3138 FSP -951 SG1 2767.5 SG2 528.5 THA 117.73 EL1 1894.6 EL2 148.3 ALF 123.62

LAUNCH DATE FEB 6 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 350.696

RL 147.53 LAL .00 LOL 137.03 VL 27.792 GAL -4.01 AZL 96.83 HCA 160.73 SMA 129.25 ECC .15740 INC 6.8340 V1 30.201
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.549 GAP .42 AZP 83.55 TAL 202.34 TAP 3.08 RCA 108.91 APO 149.59 V2 34.789
 RC 96.038 GL -43.50 GP 68.55 ZAL 117.65 ZAP 92.00 ETS 9.95 ZAE 110.81 ETE 106.54 ZAC 86.14 ETC 154.75 CLP -95.47

PLANETOCENTRIC CONIC

C3 22.972 VHL 4.793 CLA -36.52 RAL 26.44 RAD 6567.9 VEL 12.015 PTH 2.14 VHP 6.309 CPA 62.48 RAP 327.81 ECC 1.3781
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.91 7 9 40 1471.54 23.85 9.95 259.76 118.51 7 34 11 871.5 27.46 2.44
 114.09 12 55 17 5667.99 23.87 265.78 259.77 118.50 14 29 45 5068.0 27.48 258.27
 65.91 7 9 40 1471.54 23.85 9.95 259.76 118.51 7 34 11 871.5 27.46 2.44
 114.09 12 55 17 5667.99 23.87 265.78 259.77 118.50 14 29 45 5068.0 27.48 258.27
 65.91 7 9 40 1471.54 23.85 9.95 259.76 118.51 7 34 11 871.5 27.46 2.44
 114.09 12 55 17 5667.99 23.87 265.78 259.77 118.50 14 29 45 5068.0 27.48 258.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1398 TRA -.0860 TC3 -.9750 BAU .6099 SGT 1657.2 SGR 2500.2 SG3 248.8 ST 1363.4 SR 1767.4 SS 1208.8
 RDE 1.4689 RRA -.4344 RC3 1.7300 FAU .04650 RRT -.9316 RRF -.9947 RTF .9373 CRT -.9905 CRS 1.0000 CST -.9910
 FDE-1.8442 FRA .5263 FC3-1.7524 BSP 9336 SGB 2999.6 R23 .0807 R13 -.9919 LSA 2533.5 MSA 157.4 SSA 5.3
 BDE 1.8592 BRA .4428 BC3 1.9858 FSP -793 SG1 2956.0 SG2 509.6 THA 122.79 EL1 2227.1 EL2 149.1 ALF 127.58

LAUNCH DATE FEB 6 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 356.886

RL 147.53 LAL .00 LOL 137.03 VL 27.782 GAL -3.91 AZL 98.61 HCA 163.85 SMA 129.18 ECC .15726 INC 8.6107 V1 30.201
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.539 GAP .77 AZP 81.72 TAL 201.79 TAP 5.64 RCA 108.86 APO 149.49 V2 34.787
 RC 98.436 GL -49.51 GP 72.86 ZAL 113.52 ZAP 93.62 ETS 17.12 ZAE 106.02 ETE 112.42 ZAC 83.02 ETC 159.01 CLP-102.37

PLANETOCENTRIC CONIC

C3 29.772 VHL 5.456 CLA -41.06 RAL 31.76 RAD 6568.2 VEL 12.294 PTH 2.21 VHP 7.287 DPA 63.39 RAP 318.15 ECC 1.4900
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.92 6 57 0 1633.04 24.11 23.53 270.84 124.31 7 24 13 1033.0 28.43 16.43
 121.08 13 50 22 5634.80 24.12 263.19 270.85 124.30 15 24 17 5034.8 28.44 256.10
 58.92 6 57 0 1633.04 24.11 23.53 270.84 124.31 7 24 13 1033.0 28.43 16.43
 121.08 13 50 22 5634.80 24.12 263.19 270.85 124.30 15 24 17 5034.8 28.44 256.10
 58.92 6 57 0 1633.04 24.11 23.53 270.84 124.31 7 24 13 1033.0 28.43 16.43
 121.08 13 50 22 5634.80 24.12 263.19 270.85 124.30 15 24 17 5034.8 28.44 256.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.6340 TRA .1156 TC3 -.8981 BAU .6166 SGT 1982.5 SGR 2477.2 SG3 199.8 ST 1716.8 SR 1875.7 SS 1178.1
 RDE 1.7676 RRA -.6399 RC3 1.2622 FAU .03486 RRT -.9526 RRF -.9956 RTF .9597 CRT -.9934 CRS .9999 CST -.9945
 FDE-1.7660 FRA .5934 FC3-1.0136 BSP 9934 SGB 3172.9 R23 .0818 R13 -.9929 LSA 2798.3 MSA 152.3 SSA 4.0
 BDE 2.4072 BRA .6503 BC3 1.5491 FSP -638 SG1 3136.9 SG2 476.5 THA 128.37 EL1 2538.6 EL2 145.5 ALF 132.45

LAUNCH DATE FEB 6 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 363.032

RL 147.53 LAL .00 LOL 137.03 VL 27.769 GAL -3.80 AZL 101.21 HCA 166.94 SMA 129.09 ECC .15719 INC11.2057 V1 30.201
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.528 GAP 1.09 AZP 79.08 TAL 201.14 TAP 8.08 RCA 108.79 APO 149.38 V2 34.785
 RC 100.837 GL -55.57 GP 77.66 ZAL 108.98 ZAP 94.50 ETS 26.74 ZAE 100.67 ETE 120.40 ZAC 79.73 ETC 165.78 CLP-111.55

PLANETOCENTRIC CONIC

C3 42.621 VHL 6.528 CLA -45.25 RAL 38.20 RAD 6568.6 VEL 12.806 PTH 2.33 VHP 8.772 DPA 63.85 RAP 306.86 ECC 1.7014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.10 6 59 4 1787.00 22.29 35.73 284.20 130.46 7 28 51 1187.0 27.34 29.30
 126.90 14 39 39 5661.80 22.31 264.09 284.21 130.45 16 14 1 5061.8 27.35 257.66
 53.10 6 59 4 1787.00 22.29 35.73 284.20 130.46 7 28 51 1187.0 27.34 29.30
 126.90 14 39 39 5661.80 22.31 264.09 284.21 130.45 16 14 1 5061.8 27.35 257.66
 53.10 6 59 4 1787.00 22.29 35.73 284.20 130.46 7 28 51 1187.0 27.34 29.30
 126.90 14 39 39 5661.80 22.31 264.09 284.21 130.45 16 14 1 5061.8 27.35 257.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-2.4075 TRA .4951 TC3 -.7179 BAU .5946 SGT 2392.5 SGR 2319.1 SG3 153.7 ST 2121.2 SR 1812.5 SS 1115.9
 RDE 2.0299 RRA -.8884 RC3 .7574 FAU .02386 RRT -.9687 RRF -.9961 RTF .9776 CRT -.9953 CRS .9998 CST -.9969
 FDE-1.6544 FRA .6498 FC3 -.4846 BSP 10439 SGB 3332.0 R23 .0778 R13 -.9944 LSA 3001.7 MSA 139.1 SSA 2.9
 BDE 3.1491 BRA 1.0171 BC3 1.0435 FSP -489 SG1 3305.9 SG2 416.7 THA 135.92 EL1 2786.9 EL2 133.6 ALF 139.51

LAUNCH DATE FEB 6 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 369.113

RL 147.53 LAL .00 LOL 137.03 VL 27.753 GAL -3.67 AZL 105.36 HCA 169.99 SMA 128.97 ECC .15717 INC15.3624 V1 30.201
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.515 GAP 1.40 AZP 74.86 TAL 200.37 TAP 10.36 RCA 108.70 APO 149.25 V2 34.784
 RC 103.240 GL -61.07 GP 83.00 ZAL 104.22 ZAP 94.62 ETS 44.27 ZAE 94.42 ETE 136.10 ZAC 75.97 ETC 180.69 CLP-131.30

PLANETOCENTRIC CONIC

C3 70.281 VHL 8.383 CLA -48.44 RAL 45.64 RAD 6569.4 VEL 13.843 PTH 2.53 VHP 11.222 DPA 63.35 RAP 293.46 ECC 2.1566
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.90 7 13 48 1947.66 17.66 46.39 299.23 135.88 7 46 16 1347.7 23.30 40.76
 131.10 15 24 19 5747.08 17.67 267.57 299.25 135.88 17 0 6 5147.1 23.32 261.93
 48.90 7 13 48 1947.66 17.66 46.39 299.23 135.88 7 46 16 1347.7 23.30 40.76
 131.10 15 24 19 5747.08 17.67 267.57 299.25 135.88 17 0 6 5147.1 23.32 261.93
 48.90 7 13 48 1947.66 17.66 46.39 299.23 135.88 7 46 16 1347.7 23.30 40.76
 131.10 15 24 19 5747.08 17.67 267.57 299.25 135.88 17 0 6 5147.1 23.32 261.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-3.8003 TRA 1.3180 TC3 -.4631 BAU .5102 SGT 3032.0 SGR 1696.3 SG3 113.6 ST 2629.2 SR 1290.4 SS 1043.8
 RDE 1.8317 RRA-1.0107 RC3 .2835 FAU .01381 RRT -.9789 RRF -.9943 RTF .9918 CRT -.9960 CRS .9992 CST -.9988
 FDE-1.5420 FRA .7104 FC3 -.1701 BSP 10966 SGB 3474.2 R23 .0667 R13 -.9962 LSA 3107.3 MSA 107.9 SSA 2.1
 BDE 4.2187 BRA 1.6609 BC3 .5430 FSP -363 SG1 3460.9 SG2 303.7 THA 151.05 EL1 2926.9 EL2 103.0 ALF 153.91

LAUNCH DATE FEB 6 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 375.072

RL 147.53 LAL .00 LOL 137.03 VL 27.734 GAL -3.51 AZL 113.03 HCA 172.95 SMA 128.85 ECC .15713 INC23.0303 V1 30.201
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.501 GAP 1.67 AZP 67.13 TAL 199.44 TAP 12.39 RCA 108.60 APO 149.09 V2 34.783
 RC 105.643 GL -64.69 GP 85.15 ZAL 99.52 ZAP 93.96 ETS 96.95 ZAE 86.33 ETE 186.89 ZAC 71.00 ETC 231.41 CLP 144.76

PLANETOCENTRIC CONIC

C3 143.525 VHL 11.980 CLA -49.42 RAL 53.19 RAD 6570.6 VEL 16.274 PTH 2.85 VHP 15.817 DPA 60.70 RAP 277.65 ECC 3.3621
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.65 7 39 45 2109.34 10.28 54.21 314.24 138.61 8 14 55 1509.3 16.23 49.13
 132.35 15 58 36 600.58 10.30 295.48 314.25 138.61 16 8 36 .6 16.24 290.40
 47.65 7 39 45 2109.34 10.28 54.21 314.24 138.61 8 14 55 1509.3 16.23 49.13
 132.35 15 58 36 600.58 10.30 295.48 314.25 138.61 16 8 36 .6 16.24 290.40
 47.65 7 39 45 2109.34 10.28 54.21 314.24 138.61 8 14 55 1509.3 16.23 49.13
 132.35 15 58 36 600.58 10.30 295.48 314.25 138.61 16 8 36 .6 16.24 290.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-5.0766 TRA 2.8202 TC3 -.1214 BAU .2366 SGT 3205.9 SGR 1585.7 SG3 82.0 ST 2506.3 SR 1478.3 SS 1015.5
 RDE-3.0682 RRA .8148 RC3 -.0214 FAU .00341 RRT .9480 RRF .9486 RTF .9992 CRT .9917 CRS -.9915 CST-1.0000
 FDE-1.5046 FRA .8401 FC3 -.0206 BSP 11204 SGB 3576.6 R23 -.0572 R13 .9976 LSA 3077.4 MSA 167.3 SSA 1.5
 BDE 5.9317 BRA 2.9356 BC3 .1233 FSP -261 SG1 3547.4 SG2 456.1 THA 25.58 EL1 2905.2 EL2 164.0 ALF 30.43

LAUNCH DATE FEB 6 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 380.698

RL 147.53 LAL .00 LOL 137.03 VL 27.714 GAL -3.28 AZL 130.68 HCA 175.61 SMA 128.71 ECC -15681 INC45.6747 VI 30.201
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.486 GAP 1.85 AZP 49.41 TAL 198.13 TAP 13.74 RCA 108.52 APO 148.89 V2 34.783
 RC 108.045 GL -62.46 GP 74.03 ZAL 95.27 ZAP 92.66 ETS 158.45 ZAE 73.33 ETE 246.55 ZAC 62.45 ETC 293.12 CLP 99.73

PLANETOCENTRIC CONIC

C3 413.616 VHL 20.338 CLA -44.95 RAL 57.90 RAD 6572.1 VEL 23.128 PTH 3.28 VHP 26.290 DPA 52.47 RAP 259.77 ECC 7.8071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.50 8 19 10 2203.71 2.58 55.00 325.30 134.90 8 55 54 1603.7 8.20 49.70
 126.50 15 56 44 798.36 2.59 306.19 325.31 134.90 16 10 2 198.4 8.22 300.89
 53.50 8 19 10 2203.71 2.58 55.00 325.30 134.90 8 55 54 1603.7 8.20 49.70
 126.50 15 56 44 798.36 2.59 306.19 325.31 134.90 16 10 2 198.4 8.22 300.89
 53.50 8 19 10 2203.71 2.58 55.00 325.30 134.90 8 55 54 1603.7 8.20 49.70
 126.50 15 56 44 798.36 2.59 306.19 325.31 134.90 16 10 2 198.4 8.22 300.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6769 TRA 1.4127 TC3 -.0212 BAU .8598 SGT 739.5 SGR 3477.3 SG3 61.9 ST 501.7 SR 2632.6 SS 1177.0
 RDE -9.0207 RRA 5.7505 RC3 .1540 FAU -.0150H RRT .0128 RRF .9984 RTF .0690 CRT -.8214 CRS -.9995 CST .8036
 FDE -1.7601 FRA 1.2590 FC3 .0316 BSP 10880 SGB 3555.1 R23 -.0556 R13 .9984 LSA 2912.9 MSA 287.2 SSA .5
 BDE 9.1752 BRA 5.9215 BC3 .1555 FSP -194 SG1 3477.3 SG2 739.5 THA 89.84 EL1 2665.0 EL2 282.6 ALF 99.00

LAUNCH DATE FEB 6 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 384.982

RL 147.53 LAL .00 LOL 137.03 VL 27.691 GAL -2.78 AZL 176.79 HCA 177.04 SMA 128.55 ECC -15521 INC6.7885 VI 30.201
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.470 GAP 1.67 AZP 3.21 TAL 195.43 TAP 12.47 RCA 108.60 APO 148.50 V2 34.784
 RC 110.446 GL -43.90 GP 47.93 ZAL 92.34 ZAP 91.27 ETS 173.97 ZAE 46.94 ETE 259.69 ZAC 45.26 ETC 319.82 CLP 91.89

PLANETOCENTRIC CONIC

C31586.072 VHL 39.826 CLA -25.96 RAL 54.65 RAD 6573.2 VEL 41.320 PTH 3.57 VHP 50.437 DPA 29.47 RAP 242.79 ECC27.1027
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 13 54 1910.53 -11.22 23.08 320.91 116.17 10 45 44 1310.5 -7.61 16.26
 90.00 13 36 5 1245.61 9.81 345.54 331.28 116.70 13 56 51 645.6 13.32 338.61
 100.00 11 8 17 1734.90 -14.48 8.52 319.25 116.44 11 37 12 1134.9 -10.82 1.65
 100.00 15 24 23 896.49 13.06 321.53 332.96 117.13 15 39 19 296.5 16.59 314.52
 110.00 11 28 18 1672.11 -21.35 .11 315.60 117.35 11 56 10 1072.1 -17.52 353.08
 110.00 17 20 52 5820.07 19.87 275.50 336.69 118.41 18 57 52 5220.1 23.50 268.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 5.7455 TRA -1.6665 TC3 -.0864 BAU 4.5548 SGT 1081.0 SGR 2726.5 SG3 54.0 ST 827.5 SR 1520.6 SS 1503.7
 RDE -9.9420 RRA10.7054 RC3 .1966 FAU -.08112 RRT -.8290 RRF .9998 RTF -.8183 CRT -.9535 CRS -.9999 CST .9497
 FDE -2.2459 FRA 2.5129 FC3 .0443 BSP 8880 SGB 2933.0 R23 -.0871 R13 .9962 LSA 2280.6 MSA 238.8 SSA .5
 BDE11.4828 BRA10.7261 BC3 .2148 FSP -171 SG1 2876.5 SG2 573.1 THA 108.98 EL1 1717.0 EL2 220.9 ALF 117.93

LAUNCH DATE FEB 6 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 395.447

RL 147.53 LAL .00 LOL 137.03 VL 27.667 GAL -3.50 AZL 44.55 HCA 184.27 SMA 128.38 ECC -16086 INC45.4500 VI 30.201
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.454 GAP 3.14 AZP 135.37 TAL 198.80 TAP 23.07 RCA 107.73 APO 149.03 V2 34.786
 RC 112.844 GL 60.79 GP -72.65 ZAL 95.02 ZAP 94.42 ETS 183.66 ZAE 74.81 ETE 98.45 ZAC 87.91 ETC 59.63 CLP 104.96

PLANETOCENTRIC CONIC

C3 508.393 VHL 22.548 CLA 66.47 RAL 348.50 RAD 6572.4 VEL 25.094 PTH 3.34 VHP 27.150 DPA -76.72 RAP 141.88 ECC 9.3669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.97 14 24 19 5027.43 -2.23 243.91 257.54 23.55 15 48 7 4427.4 -9.56 241.09
 153.03 0 37 56 3298.84 -2.22 98.28 257.52 23.55 1 32 55 2698.8 -9.55 95.46
 26.97 14 24 19 5027.43 -2.23 243.91 257.54 23.55 15 48 7 4427.4 -9.56 241.09
 153.03 0 37 56 3298.84 -2.22 98.28 257.52 23.55 1 32 55 2698.8 -9.55 95.46
 26.97 14 24 19 5027.43 -2.23 243.91 257.54 23.55 15 48 7 4427.4 -9.56 241.09
 153.03 0 37 56 3298.84 -2.22 98.28 257.52 23.55 1 32 55 2698.8 -9.55 95.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7482 TRA 1.6109 TC3 -.0686 BAU 1.3358 SGT 1087.7 SGR 3598.6 SG3 62.8 ST 361.7 SR 2918.1 SS 1397.9
 RD-11.2307 RRA 3.1875 RC3 -.1842 FAU -.01929 RRT .7357 RRF -.9996 RTF -.7273 CRT .6916 CRS 1.0000 CST .6893
 FDE 2.2950 FRA -1.6413 FC3 .0329 BSP 11748 SGB 3759.4 R23 -.0569 R13 -.9980 LSA 3245.4 MSA 260.6 SSA 1.3
 BDE11.2556 BRA 3.5715 BC3 .1965 FSP -205 SG1 3690.1 SG2 718.4 THA 76.96 EL1 2928.9 EL2 260.3 ALF 85.06

LAUNCH DATE FEB 6 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 400.993

RL 147.53 LAL .00 LOL 137.03 VL 27.641 GAL -3.23 AZL 63.08 HCA 186.91 SMA 128.20 ECC -16070 INC26.9167 VI 30.201
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.437 GAP 3.29 AZP 116.75 TAL 197.32 TAP 24.22 RCA 107.60 APO 148.81 V2 34.789
 RC 115.239 GL 64.77 GP -81.39 ZAL 97.67 ZAP 97.79 ETS 222.86 ZAE 88.36 ETE 137.75 ZAC 96.94 ETC 100.09 CLP 154.92

PLANETOCENTRIC CONIC

C3 190.741 VHL 13.811 CLA 65.73 RAL 335.34 RAD 6571.0 VEL 17.665 PTH 2.98 VHP 16.221 DPA -73.33 RAP 87.29 ECC 4.1391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.84 13 33 48 4909.17 -9.37 240.62 241.09 24.62 14 55 37 4309.2 -16.62 237.57
 152.16 23 39 34 3186.41 -9.36 95.94 241.07 24.62 24 32 40 2586.4 -16.61 92.89
 27.84 13 33 48 4909.17 -9.37 240.62 241.09 24.62 14 55 37 4309.2 -16.62 237.57
 152.16 23 39 34 3186.41 -9.36 95.94 241.07 24.62 24 32 40 2586.4 -16.61 92.89
 27.84 13 33 48 4909.17 -9.37 240.62 241.09 24.62 14 55 37 4309.2 -16.62 237.57
 152.16 23 39 34 3186.41 -9.36 95.94 241.07 24.62 24 32 40 2586.4 -16.61 92.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.7996 TRA -.8602 TC3 -.0219 BAU .0628 SGT 1800.6 SGR 3574.8 SG3 84.4 ST 1597.7 SR 2059.2 SS 955.2
 RDE -4.4421 RRA 3.0350 RC3 -.0113 FAU .00381 RRT -.8641 RRF -.9820 RTF .9412 CRT -.9557 CRS .9909 CST -.9866
 FDE 1.5553 FRA -.7249 FC3 -.0173 BSP 12652 SGB 4002.6 R23 -.0882 R13 -.9952 LSA 2750.3 MSA 376.1 SSA 1.7
 BDE 5.8455 BRA 3.1545 BC3 .0246 FSP -276 SG1 3916.2 SG2 827.2 THA 114.70 EL1 2579.2 EL2 375.5 ALF 127.49

LAUNCH DATE FEB 6 1969 FLIGHT TIME 142.00 ARRIVAL DATE JUN 28 1969

DISTANCE 406.855

HELIOCENTRIC CONIC
RL 147.53 LAL .00 LOL 137.03 VL 27.614 GAL -3.03 AZL 71.03 HCA 189.86 SMA 128.02 ECC .16108 INC18.9672 V1 30.201
RP 108.92 LAP -3.19 LOP 326.36 VP 37.420 GAP 3.52 AZP 108.71 TAL 196.10 TAP 25.96 RCA 107.40 APO 148.64 V2 34.792
RC 117.630 GL 63.47 GP -77.48 ZAL 100.01 ZAP 101.82 ETS 289.24 ZAE 96.69 ETE 203.75 ZAC 101.76 ETC 166.96 CLP-160.86

PLANETOCENTRIC CONIC
C3 100.346 VHL 10.017 DLA 63.32 RAL 335.19 RAD 6569.9 VEL 14.889 PTH 2.69 VHP 11.533 DPA -67.21 RAP 66.66 ECC 2.6514
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
30.67 13 39 46 4778.61 -16.44 235.26 236.68 27.91 14 59 25 4178.6 -23.46 231.60
149.33 23 32 22 3076.76 -16.43 93.79 236.66 27.91 24 23 38 2476.8 -23.45 90.14
30.67 13 39 46 4778.61 -16.44 235.26 236.68 27.91 14 59 25 4178.6 -23.46 231.60
149.33 23 32 22 3076.76 -16.43 93.79 236.66 27.91 24 23 38 2476.8 -23.45 90.14
30.67 13 39 46 4778.61 -16.44 235.26 236.68 27.91 14 59 25 4178.6 -23.46 231.60
149.33 23 32 22 3076.76 -16.43 93.79 236.66 27.91 24 23 38 2476.8 -23.45 90.14

DIFFERENTIAL CORRECTIONS
TDE 4.0861 TRA-2.6071 TC3 -.3023 BAU .4077
RDE .6095 RRA .0665 RC3 -.0314 FAU .01646
FDE 1.5027 FRA -.7728 FC3 -.1420 BSP 13061
BDE 4.1313 BRA 2.6079 BC3 .3039 FSP -381

MID-COURSE EXECUTION ACCURACY
SGT 4105.9 SGR 364.2 SG3 115.6
RRT .3821 RRF .4806 RTF .9925
SGB 4122.0 R23 .1069 R13 .9928
SG1 4108.3 SG2 336.4 THA 1.95

ORBIT DETERMINATION ACCURACY
ST 2540.7 SR 349.5 SS 905.6
CRT .8890 CRS -.9196 CST -.9974
LSA 2714.6 MSA 168.1 SSA 2.0
EL1 2559.7 EL2 158.9 ALF 7.00

LAUNCH DATE FEB 6 1969 FLIGHT TIME 144.00 ARRIVAL DATE JUN 30 1969

DISTANCE 412.798

HELIOCENTRIC CONIC
RL 147.53 LAL .00 LOL 137.03 VL 27.585 GAL -2.83 AZL 75.30 HCA 192.91 SMA 127.82 ECC .16170 INC14.6968 V1 30.201
RP 108.91 LAP -3.25 LOP 329.53 VP 37.402 GAP 3.78 AZP 104.34 TAL 194.95 TAP 27.86 RCA 107.15 APO 148.49 V2 34.796
RC 120.015 GL 60.76 GP -71.05 ZAL 101.85 ZAP 106.20 ETS 305.25 ZAE 102.98 ETE 218.76 ZAC 105.05 ETC 183.00 CLP-149.20

PLANETOCENTRIC CONIC
C3 64.165 VHL 8.010 DLA 60.91 RAL 338.51 RAD 6569.2 VEL 13.621 PTH 2.49 VHP 9.115 DPA -61.31 RAP 55.81 ECC 2.0560
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
33.52 13 59 54 4664.68 -22.02 229.52 235.52 31.63 15 17 39 4064.7 -28.76 225.16
146.48 23 38 41 2986.63 -22.01 91.42 235.50 31.63 24 28 28 2386.6 -28.75 87.07
33.52 13 59 54 4664.68 -22.02 229.52 235.52 31.63 15 17 39 4064.7 -28.76 225.16
146.48 23 38 41 2986.63 -22.01 91.42 235.50 31.63 24 28 28 2386.6 -28.75 87.07
33.52 13 59 54 4664.68 -22.02 229.52 235.52 31.63 15 17 39 4064.7 -28.76 225.16
146.48 23 38 41 2986.63 -22.01 91.42 235.50 31.63 24 28 28 2386.6 -28.75 87.07

DIFFERENTIAL CORRECTIONS
TDE 3.0655 TRA-2.2364 TC3 -.6902 BAU .6287
RDE 1.2661 RRA -.5361 RC3 -.2464 FAU .02971
FDE 1.5715 FRA -.8632 FC3 -.4008 BSP 15560
BDE 3.3166 BRA 2.2998 BC3 .7329 FSP -616

MID-COURSE EXECUTION ACCURACY
SGT 4105.9 SGR 1264.2 SG3 156.7
RRT .9667 RRF .9916 RTF .9876
SGB 4296.1 R23 .1225 R13 .9905
SG1 4284.9 SG2 309.9 THA 16.67

ORBIT DETERMINATION ACCURACY
ST 2404.9 SR 936.1 SS 934.8
CRT .9860 CRS -.9975 CST -.9954
LSA 2740.1 MSA 159.6 SSA 2.5
EL1 2576.5 EL2 145.6 ALF 21.07

LAUNCH DATE FEB 6 1969 FLIGHT TIME 146.00 ARRIVAL DATE JUL 2 1969

DISTANCE 418.792

HELIOCENTRIC CONIC
RL 147.53 LAL .00 LOL 137.03 VL 27.555 GAL -2.63 AZL 77.95 HCA 196.00 SMA 127.62 ECC .16246 INC12.0459 V1 30.201
RP 108.89 LAP -3.30 LOP 332.70 VP 37.384 GAP 4.04 AZP 101.59 TAL 193.78 TAP 29.78 RCA 106.88 APO 148.35 V2 34.800
RC 122.394 GL 57.74 GP -64.81 ZAL 103.17 ZAP 110.68 ETS 309.74 ZAE 108.10 ETE 221.63 ZAC 107.62 ETC 187.12 CLP-146.08

PLANETOCENTRIC CONIC
C3 46.151 VHL 6.793 DLA 58.71 RAL 342.66 RAD 6568.7 VEL 12.943 PTH 2.36 VHP 7.713 DPA -55.67 RAP 49.00 ECC 1.7595
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
36.15 14 23 10 4571.05 -26.07 223.95 235.39 35.32 15 39 21 3971.0 -32.49 218.89
143.85 23 48 35 2917.77 -26.05 89.10 235.36 35.32 24 37 12 2317.8 -32.48 84.04
36.15 14 23 10 4571.05 -26.07 223.95 235.39 35.32 15 39 21 3971.0 -32.49 218.89
143.85 23 48 35 2917.77 -26.05 89.10 235.36 35.32 24 37 12 2317.8 -32.48 84.04
36.15 14 23 10 4571.05 -26.07 223.95 235.39 35.32 15 39 21 3971.0 -32.49 218.89
143.85 23 48 35 2917.77 -26.05 89.10 235.36 35.32 24 37 12 2317.8 -32.48 84.04

DIFFERENTIAL CORRECTIONS
TDE 2.7459 TRA-1.8487 TC3-1.0109 BAU .6634
RDE 1.2778 RRA -.4685 RC3 -.3662 FAU .03678
FDE 1.7750 FRA -.8068 FC3 -.6899 BSP 13242
BDE 3.0287 BRA 1.9072 BC3 1.0751 FSP -618

MID-COURSE EXECUTION ACCURACY
SGT 4032.8 SGR 1409.9 SG3 190.0
RRT .9609 RRF .9922 RTF .9796
SGB 4272.2 R23 .1551 R13 .9846
SG1 4256.1 SG2 370.0 THA 18.72

ORBIT DETERMINATION ACCURACY
ST 2485.2 SR 1101.7 SS 1031.6
CRT .9869 CRS -.9988 CST -.9935
LSA 2901.8 MSA 183.6 SSA 3.2
EL1 2713.6 EL2 163.0 ALF 23.72

LAUNCH DATE FEB 6 1969 FLIGHT TIME 148.00 ARRIVAL DATE JUL 4 1969

DISTANCE 424.782

HELIOCENTRIC CONIC
RL 147.53 LAL .00 LOL 137.03 VL 27.524 GAL -2.43 AZL 79.76 HCA 199.12 SMA 127.41 ECC .16335 INC10.2379 V1 30.201
RP 108.88 LAP -3.34 LOP 335.87 VP 37.366 GAP 4.31 AZP 99.68 TAL 192.60 TAP 31.72 RCA 106.59 APO 148.22 V2 34.805
RC 124.766 GL 54.73 GP -59.02 ZAL 104.01 ZAP 115.14 ETS 311.51 ZAE 112.36 ETE 221.25 ZAC 109.79 ETC 188.21 CLP-145.63

PLANETOCENTRIC CONIC
C3 35.835 VHL 5.986 DLA 56.73 RAL 346.91 RAD 6568.4 VEL 12.538 PTH 2.27 VHP 6.846 DPA -50.31 RAP 44.39 ECC 1.5898
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
38.55 14 46 29 4494.74 -28.88 218.75 235.71 38.80 16 1 23 3894.7 -34.98 213.06
141.45 0 3 7 2866.47 -28.87 86.98 235.69 38.79 0 50 53 2266.5 -34.96 81.29
38.55 14 46 29 4494.74 -28.88 218.75 235.71 38.80 16 1 23 3894.7 -34.98 213.06
141.45 0 3 7 2866.47 -28.87 86.98 235.69 38.79 0 50 53 2266.5 -34.96 81.29
38.55 14 46 29 4494.74 -28.88 218.75 235.71 38.80 16 1 23 3894.7 -34.98 213.06
141.45 0 3 7 2866.47 -28.87 86.98 235.69 38.79 0 50 53 2266.5 -34.96 81.29

DIFFERENTIAL CORRECTIONS
TDE 2.5218 TRA-1.6401 TC3-1.4285 BAU .7239
RDE 1.1381 RRA -.3908 RC3 -.4929 FAU .04574
FDE 1.8865 FRA -.7795 FC3-1.1051 BSP 13584
BDE 2.7667 BRA 1.6860 BC3 1.5111 FSP -748

MID-COURSE EXECUTION ACCURACY
SGT 4115.4 SGR 1414.0 SG3 226.3
RRT .9604 RRF .9922 RTF .9752
SGB 4351.6 R23 .1715 R13 .9805
SG1 4335.5 SG2 374.0 THA 18.40

ORBIT DETERMINATION ACCURACY
ST 2562.2 SR 1108.4 SS 1095.2
CRT .9878 CRS -.9993 CST -.9929
LSA 2993.1 MSA 185.6 SSA 3.9
EL1 2787.2 EL2 158.4 ALF 23.22

LAUNCH DATE FEB 6 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 430.771

RL 147.53 LAL .00 LOL 137.03 VL 27.492 GAL -2.22 AZL 81.08 MCA 202.25 SMA 127.19 ECC .16437 INC 8.9214 V1 30.201
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.348 GAP 4.58 AZP 98.27 TAL 191.40 TAP 33.65 RCA 106.28 APO 148.10 V2 34.811
 RC 127.128 GL 51.87 GP -53.73 ZAL 104.40 ZAP 119.45 ETS 312.45 ZAE 115.89 ETE 219.64 ZAC 111.72 ETC 188.25 CLP-146.21

PLANETOCENTRIC CONIC

C3 29.330 VHL 5.416 CLA 54.97 RAL 351.08 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 6.292 CPA -45.26 RAP 41.22 ECC 1.4827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.70 15 9 2 4432.03 -30.81 214.03 236.38 41.94 16 22 54 3832.0 -36.59 207.79
 139.30 0 13 47 2828.32 -30.80 85.14 236.36 41.94 1 0 56 2228.3 -36.58 78.90
 40.70 15 9 2 4432.03 -30.81 214.03 236.38 41.94 16 22 54 3832.0 -36.59 207.79
 139.30 0 13 47 2828.32 -30.80 85.14 236.36 41.94 1 0 56 2228.3 -36.58 78.90
 40.70 15 9 2 4432.03 -30.81 214.03 236.38 41.94 16 22 54 3832.0 -36.59 207.79
 139.30 0 13 47 2828.32 -30.80 85.14 236.36 41.94 1 0 56 2228.3 -36.58 78.90

DIFFERENTIAL CORRECTIONS

TCE 2.3825 TRA-1.4721 TC3-1.8705 BAU .7682
 RDE .9953 RRA -.3073 RC3 -.5828 FAU .05324
 FDE 1.9511 FRA -.7172 FC3-1.5714 BSP 13916
 BDE 2.5820 BRA 1.5039 BC3 1.9592 FSP -864

MID-COURSE EXECUTION ACCURACY

SGT 4221.1 SGR 1352.0 SG3 257.8
 RRT .9584 RRF .9906 RTF .9715
 SGB 4432.4 R23 .1833 R13 .9765
 SG1 4417.0 SG2 368.9 THA 17.19

ORBIT DETERMINATION ACCURACY

ST 2649.4 SR 1066.8 SS 1143.0
 CRT .9884 CRS -.9995 CST -.9925
 LSA 3070.7 MSA 184.9 SSA 4.8
 EL1 2852.1 EL2 150.4 ALF 21.77

LAUNCH DATE FEB 6 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 436.754

RL 147.53 LAL .00 LOL 137.03 VL 27.459 GAL -2.00 AZL 82.08 MCA 205.39 SMA 126.97 ECC .16550 INC 7.9154 V1 30.201
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.330 GAP 4.85 AZP 97.16 TAL 190.16 TAP 35.55 RCA 105.36 APO 147.98 V2 34.818
 RC 129.481 GL 49.19 GP -48.95 ZAL 104.38 ZAP 123.52 ETS 313.09 ZAE 118.77 ETE 217.48 ZAC 113.49 ETC 187.86 CLP-147.25

PLANETOCENTRIC CONIC

C3 24.933 VHL 4.993 DLA 53.42 RAL 355.13 RAD 6568.0 VEL 12.096 PTH 2.17 VHP 5.934 CPA -40.56 RAP 39.05 ECC 1.4103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.61 15 30 42 4379.85 -32.12 209.81 237.37 44.73 16 43 41 3779.8 -37.61 203.13
 137.39 0 24 28 2799.82 -32.11 83.57 237.36 44.72 1 11 8 2199.8 -37.60 76.89
 42.61 15 30 42 4379.85 -32.12 209.81 237.37 44.73 16 43 41 3779.8 -37.61 203.13
 137.39 0 24 28 2799.82 -32.11 83.57 237.36 44.72 1 11 8 2199.8 -37.60 76.89
 42.61 15 30 42 4379.85 -32.12 209.81 237.37 44.73 16 43 41 3779.8 -37.61 203.13
 137.39 0 24 28 2799.82 -32.11 83.57 237.36 44.72 1 11 8 2199.8 -37.60 76.89

DIFFERENTIAL CORRECTIONS

TCE 2.2909 TRA-1.3219 TC3-2.3217 BAU .8023
 RDE .8712 RRA -.2317 RC3 -.6351 FAU .05883
 FDE 1.9736 FRA -.6220 FC3-2.0427 BSP 14154
 BDE 2.4509 BRA 1.3420 BC3 2.4070 FSP -950

MID-COURSE EXECUTION ACCURACY

SGT 4331.6 SGR 1265.2 SG3 282.9
 RRT .9550 RRF .9877 RTF .9680
 SGB 4512.6 R23 .1914 R13 .9725
 SG1 4498.1 SG2 361.2 THA 15.69

ORBIT DETERMINATION ACCURACY

ST 2738.2 SR 1008.8 SS 1176.1
 CRT .9888 CRS -.9997 CST -.9922
 LSA 3140.8 MSA 183.5 SSA 5.7
 EL1 2914.7 EL2 141.3 ALF 20.07

LAUNCH DATE FEB 6 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 442.728

RL 147.53 LAL .00 LOL 137.03 VL 27.425 GAL -1.77 AZL 82.88 MCA 208.54 SMA 126.75 ECC .16674 INC 7.1179 V1 30.201
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.312 GAP 5.12 AZP 96.26 TAL 188.90 TAP 37.44 RCA 105.61 APO 147.88 V2 34.825
 RC 131.823 GL 46.67 GP -44.68 ZAL 104.00 ZAP 127.32 ETS 313.63 ZAE 121.09 ETE 215.11 ZAC 115.17 ETC 187.30 CLP-148.50

PLANETOCENTRIC CONIC

C3 21.806 VHL 4.670 DLA 52.06 RAL 359.11 RAD 6567.9 VEL 11.966 PTH 2.13 VHP 5.708 CPA -36.23 RAP 37.62 ECC 1.3589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.30 15 51 35 4335.90 -33.01 206.07 238.69 47.15 17 3 51 3735.9 -38.23 199.03
 135.70 0 35 16 2778.38 -33.00 82.27 238.68 47.15 1 21 35 2178.4 -38.22 75.23
 44.30 15 51 35 4335.90 -33.01 206.07 238.69 47.15 17 3 51 3735.9 -38.23 199.03
 135.70 0 35 16 2778.38 -33.00 82.27 238.68 47.15 1 21 35 2178.4 -38.22 75.23
 44.30 15 51 35 4335.90 -33.01 206.07 238.69 47.15 17 3 51 3735.9 -38.23 199.03
 135.70 0 35 16 2778.38 -33.00 82.27 238.68 47.15 1 21 35 2178.4 -38.22 75.23

DIFFERENTIAL CORRECTIONS

TCE 2.2229 TRA-1.1834 TC3-2.7807 BAU .8331
 RDE .7659 RRA -.1694 RC3 -.6592 FAU .06278
 FDE 1.9547 FRA -.5070 FC3-2.4923 BSP 14472
 BDE 2.3511 BRA 1.1955 BC3 2.8577 FSP -1020

MID-COURSE EXECUTION ACCURACY

SGT 4445.3 SGR 1173.2 SG3 301.7
 RRT .9511 RRF .9834 RTF .9648
 SGB 4597.5 R23 .1945 R13 .9687
 SG1 4584.1 SG2 351.4 THA 14.18

ORBIT DETERMINATION ACCURACY

ST 2819.0 SR 945.3 SS 1192.7
 CRT .9892 CRS -.9998 CST -.9918
 LSA 3198.5 MSA 181.5 SSA 6.6
 EL1 2970.4 EL2 131.3 ALF 18.39

LAUNCH DATE FEB 6 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 448.692

RL 147.53 LAL .00 LOL 137.03 VL 27.391 GAL -1.53 AZL 83.53 MCA 211.69 SMA 126.52 ECC .16811 INC 6.4666 V1 30.201
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.294 GAP 5.38 AZP 95.51 TAL 187.62 TAP 39.31 RCA 105.25 APO 147.79 V2 34.833
 RC 134.153 GL 44.30 GP -40.87 ZAL 103.29 ZAP 130.83 ETS 314.12 ZAE 122.93 ETE 212.69 ZAC 116.81 ETC 186.70 CLP-149.84

PLANETOCENTRIC CONIC

C3 19.496 VHL 4.415 DLA 50.87 RAL 3.03 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 5.572 CPA -32.26 RAP 36.77 ECC 1.3209
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.79 16 11 54 4298.47 -33.60 202.78 240.33 49.26 17 23 32 3698.5 -38.59 195.44
 134.21 0 46 19 2762.21 -33.59 81.21 240.31 49.25 1 32 21 2162.2 -38.58 73.88
 45.79 16 11 54 4298.47 -33.60 202.78 240.33 49.26 17 23 32 3698.5 -38.59 195.44
 134.21 0 46 19 2762.21 -33.59 81.21 240.31 49.25 1 32 21 2162.2 -38.58 73.88
 45.79 16 11 54 4298.47 -33.60 202.78 240.33 49.26 17 23 32 3698.5 -38.59 195.44
 134.21 0 46 19 2762.21 -33.59 81.21 240.31 49.25 1 32 21 2162.2 -38.58 73.88

DIFFERENTIAL CORRECTIONS

TCE 2.1763 TRA-1.0456 TC3-3.2291 BAU .8589
 RDE .6803 RRA -.1174 RC3 -.6569 FAU .06491
 FDE 1.9102 FRA -.3752 FC3-2.8825 BSP 14674
 BDE 2.2802 BRA 1.0522 BC3 3.2953 FSP -1056

MID-COURSE EXECUTION ACCURACY

SGT 4553.0 SGR 1083.6 SG3 314.1
 RRT .9458 RRF .9775 RTF .9616
 SGB 4680.1 R23 .1935 R13 .9649
 SG1 4667.5 SG2 343.1 THA 12.76

ORBIT DETERMINATION ACCURACY

ST 2898.0 SR 886.0 SS 1199.1
 CRT .9898 CRS -.9999 CST -.9914
 LSA 3254.1 MSA 179.4 SSA 7.7
 EL1 3028.0 EL2 120.8 ALF 16.86

LAUNCH DATE FEB 6 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.356 GAL -1.28 AZL 84.08 HCA 214.85 SMA 126.29 ECC .16960 INC 5.9218 V1 30.201
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.276 GAP 5.65 AZP 94.87 TAL 186.30 TAP 41.15 RCA 104.87 APO 147.71 V2 34.841
 RC 136.471 GL 42.06 GP -37.50 ZAL 102.27 ZAP 134.05 ETS 314.57 ZAE 124.38 ETE 210.35 ZAC 118.43 ETC 186.12 CLP-151.21

PLANETOCENTRIC CONIC
 C3 17.742 VHL 4.212 DLA 49.82 RAL 6.96 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 5.502 CPA -28.63 RAP 36.36 ECC 1.2920
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.13 16 31 47 4266.35 -33.99 199.87 242.27 51.09 17 42 53 3666.3 -38.76 192.30
 132.87 0 57 42 2750.07 -33.97 80.35 242.26 51.08 1 43 32 2150.1 -38.75 72.79
 47.13 16 31 47 4266.35 -33.99 199.87 242.27 51.09 17 42 53 3666.3 -38.76 192.30
 132.87 0 57 42 2750.07 -33.97 80.35 242.26 51.08 1 43 32 2150.1 -38.75 72.79
 47.13 16 31 47 4266.35 -33.99 199.87 242.27 51.09 17 42 53 3666.3 -38.76 192.30
 132.87 0 57 42 2750.07 -33.97 80.35 242.26 51.08 1 43 32 2150.1 -38.75 72.79

DIFFERENTIAL CORRECTIONS
 TDE 2.1371 TRA -.9117 TC3-3.6780 BAU .8856 SGT 4663.3 SGR 1002.7 SG3 321.9 ST 2965.2 SR 830.3 SS 1192.5
 RDE .6092 RRA -.0769 RC3 -.6419 FAU .06599 RRT .9402 RRF .9699 RTF .9589 CRT .9905 CRS -.9999 CST -.9909
 FDE 1.8397 FRA -.2421 FC3-3.2200 BSP 14977 SGB 4769.9 R23 .1868 R13 .9617 LSA 3297.3 MSA 176.5 SSA 8.8
 BDE 2.2223 BRA .9149 BC3 3.7336 FSP -1083 SGI 4758.1 SG2 334.9 THA 11.49 EL1 3077.3 EL2 109.8 ALF 15.52

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.320 GAL -1.02 AZL 84.54 HCA 218.01 SMA 126.06 ECC .17122 INC 5.4568 V1 30.201
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.258 GAP 5.92 AZP 94.30 TAL 184.96 TAP 42.97 RCA 104.47 APO 147.64 V2 34.850
 RC 138.775 GL 39.92 GP -34.51 ZAL 100.98 ZAP 137.00 ETS 314.98 ZAE 125.50 ETE 208.13 ZAC 120.06 ETC 185.56 CLP-152.58

PLANETOCENTRIC CONIC
 C3 16.385 VHL 4.048 DLA 48.88 RAL 10.90 RAD 6567.7 VEL 11.738 PTH 2.07 VHP 5.480 CPA -25.31 RAP 36.31 ECC 1.2697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.33 16 51 28 4238.52 -34.21 197.29 244.51 52.67 18 2 7 3638.5 -38.80 189.54
 131.67 1 9 29 2741.22 -34.20 79.68 244.50 52.66 1 55 10 2141.2 -38.79 71.93
 48.33 16 51 28 4238.52 -34.21 197.29 244.51 52.67 18 2 7 3638.5 -38.80 189.54
 131.67 1 9 29 2741.22 -34.20 79.68 244.50 52.66 1 55 10 2141.2 -38.79 71.93
 48.33 16 51 28 4238.52 -34.21 197.29 244.51 52.67 18 2 7 3638.5 -38.80 189.54
 131.67 1 9 29 2741.22 -34.20 79.68 244.50 52.66 1 55 10 2141.2 -38.79 71.93

DIFFERENTIAL CORRECTIONS
 TDE 2.1050 TRA -.7765 TC3-4.1115 BAU .9107 SGT 4769.8 SGR 930.6 SG3 325.3 ST 3023.1 SR 781.3 SS 1176.9
 RDE .5515 RRA -.0446 RC3 -.6144 FAU .06593 RRT .9332 RRF .9601 RTF .9567 CRT .9915 CRS -.9999 CST -.9905
 FDE 1.7544 FRA -.1095 FC3-3.4832 BSP 15309 SGB 4859.7 R23 .1756 R13 .9589 LSA 3332.3 MSA 173.4 SSA 9.9
 BDE 2.1761 BRA .7777 BC3 4.1572 FSP -1097 SGI 4848.5 SG2 329.1 THA 10.37 EL1 3120.9 EL2 98.5 ALF 14.39

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.284 GAL -.75 AZL 84.95 HCA 221.17 SMA 125.82 ECC .17297 INC 5.0530 V1 30.201
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.241 GAP 6.19 AZP 93.81 TAL 183.60 TAP 44.77 RCA 104.06 APO 147.59 V2 34.860
 RC 141.067 GL 37.86 GP -31.88 ZAL 99.43 ZAP 139.71 ETS 315.34 ZAE 126.37 ETE 206.07 ZAC 121.71 ETC 185.05 CLP-153.93

PLANETOCENTRIC CONIC
 C3 15.326 VHL 3.915 DLA 48.03 RAL 14.89 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 5.494 CPA -22.27 RAP 36.56 ECC 1.2522
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.43 17 11 5 4214.30 -34.31 195.00 247.03 54.06 18 21 20 3614.3 -38.73 187.11
 130.57 1 21 41 2735.14 -34.30 79.17 247.02 54.05 2 7 16 2135.1 -38.72 71.28
 49.43 17 11 5 4214.30 -34.31 195.00 247.03 54.06 18 21 20 3614.3 -38.73 187.11
 130.57 1 21 41 2735.14 -34.30 79.17 247.02 54.05 2 7 16 2135.1 -38.72 71.28
 49.43 17 11 5 4214.30 -34.31 195.00 247.03 54.06 18 21 20 3614.3 -38.73 187.11
 130.57 1 21 41 2735.14 -34.30 79.17 247.02 54.05 2 7 16 2135.1 -38.72 71.28

DIFFERENTIAL CORRECTIONS
 TDE 2.0742 TRA -.6396 TC3-4.5298 BAU .9358 SGT 4873.9 SGR 867.4 SG3 325.3 ST 3066.5 SR 737.4 SS 1150.9
 RDE .5037 RRA -.0193 RC3 -.5815 FAU .06516 RRT .9252 RRF .9481 RTF .9550 CRT .9927 CRS -.9996 CST -.9899
 FDE 1.6555 FRA .0166 FC3-3.6809 BSP 15674 SGB 4950.5 R23 .1596 R13 .9568 LSA 3353.0 MSA 169.5 SSA 11.0
 BDE 2.1345 BRA .6399 BC3 4.5670 FSP -1103 SGI 4939.8 SG2 324.7 THA 9.39 EL1 3152.7 EL2 86.8 ALF 13.44

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.248 GAL -.47 AZL 85.30 HCA 224.34 SMA 125.59 ECC .17487 INC 4.6970 V1 30.201
 RP 108.68 LAP -3.28 LOP 358.09 VP 37.224 GAP 6.47 AZP 93.36 TAL 182.22 TAP 46.56 RCA 103.63 APO 147.55 V2 34.870
 RC 143.344 GL 35.87 GP -29.54 ZAL 97.65 ZAP 142.19 ETS 315.63 ZAE 127.03 ETE 204.19 ZAC 123.40 ETC 184.58 CLP-155.25

PLANETOCENTRIC CONIC
 C3 14.498 VHL 3.808 DLA 47.24 RAL 18.93 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 5.537 CPA -19.48 RAP 37.05 ECC 1.2386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.46 17 30 49 4193.03 -34.31 192.93 249.83 55.28 18 40 42 3593.0 -38.58 184.93
 129.54 1 34 15 2731.61 -34.30 78.82 249.82 55.27 2 19 47 2131.6 -38.57 70.83
 50.46 17 30 49 4193.03 -34.31 192.93 249.83 55.28 18 40 42 3593.0 -38.58 184.93
 129.54 1 34 15 2731.61 -34.30 78.82 249.82 55.27 2 19 47 2131.6 -38.57 70.83
 50.46 17 30 49 4193.03 -34.31 192.93 249.83 55.28 18 40 42 3593.0 -38.58 184.93
 129.54 1 34 15 2731.61 -34.30 78.82 249.82 55.27 2 19 47 2131.6 -38.57 70.83

DIFFERENTIAL CORRECTIONS
 TDE 2.0495 TRA -.4938 TC3-4.9167 BAU .9588 SGT 4972.8 SGR 814.4 SG3 322.9 ST 3103.5 SR 701.9 SS 1122.6
 RDE .4664 RRA .0028 RC3 -.5427 FAU .06365 RRT .9148 RRF .9338 RTF .9531 CRT .9939 CRS -.9991 CST -.9893
 FDE 1.5572 FRA .1438 FC3-3.8010 BSP 15997 SGB 5039.0 R23 .1439 R13 .9546 LSA 3369.9 MSA 166.9 SSA 12.2
 BDE 2.1019 BRA .4938 BC3 4.9466 FSP -1097 SGI 5028.5 SG2 325.3 THA 8.56 EL1 3180.9 EL2 75.3 ALF 12.68

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 478.326

RL 147.53 LAL .00 LOL 137.03 VL 27.212 GAL -.18 AZL 85.62 HCA 227.51 SMA 125.35 ECC .17692 INC 4.3790 V1 30.201
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.207 GAP 6.74 AZP 92.96 TAL 180.82 TAP 48.32 RCA 103.17 APO 147.53 V2 34.880
 RC 145.608 GL 33.92 GP -27.48 ZAL 95.65 ZAP 144.47 ETS 315.85 ZAE 127.54 ETE 202.48 ZAC 125.13 ETC 184.16 CLP-156.53

PLANETOCENTRIC CONIC

C3 13.859 VHL 3.723 DLA 46.49 RAL 23.05 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 5.602 OPA -16.91 RAP 37.76 ECC 1.2281
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.46 17 50 45 4174.19 -34.21 191.05 252.87 56.36 19 0 19 3574.2 -38.35 182.97
 128.54 1 47 8 2730.56 -34.20 78.64 252.86 56.35 2 32 38 2130.6 -38.34 70.56
 51.46 17 50 45 4174.19 -34.21 191.05 252.87 56.36 19 0 19 3574.2 -38.35 182.97
 128.54 1 47 8 2730.56 -34.20 78.64 252.86 56.35 2 32 38 2130.6 -38.34 70.56
 51.46 17 50 45 4174.19 -34.21 191.05 252.87 56.36 19 0 19 3574.2 -38.35 182.97
 128.54 1 47 8 2730.56 -34.20 78.64 252.86 56.35 2 32 38 2130.6 -38.34 70.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0214 TRA -.3484 TC3-5.2685 BAU .9806 SGT 5066.8 SGR 768.3 SG3 317.8 ST 3122.0 SR 670.4 SS 1085.1
 RDE .4354 RRA .0186 RC3 -.5016 FAU .06166 RRT .9036 RRF .9169 RTF .9528 CRT .9954 CRS -.9981 CST -.9887
 FDE 1.4513 FRA .2525 FC3-3.8514 BSP 16304 SGB 5124.7 R23 .1222 R13 .9539 LSA 3368.5 MSA 162.1 SSA 13.4
 BDE 2.0678 BRA .3489 BC3 5.2923 FSP -1080 SGI 5114.3 SG2 326.1 THA 7.83 EL1 3192.5 EL2 62.7 ALF 12.07

LAUNCH DATE FEB 6 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 484.211

RL 147.53 LAL .00 LOL 137.03 VL 27.175 GAL .13 AZL 85.91 HCA 230.68 SMA 125.11 ECC .17914 INC 4.0915 V1 30.201
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.190 GAP 7.02 AZP 92.60 TAL 179.39 TAP 50.07 RCA 102.70 APO 147.53 V2 34.891
 RC 147.857 GL 32.01 GP -25.65 ZAL 93.45 ZAP 146.57 ETS 315.98 ZAE 127.92 ETE 200.95 ZAC 126.90 ETC 183.77 CLP-157.78

PLANETOCENTRIC CONIC

C3 13.380 VHL 3.658 DLA 45.74 RAL 27.23 RAD 6567.5 VEL 11.609 PTH 2.03 VHP 5.687 OPA -14.54 RAP 38.64 ECC 1.2202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.44 18 11 2 4157.29 -34.01 189.31 256.13 57.34 19 20 19 3557.3 -38.04 181.17
 127.56 2 0 11 2732.09 -34.00 78.63 256.12 57.33 2 45 43 2132.1 -38.03 70.49
 52.44 18 11 2 4157.29 -34.01 189.31 256.13 57.34 19 20 19 3557.3 -38.04 181.17
 127.56 2 0 11 2732.09 -34.00 78.63 256.12 57.33 2 45 43 2132.1 -38.03 70.49
 52.44 18 11 2 4157.29 -34.01 189.31 256.13 57.34 19 20 19 3557.3 -38.04 181.17
 127.56 2 0 11 2732.09 -34.00 78.63 256.12 57.33 2 45 43 2132.1 -38.03 70.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9952 TRA -.1850 TC3-5.5722 BAU 1.0001 SGT 5153.3 SGR 731.5 SG3 311.6 ST 3130.1 SR 646.2 SS 1048.6
 RDE .4122 RRA .0359 RC3 -.4570 FAU .05908 RRT .8879 RRF .8982 RTF .9508 CRT .9967 CRS -.9965 CST -.9876
 FDE 1.3520 FRA .3732 FC3-3.8229 BSP 16537 SGB 5205.0 R23 .1097 R13 .9517 LSA 3359.8 MSA 161.3 SSA 14.6
 BDE 2.0373 BRA .1885 BC3 5.5909 FSP -1049 SGI 5194.3 SG2 333.9 THA 7.21 EL1 3195.7 EL2 51.0 ALF 11.63

LAUNCH DATE FEB 6 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 490.081

RL 147.53 LAL .00 LOL 137.03 VL 27.138 GAL .45 AZL 86.17 HCA 233.85 SMA 124.88 ECC .18152 INC 3.8289 V1 30.201
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.174 GAP 7.31 AZP 92.26 TAL 177.95 TAP 51.81 RCA 102.21 APO 147.53 V2 34.902
 RC 150.092 GL 30.12 GP -24.02 ZAL 91.08 ZAP 148.51 ETS 316.02 ZAE 128.21 ETE 199.57 ZAC 128.71 ETC 183.41 CLP-159.00

PLANETOCENTRIC CONIC

C3 13.041 VHL 3.611 DLA 44.39 RAL 31.46 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 5.787 OPA -12.35 RAP 39.68 ECC 1.2146
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.45 18 31 40 4142.03 -33.71 187.67 259.60 58.23 19 40 42 3542.0 -37.63 179.49
 126.55 2 13 19 2736.26 -33.70 78.79 259.60 58.22 2 58 55 2136.3 -37.62 70.62
 53.45 18 31 40 4142.03 -33.71 187.67 259.60 58.23 19 40 42 3542.0 -37.63 179.49
 126.55 2 13 19 2736.26 -33.70 78.79 259.60 58.22 2 58 55 2136.3 -37.62 70.62
 53.45 18 31 40 4142.03 -33.71 187.67 259.60 58.23 19 40 42 3542.0 -37.63 179.49
 126.55 2 13 19 2736.26 -33.70 78.79 259.60 58.22 2 58 55 2136.3 -37.62 70.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9609 TRA -.0215 TC3-5.8399 BAU 1.0208 SGT 5241.4 SGR 701.7 SG3 304.8 ST 3113.7 SR 624.5 SS 1004.3
 RDE .3931 RRA .0489 RC3 -.4187 FAU .05667 RRT .8729 RRF .8783 RTF .9504 CRT .9980 CRS -.9939 CST -.9865
 FDE 1.2488 FRA .4751 FC3-3.7619 BSP 16762 SGB 5288.2 R23 .0926 R13 .9511 LSA 3326.9 MSA 158.9 SSA 15.9
 BDE 1.9999 BRA .0534 BC3 5.8549 FSP -1016 SGI 5277.2 SG2 340.0 THA 6.69 EL1 3175.5 EL2 38.6 ALF 11.32

LAUNCH DATE FEB 6 1969

FLIGHT TIME 172.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 495.935

RL 147.53 LAL .00 LOL 137.03 VL 27.101 GAL .79 AZL 86.41 HCA 237.03 SMA 124.64 ECC .18409 INC 3.5865 V1 30.201
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.157 GAP 7.60 AZP 91.95 TAL 176.50 TAP 53.53 RCA 101.70 APO 147.53 V2 34.914
 RC 152.312 GL 28.24 GP -22.57 ZAL 88.56 ZAP 150.31 ETS 315.96 ZAE 128.43 ETE 198.34 ZAC 130.56 ETC 183.07 CLP-160.18

PLANETOCENTRIC CONIC

C3 12.831 VHL 3.582 DLA 44.21 RAL 35.73 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 5.901 OPA -10.30 RAP 40.85 ECC 1.2112
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.51 18 52 47 4127.87 -33.32 186.08 263.25 59.06 20 1 35 3527.9 -37.14 177.89
 125.49 2 26 18 2743.43 -33.30 79.15 263.24 59.05 3 12 1 2143.4 -37.12 70.96
 54.51 18 52 47 4127.87 -33.32 186.08 263.25 59.06 20 1 35 3527.9 -37.14 177.89
 125.49 2 26 18 2743.43 -33.30 79.15 263.24 59.05 3 12 1 2143.4 -37.12 70.96
 54.51 18 52 47 4127.87 -33.32 186.08 263.25 59.06 20 1 35 3527.9 -37.14 177.89
 125.49 2 26 18 2743.43 -33.30 79.15 263.24 59.05 3 12 1 2143.4 -37.12 70.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9173 TRA .1493 TC3-6.0556 BAU 1.0409 SGT 5323.2 SGR 675.8 SG3 296.7 ST 3071.1 SR 604.3 SS 951.1
 RDE .3769 RRA .0604 RC3 -.3825 FAU .05415 RRT .8569 RRF .8568 RTF .9505 CRT .9990 CRS -.9900 CST -.9851
 FDE 1.1407 FRA .5685 FC3-3.6534 BSP 17073 SGB 5366.0 R23 .0754 R13 .9511 LSA 3267.5 MSA 156.9 SSA 17.1
 BDE 1.9540 BRA .1610 BC3 6.0677 FSP -994 SGI 5354.8 SG2 346.3 THA 6.23 EL1 3129.9 EL2 26.6 ALF 11.12

LAUNCH DATE FEB 6 1969

FLIGHT TIME 174.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.063 GAL 1.14 AZL 86.64 HCA 240.21 SMA 124.41 ECC .18686 INC 3.3609 V1 30.201
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.142 GAP 7.90 AZP 91.67 TAL 175.03 TAP 55.24 RCA 101.16 APO 147.65 V2 34.926
 RC 154.516 GL 26.38 GP -21.27 ZAL 85.91 ZAP 151.98 ETS 315.79 ZAE 128.60 ETE 197.25 ZAC 132.46 ETC 182.74 CLP-161.32

PLANETOCENTRIC CONIC
 C3 12.743 VHL 3.570 CLA 43.39 RAL 40.03 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.028 DPA -8.40 RAP 42.14 ECC 1.2097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.63 19 14 21 4114.58 -32.81 184.53 267.05 59.84 20 22 56 3514.6 -36.54 176.33
 124.37 2 38 59 2753.77 -32.80 79.73 267.04 59.82 3 24 53 2153.8 -36.53 71.54
 55.63 19 14 21 4114.58 -32.81 184.53 267.05 59.84 20 22 56 3514.6 -36.54 176.33
 124.37 2 38 59 2753.77 -32.80 79.73 267.04 59.82 3 24 53 2153.8 -36.53 71.54
 55.63 19 14 21 4114.58 -32.81 184.53 267.05 59.84 20 22 56 3514.6 -36.54 176.33
 124.37 2 38 59 2753.77 -32.80 79.73 267.04 59.82 3 24 53 2153.8 -36.53 71.54

DIFFERENTIAL CORRECTIONS
 TDE 1.8701 TRA .3329 TC3-6.1981 BAU 1.0576
 RDE .3652 RRA .0721 RC3 -.3452 FAU .05127
 FDE 1.0393 FRA .6604 FC3-3.4831 BSP 17284
 BDE 1.9055 BRA .3406 BC3 6.2077 FSP -960

MID-COURSE EXECUTION ACCURACY
 SGT 5397.5 SGR 655.4 SG3 287.8
 RRT .8387 RRF .8349 RTF .9503
 SGB 5437.1 R23 .0634 R13 .9507
 SG1 5425.5 SG2 355.1 THA 5.84

ORBIT DETERMINATION ACCURACY
 ST 3012.6 SR 588.1 SS 899.0
 CRT .9995 CRS -.9842 CST -.9833
 LSA 3194.5 MSA 157.0 SSA 18.2
 EL1 3069.4 EL2 18.8 ALF 11.04

LAUNCH DATE FEB 6 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 27.026 GAL 1.50 AZL 86.85 HCA 243.39 SMA 124.17 ECC .18984 INC 3.1490 V1 30.201
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.126 GAP 8.21 AZP 91.41 TAL 173.56 TAP 56.95 RCA 100.60 APO 147.74 V2 34.938
 RC 156.704 GL 24.53 GP -20.11 ZAL 83.15 ZAP 153.54 ETS 315.50 ZAE 128.72 ETE 196.27 ZAC 134.39 ETC 182.42 CLP-162.44

PLANETOCENTRIC CONIC
 C3 12.775 VHL 3.574 CLA 42.52 RAL 44.31 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 6.166 DPA -6.61 RAP 43.53 ECC 1.2102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.85 19 36 23 4101.79 -32.19 182.97 270.97 60.57 20 44 45 3501.8 -35.84 174.79
 123.15 2 51 8 2767.61 -32.18 80.54 270.96 60.56 3 37 16 2167.6 -35.83 72.36
 56.85 19 36 23 4101.79 -32.19 182.97 270.97 60.57 20 44 45 3501.8 -35.84 174.79
 123.15 2 51 8 2767.61 -32.18 80.54 270.96 60.56 3 37 16 2167.6 -35.83 72.36
 56.85 19 36 23 4101.79 -32.19 182.97 270.97 60.57 20 44 45 3501.8 -35.84 174.79
 123.15 2 51 8 2767.61 -32.18 80.54 270.96 60.56 3 37 16 2167.6 -35.83 72.36

DIFFERENTIAL CORRECTIONS
 TDE 1.8121 TRA .5224 TC3-6.2883 BAU 1.0753
 RDE .3560 RRA .0828 RC3 -.3133 FAU .04859
 FDE .9383 FRA .7427 FC3-3.2927 BSP 17549
 BDE 1.8467 BRA .5290 BC3 6.2961 FSP -931

MID-COURSE EXECUTION ACCURACY
 SGT 5471.3 SGR 639.0 SG3 278.8
 RRT .8207 RRF .8132 RTF .9508
 SGB 5508.5 R23 .0514 R13 .9511
 SG1 5496.5 SG2 363.4 THA 5.50

ORBIT DETERMINATION ACCURACY
 ST 2928.0 SR 573.2 SS 842.7
 CRT .9992 CRS -.9760 CST -.9811
 LSA 3096.2 MSA 158.3 SSA 19.2
 EL1 2983.5 EL2 23.1 ALF 11.07

LAUNCH DATE FEB 6 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.989 GAL 1.89 AZL 87.05 HCA 246.58 SMA 123.94 ECC .19305 INC 2.9485 V1 30.201
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.111 GAP 8.52 AZP 91.17 TAL 172.07 TAP 58.64 RCA 100.01 APO 147.86 V2 34.951
 RC 158.875 GL 22.70 GP -19.07 ZAL 80.30 ZAP 155.00 ETS 315.08 ZAE 128.82 ETE 195.40 ZAC 136.36 ETC 182.11 CLP-163.53

PLANETOCENTRIC CONIC
 C3 12.926 VHL 3.595 CLA 41.59 RAL 48.56 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.316 DPA -4.93 RAP 45.03 ECC 1.2127
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.17 19 58 55 4089.10 -31.47 181.39 274.97 61.27 21 7 4 3489.1 -35.03 173.23
 121.83 3 2 32 2785.34 -31.46 81.62 274.97 61.26 3 48 57 2185.3 -35.02 73.47
 58.17 19 58 55 4089.10 -31.47 181.39 274.97 61.27 21 7 4 3489.1 -35.03 173.23
 121.83 3 2 32 2785.34 -31.46 81.62 274.97 61.26 3 48 57 2185.3 -35.02 73.47
 58.17 19 58 55 4089.10 -31.47 181.39 274.97 61.27 21 7 4 3489.1 -35.03 173.23
 121.83 3 2 32 2785.34 -31.46 81.62 274.97 61.26 3 48 57 2185.3 -35.02 73.47

DIFFERENTIAL CORRECTIONS
 TDE 1.7432 TRA .7206 TC3-6.3153 BAU 1.0924
 RDE .3489 RRA .0934 RC3 -.2847 FAU .04595
 FDE .8382 FRA .8185 FC3-3.0778 BSP 17816
 BDE 1.7778 BRA .7267 BC3 6.3217 FSP -902

MID-COURSE EXECUTION ACCURACY
 SGT 5540.4 SGR 625.1 SG3 269.4
 RRT .8027 RRF .7916 RTF .9515
 SGB 5575.5 R23 .0408 R13 .9518
 SG1 5563.2 SG2 371.2 THA 5.20

ORBIT DETERMINATION ACCURACY
 ST 2819.3 SR 559.3 SS 783.7
 CRT .9977 CRS -.9642 CST -.9783
 LSA 2974.7 MSA 161.7 SSA 20.0
 EL1 2874.0 EL2 37.5 ALF 11.20

LAUNCH DATE FEB 6 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.951 GAL 2.29 AZL 87.24 HCA 249.77 SMA 123.70 ECC .19650 INC 2.7572 V1 30.201
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.096 GAP 8.85 AZP 90.95 TAL 170.57 TAP 60.34 RCA 99.40 APO 148.01 V2 34.964
 RC 161.027 GL 20.89 GP -18.13 ZAL 77.40 ZAP 156.37 ETS 314.53 ZAE 128.89 ETE 194.61 ZAC 138.36 ETC 181.79 CLP-164.59

PLANETOCENTRIC CONIC
 C3 13.200 VHL 3.633 CLA 40.60 RAL 52.75 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 6.477 DPA -3.36 RAP 46.60 ECC 1.2172
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.60 20 21 54 4076.20 -30.64 179.75 279.05 61.95 21 29 50 3476.2 -34.12 171.64
 120.40 3 12 57 2807.31 -30.63 82.99 279.04 61.93 3 59 45 2207.3 -34.12 74.87
 59.60 20 21 54 4076.20 -30.64 179.75 279.05 61.95 21 29 50 3476.2 -34.12 171.64
 120.40 3 12 57 2807.31 -30.63 82.99 279.04 61.93 3 59 45 2207.3 -34.12 74.87
 59.60 20 21 54 4076.20 -30.64 179.75 279.05 61.95 21 29 50 3476.2 -34.12 171.64
 120.40 3 12 57 2807.31 -30.63 82.99 279.04 61.93 3 59 45 2207.3 -34.12 74.87

DIFFERENTIAL CORRECTIONS
 TDE 1.6659 TRA .9295 TC3-6.2733 BAU 1.1080
 RDE .3441 RRA .1043 RC3 -.2579 FAU .04329
 FDE .7425 FRA .8899 FC3-2.8392 BSP 18063
 BDE 1.7011 BRA .9353 BC3 6.2786 FSP -873

MID-COURSE EXECUTION ACCURACY
 SGT 5604.3 SGR 613.7 SG3 259.8
 RRT .7846 RRF .7708 RTF .9523
 SGB 5637.8 R23 .0327 R13 .9525
 SG1 5625.0 SG2 379.1 THA 4.93

ORBIT DETERMINATION ACCURACY
 ST 2693.8 SR 546.6 SS 725.9
 CRT .9944 CRS -.9476 CST -.9748
 LSA 2837.8 MSA 168.0 SSA 20.5
 EL1 2748.1 EL2 56.6 ALF 11.41

LAUNCH DATE FEB 6 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 524.914
 RL 147.53 LAL .00 LOL 137.03 VL 26.914 GAL 2.71 AZL 87.43 HCA 252.96 SMA 123.47 ECC .20022 INC 2.5735 V1 30.201
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.081 GAP 9.18 AZP 90.75 TAL 169.07 TAP 62.02 RCA 98.75 APO 148.20 V2 34.977
 RC 163.161 GL 19.10 GP -17.28 ZAL 74.47 ZAP 157.66 ETS 313.83 ZAE 128.95 ETE 193.92 ZAC 140.40 ETC 181.46 CLP-165.62

PLANETOCENTRIC CONIC

C3 13.604 VHL 3.688 OLA 39.55 RAL 56.85 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 6.649 DPA -1.87 RAP 48.26 ECC 1.2239
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.16 20 45 21 4062.72 -29.70 178.04 283.16 62.60 21 53 3 3462.7 -33.12 169.98
 118.84 3 22 11 2833.90 -29.69 84.67 283.15 62.58 4 9 25 2233.9 -33.11 76.61
 61.16 20 45 21 4062.72 -29.70 178.04 283.16 62.60 21 53 3 3462.7 -33.12 169.98
 118.84 3 22 11 2833.90 -29.69 84.67 283.15 62.58 4 9 25 2233.9 -33.11 76.61
 61.16 20 45 21 4062.72 -29.70 178.04 283.16 62.60 21 53 3 3462.7 -33.12 169.98
 118.84 3 22 11 2833.90 -29.69 84.67 283.15 62.58 4 9 25 2233.9 -33.11 76.61

DIFFERENTIAL CORRECTIONS

TDE 1.5832 TRA 1.1528 TC3-6.1564 BAU 1.1205
 RDE .3416 RRA .1160 RC3 -.2324 FAU .04056
 FDE .6531 FRA .9597 FC3-2.5811 BSP 18209
 BDE 1.6196 BRA 1.1587 BC3 6.1608 FSP -839

MID-COURSE EXECUTION ACCURACY

SGT 5662.7 SGR 604.7 SG3 250.3
 RRT .7671 RRF .7517 RTF .9529
 SGB 5694.9 R23 .0270 R13 .9531
 SG1 5681.8 SG2 386.6 THA 4.70

ORBIT DETERMINATION ACCURACY

ST 2559.7 SR 535.3 SS 672.1
 CRT .9886 CRS -.9250 CST -.9706
 LSA 2694.2 MSA 177.8 SSA 20.7
 EL1 2613.9 EL2 78.9 ALF 11.69

LAUNCH DATE FEB 6 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 530.640
 RL 147.53 LAL .00 LOL 137.03 VL 26.877 GAL 3.15 AZL 87.60 HCA 256.15 SMA 123.24 ECC .20423 INC 2.3959 V1 30.201
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.066 GAP 9.53 AZP 90.57 TAL 167.56 TAP 63.71 RCA 98.07 APO 148.41 V2 34.990
 RC 165.276 GL 17.35 GP -16.51 ZAL 71.53 ZAP 158.87 ETS 312.97 ZAE 128.99 ETE 193.29 ZAC 142.46 ETC 181.10 CLP-166.64

PLANETOCENTRIC CONIC

C3 14.146 VHL 3.761 OLA 38.44 RAL 60.83 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 6.833 DPA -.46 RAP 49.98 ECC 1.2328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.84 21 9 17 4048.21 -28.68 176.23 287.28 63.22 22 16 45 3448.2 -32.02 168.22
 117.16 3 30 0 2865.55 -28.66 86.71 287.28 63.21 4 17 45 2265.6 -32.01 78.70
 62.84 21 9 17 4048.21 -28.68 176.23 287.28 63.22 22 16 45 3448.2 -32.02 168.22
 117.16 3 30 0 2865.55 -28.66 86.71 287.28 63.21 4 17 45 2265.6 -32.01 78.70
 62.84 21 9 17 4048.21 -28.68 176.23 287.28 63.22 22 16 45 3448.2 -32.02 168.22
 117.16 3 30 0 2865.55 -28.66 86.71 287.28 63.21 4 17 45 2265.6 -32.01 78.70

DIFFERENTIAL CORRECTIONS

TDE 1.4869 TRA 1.3837 TC3-5.9915 BAU 1.1338
 RDE .3400 RRA .1279 RC3 -.2107 FAU .03802
 FDE .5643 FRA 1.0230 FC3-2.3269 BSP 18434
 BDE 1.5253 BRA 1.3896 BC3 5.9952 FSP -810

MID-COURSE EXECUTION ACCURACY

SGT 5717.1 SGR 596.0 SG3 240.7
 RRT .7504 RRF .7333 RTF .9537
 SGB 5748.1 R23 .0215 R13 .9538
 SG1 5734.7 SG2 392.8 THA 4.49

ORBIT DETERMINATION ACCURACY

ST 2408.5 SR 523.3 SS 618.5
 CRT .9791 CRS -.8936 CST -.9653
 LSA 2533.8 MSA 191.5 SSA 20.6
 EL1 2462.5 EL2 104.0 ALF 12.03

LAUNCH DATE FEB 6 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 536.337
 RL 147.53 LAL .00 LOL 137.03 VL 26.840 GAL 3.61 AZL 87.78 HCA 259.34 SMA 123.02 ECC .20855 INC 2.2230 V1 30.201
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.052 GAP 9.90 AZP 90.41 TAL 166.05 TAP 65.40 RCA 97.36 APO 148.67 V2 35.003
 RC 167.370 GL 15.65 GP -15.82 ZAL 68.60 ZAP 160.02 ETS 311.95 ZAE 129.02 ETE 192.73 ZAC 144.55 ETC 180.72 CLP-167.64

PLANETOCENTRIC CONIC

C3 14.839 VHL 3.852 OLA 37.29 RAL 64.66 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 7.028 DPA .86 RAP 51.77 ECC 1.2442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.66 21 33 43 4032.28 -27.56 174.29 291.41 63.83 22 40 55 3432.3 -30.84 166.35
 115.34 3 36 11 2902.68 -27.55 89.13 291.40 63.81 4 24 34 2302.7 -30.83 81.18
 64.66 21 33 43 4032.28 -27.56 174.29 291.41 63.83 22 40 55 3432.3 -30.84 166.35
 115.34 3 36 11 2902.68 -27.55 89.13 291.40 63.81 4 24 34 2302.7 -30.83 81.18
 64.66 21 33 43 4032.28 -27.56 174.29 291.41 63.83 22 40 55 3432.3 -30.84 166.35
 115.34 3 36 11 2902.68 -27.55 89.13 291.40 63.81 4 24 34 2302.7 -30.83 81.18

DIFFERENTIAL CORRECTIONS

TDE 1.3833 TRA 1.6266 TC3-5.7731 BAU 1.1459
 RDE .3399 RRA .1405 RC3 -.1909 FAU .03555
 FDE .4807 FRA 1.0832 FC3-2.0741 BSP 18643
 BDE 1.4244 BRA 1.6326 BC3 5.7762 FSP -782

MID-COURSE EXECUTION ACCURACY

SGT 5767.3 SGR 588.4 SG3 231.3
 RRT .7346 RRF .7164 RTF .9545
 SGB 5797.3 R23 .0174 R13 .9546
 SG1 5783.6 SG2 398.1 THA 4.31

ORBIT DETERMINATION ACCURACY

ST 2254.6 SR 511.7 SS 570.5
 CRT .9645 CRS -.8520 CST -.9592
 LSA 2372.0 MSA 209.2 SSA 20.2
 EL1 2308.1 EL2 132.1 ALF 12.39

LAUNCH DATE FEB 6 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 542.002
 RL 147.53 LAL .00 LOL 137.03 VL 26.803 GAL 4.09 AZL 87.95 HCA 262.54 SMA 122.79 ECC .21322 INC 2.0535 V1 30.201
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.038 GAP 10.28 AZP 90.27 TAL 164.54 TAP 67.08 RCA 96.61 APO 148.97 V2 35.016
 RC 169.445 GL 13.99 GP -15.19 ZAL 65.72 ZAP 161.10 ETS 310.73 ZAE 129.04 ETE 192.22 ZAC 146.66 ETC 180.30 CLP-168.62

PLANETOCENTRIC CONIC

C3 15.696 VHL 3.962 OLA 36.10 RAL 68.35 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 7.236 DPA 2.12 RAP 53.62 ECC 1.2583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.61 21 58 44 4014.36 -26.38 172.20 295.51 64.41 23 5 39 3414.4 -29.59 164.32
 113.39 3 40 32 2945.82 -26.37 91.96 295.51 64.40 4 29 38 2345.8 -29.58 84.08
 66.61 21 58 44 4014.36 -26.38 172.20 295.51 64.41 23 5 39 3414.4 -29.59 164.32
 113.39 3 40 32 2945.82 -26.37 91.96 295.51 64.40 4 29 38 2345.8 -29.58 84.08
 66.61 21 58 44 4014.36 -26.38 172.20 295.51 64.41 23 5 39 3414.4 -29.59 164.32
 113.39 3 40 32 2945.82 -26.37 91.96 295.51 64.40 4 29 38 2345.8 -29.58 84.08

DIFFERENTIAL CORRECTIONS

TDE 1.2724 TRA 1.8827 TC3-5.5077 BAU 1.1563
 RDE .3411 RRA .1538 RC3 -.1728 FAU .03315
 FDE .4021 FRA 1.1412 FC3-1.8282 BSP 18831
 BDE 1.3173 BRA 1.8890 BC3 5.5105 FSP -755

MID-COURSE EXECUTION ACCURACY

SGT 5812.7 SGR 581.2 SG3 222.1
 RRT .7201 RRF .7010 RTF .9553
 SGB 5841.7 R23 .0141 R13 .9554
 SG1 5827.8 SG2 402.2 THA 4.14

ORBIT DETERMINATION ACCURACY

ST 2103.7 SR 500.1 SS 528.8
 CRT .9426 CRS -.7980 CST -.9527
 LSA 2214.0 MSA 230.9 SSA 19.6
 EL1 2156.2 EL2 163.0 ALF 12.70

LAUNCH DATE FEB 6 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 547.631

RL 147.53 LAL .00 LOL 137.03 VL 26.766 GAL 4.60 AZL 88.11 HCA 265.74 SMA 122.57 ECC .21825 INC 1.8864 VI 30.201
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.024 GAP 10.68 A7P 90.14 TAL 163.04 TAP 68.78 RCA 95.82 APO 149.32 V2 35.030
 RC 171.498 GL 12.40 GP -14.62 ZAL 62.89 ZAP 162.12 ETS 309.32 ZAE 129.06 ETE 191.77 ZAC 148.79 ETC 179.83 CLP-169.58

PLANETOCENTRIC CONIC

C3 16.735 VHL 4.091 DLA 34.89 RAL 71.86 RAD 6567.7 VEL 11.752 PTH 2.07 VHP 7.458 CPA 3.30 RAP 55.52 ECC 1.2754
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.71 22 24 33 3993.61 -25.13 169.90 299.60 64.96 23 31 6 3393.6 -28.29 162.08
 111.29 3 42 45 2995.80 -25.12 95.28 299.59 64.95 4 32 41 2395.8 -28.28 87.47
 68.71 22 24 33 3993.61 -25.13 169.90 299.60 64.96 23 31 6 3393.6 -28.29 162.08
 111.29 3 42 45 2995.80 -25.12 95.28 299.59 64.95 4 32 41 2395.8 -28.28 87.47
 68.71 22 24 33 3993.61 -25.13 169.90 299.60 64.96 23 31 6 3393.6 -28.29 162.08
 111.29 3 42 45 2995.80 -25.12 95.28 299.59 64.95 4 32 41 2395.8 -28.28 87.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1582 TRA 2.1552 TC3-5.1974 BAU 1.1633
 RDE .3436 RRA .1681 RC3 -.1552 FAU .03071
 FDE .3300 FRA 1.1984 FC3-1.5889 BSP 18931
 BDE 1.2081 BRA 2.1617 BC3 5.1997 FSP -724

SGT 5852.9 SGR 574.6 SG3 213.2
 RRT .7069 RRF .6876 RTF .9559
 SGB 5881.0 R23 .0121 R13 .9560
 SG1 5867.1 SG2 405.4 THA 3.99

ST 1966.4 SR 488.9 SS 495.8
 CRT .9114 CRS -.7323 CST -.9468
 LSA 2070.2 MSA 255.9 SSA 18.8
 EL1 2016.7 EL2 196.1 ALF 12.89

LAUNCH DATE FEB 6 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 553.219

RL 147.53 LAL .00 LOL 137.03 VL 26.730 GAL 5.14 AZL 88.28 HCA 268.94 SMA 122.35 ECC .22369 INC 1.7205 VI 30.201
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.010 GAP 11.10 A7P 90.03 TAL 161.54 TAP 70.48 RCA 94.98 APO 149.71 V2 35.043
 RC 173.532 GL 10.87 GP -14.10 ZAL 60.14 ZAP 163.08 ETS 307.67 ZAE 129.07 ETE 191.36 ZAC 150.93 ETC 179.29 CLP-170.54

PLANETOCENTRIC CONIC

C3 17.978 VHL 4.240 DLA 33.67 RAL 75.20 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 7.694 CPA 4.42 RAP 57.47 ECC 1.2959
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.98 22 51 25 3968.94 -23.85 167.32 303.64 65.50 23 57 33 3368.9 -26.94 159.57
 109.02 3 42 30 3053.63 -23.83 99.15 303.64 65.48 4 33 24 2453.6 -26.93 91.40
 70.98 22 51 25 3968.94 -23.85 167.32 303.64 65.50 23 57 33 3368.9 -26.94 159.57
 109.02 3 42 30 3053.63 -23.83 99.15 303.64 65.48 4 33 24 2453.6 -26.93 91.40
 110.00 4 33 22 2898.09 -27.81 88.89 305.48 69.28 5 21 40 2298.1 -30.37 80.63
 110.00 3 3 39 3172.47 -19.98 106.33 301.58 61.67 3 56 32 2572.5 -23.61 99.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0344 TRA 2.4380 TC3-4.8689 BAU 1.1707
 RDE .3468 RRA .1829 RC3 -.1400 FAU .02848
 FDE .2608 FRA 1.2515 FC3-1.3714 BSP 19106
 BDE 1.0910 BRA 2.4449 BC3 4.8709 FSP -698

SGT 5888.2 SGR 567.3 SG3 204.6
 RRT .6947 RRF .6749 RTF .9567
 SGB 5915.5 R23 .0099 R13 .9568
 SG1 5901.5 SG2 407.2 THA 3.85

ST 1838.4 SR 477.0 SS 468.7
 CRT .8681 CRS -.6529 CST -.9420
 LSA 1935.5 MSA 283.2 SSA 18.0
 EL1 1885.2 EL2 230.9 ALF 12.89

LAUNCH DATE FEB 6 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 558.761

RL 147.53 LAL .00 LOL 137.03 VL 26.693 GAL 5.71 AZL 88.45 HCA 272.15 SMA 122.13 ECC .22958 INC 1.5548 VI 30.201
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.996 GAP 11.54 A7P 89.94 TAL 160.04 TAP 72.19 RCA 94.09 APO 150.17 V2 35.056
 RC 175.544 GL 9.41 GP -13.62 ZAL 57.48 ZAP 163.98 ETS 305.78 ZAE 129.07 ETE 190.99 ZAC 153.09 ETC 178.66 CLP-171.48

PLANETOCENTRIC CONIC

C3 19.451 VHL 4.410 DLA 32.45 RAL 78.35 RAD 6567.8 VEL 11.867 PTH 2.11 VHP 7.947 CPA 5.47 RAP 59.46 ECC 1.3201
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.46 23 19 46 3938.73 -22.52 164.34 307.65 66.00 24 25 25 3338.7 -25.57 156.66
 106.54 3 39 18 3120.85 -22.51 103.68 307.65 65.99 4 31 19 2520.8 -25.56 95.99
 73.46 23 19 46 3938.73 -22.52 164.34 307.65 66.00 24 25 25 3338.7 -25.57 156.66
 106.54 3 39 18 3120.85 -22.51 103.68 307.65 65.99 4 31 19 2520.8 -25.56 95.99
 110.00 5 23 14 2800.15 -29.98 82.10 310.78 72.76 6 9 55 2200.2 -32.05 73.49
 110.00 2 38 56 3307.43 -15.44 114.15 303.77 59.12 3 34 4 2707.4 -19.42 107.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9052 TRA 2.7363 TC3-4.5216 BAU 1.1762
 RDE .3508 RRA .1983 RC3 -.1259 FAU .02633
 FDE .1961 FRA 1.3034 FC3-1.1717 BSP 19266
 BDE .9708 BRA 2.7435 BC3 4.5233 FSP -673

SGT 5918.9 SGR 559.7 SG3 196.2
 RRT .6837 RRF .6634 RTF .9576
 SGB 5945.3 R23 .0078 R13 .9576
 SG1 5931.3 SG2 407.6 THA 3.72

ST 1730.4 SR 464.9 SS 449.3
 CRT .8106 CRS -.5632 CST -.9397
 LSA 1820.7 MSA 311.4 SSA 17.2
 EL1 1771.9 EL2 265.8 ALF 12.57

LAUNCH DATE FEB 6 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 564.251

RL 147.53 LAL .00 LOL 137.03 VL 26.657 GAL 6.31 AZL 88.61 HCA 275.36 SMA 121.91 ECC .23597 INC 1.3883 VI 30.201
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.983 GAP 12.01 A7P 89.87 TAL 158.56 TAP 73.92 RCA 93.14 APO 150.68 V2 35.069
 RC 177.535 GL 8.02 GP -13.18 ZAL 54.92 ZAP 164.83 ETS 303.61 ZAE 129.06 ETE 190.65 ZAC 155.25 ETC 177.93 CLP-172.42

PLANETOCENTRIC CONIC

C3 21.185 VHL 4.603 DLA 31.24 RAL 81.32 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 8.218 CPA 6.47 RAP 61.49 ECC 1.3487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.23 23 50 31 3900.02 -21.18 160.77 311.62 66.49 24 55 31 3300.0 -24.18 153.14
 103.77 3 32 16 3200.32 -21.17 109.08 311.62 66.48 4 25 37 2600.3 -24.17 101.46
 76.23 23 50 31 3900.02 -21.18 160.77 311.62 66.49 24 55 31 3300.0 -24.18 153.14
 103.77 3 32 16 3200.32 -21.17 109.08 311.62 66.48 4 25 37 2600.3 -24.17 101.46
 110.00 5 59 40 2741.66 -31.09 77.90 315.47 75.02 6 45 21 2141.7 -32.83 69.11
 110.00 2 26 14 3406.68 -11.89 119.66 306.50 57.71 3 23 0 2806.7 -16.07 113.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7717 TRA 3.0512 TC3-4.1627 BAU 1.1794
 RDE .3557 RRA .2145 RC3 -.1125 FAU .02422
 FDE .1366 FRA 1.3550 FC3 -.9899 BSP 19403
 BDE .8498 BRA 3.0588 BC3 4.1642 FSP -648

SGT 5944.7 SGR 551.7 SG3 188.3
 RRT .6737 RRF .6534 RTF .9584
 SGB 5970.3 R23 .0064 R13 .9584
 SG1 5956.4 SG2 406.9 THA 3.59

ST 1646.8 SR 452.7 SS 437.6
 CRT .7387 CRS -.4689 CST -.9410
 LSA 1730.3 MSA 337.8 SSA 16.5
 EL1 1681.6 EL2 298.8 ALF 11.86

LAUNCH DATE FEB 6 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 569.681

RL 147.53 LAL .00 LCL 137.03 VL 26.621 GAL 6.94 AZL 88.78 HCA 278.57 SMA 121.70 ECC .24290 INC 1.2199 V1 30.201
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.969 GAP 12.52 AZP 89.82 TAL 157.09 TAP 75.66 RCA 92.14 APO 151.26 V2 35.083
 RC 179.506 GL 6.71 GP -12.79 ZAL 52.47 ZAP 165.62 ETS 301.14 ZAE 129.05 ETE 190.34 ZAC 157.42 ETC 177.04 CLP-173.36

PLANETOCENTRIC CONIC

C3 23.218 VHL 4.818 CLA 30.04 RAL 84.11 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 8.508 CPA 7.40 RAP 63.56 ECC 1.3821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.52 0 29 33 3846.21 -19.83 156.12 315.55 66.96 1 33 39 3246.2 -22.78 148.55
 100.48 3 19 26 3298.51 -19.82 115.81 315.54 66.95 4 14 24 2698.5 -22.77 108.25
 79.52 0 29 33 3846.21 -19.83 156.12 315.55 66.96 1 33 39 3246.2 -22.78 148.55
 100.48 3 19 26 3298.51 -19.82 115.81 315.54 66.95 4 14 24 2698.5 -22.77 108.25
 110.00 6 30 11 2699.97 -31.78 74.85 319.90 76.70 7 15 11 2100.0 -33.28 65.94
 110.00 2 17 59 3492.75 -8.72 124.30 309.44 56.82 3 16 12 2892.7 -13.03 117.86

DIFFERENTIAL CORRECTIONS

TDE .6377 TRA 3.3879 TC3-3.7935 BAU 1.1779
 RDE .3617 RRA .2317 RC3 -.0993 FAU .02210
 FDE .0831 FRA 1.4080 FC3 -.8242 BSP 19437
 BDE .7332 BRA 3.3958 BC3 3.7948 FSP -620

MID-COURSE EXECUTION ACCURACY

SGT 5966.4 SGR 543.5 SG3 180.8
 RRT .6652 RRF .6452 RTF .9592
 SGB 5991.1 R23 .0056 R13 .9593
 SG1 5977.4 SG2 405.1 THA 3.48

ORBIT DETERMINATION ACCURACY

ST 1592.6 SR 440.6 SS 433.0
 CRT .6553 CRS -.3775 CST -.9462
 LSA 1669.8 MSA 359.9 SSA 15.8
 EL1 1619.7 EL2 327.2 ALF 10.72

LAUNCH DATE FEB 6 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 575.040

RL 147.53 LAL .00 LCL 137.03 VL 26.586 GAL 7.62 AZL 88.95 HCA 281.78 SMA 121.49 ECC .25043 INC 1.0486 V1 30.201
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.956 GAP 13.05 AZP 89.79 TAL 155.64 TAP 77.42 RCA 91.06 APO 151.91 V2 35.095
 RC 181.455 GL 5.47 GP -12.42 ZAL 50.13 ZAP 166.35 ETS 298.33 ZAE 129.03 ETE 190.05 ZAC 159.59 ETC 175.97 CLP-174.29

PLANETOCENTRIC CONIC

C3 25.594 VHL 5.059 CLA 28.88 RAL 86.73 RAD 6568.0 VEL 12.123 PTH 2.17 VHP 8.820 CPA 8.27 RAP 65.66 ECC 1.4212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.07 1 15 44 3755.43 -18.49 148.80 319.43 67.41 2 18 20 3155.4 -21.39 141.29
 95.93 2 54 6 3437.13 -18.47 125.47 319.43 67.40 3 51 23 2837.1 -21.38 117.96
 100.00 4 31 30 3124.23 -24.19 104.63 321.70 71.88 5 23 34 2524.2 -26.44 96.56
 100.00 2 21 1 3543.57 -12.96 130.66 316.77 62.83 3 20 5 2943.6 -16.50 123.66
 110.00 6 56 53 2669.00 -32.25 72.55 324.16 77.99 7 41 22 2069.0 -33.56 63.57
 110.00 2 12 7 3571.56 -5.76 128.49 312.49 56.25 3 11 39 2971.6 -10.16 122.16

DIFFERENTIAL CORRECTIONS

TDE .4947 TRA 3.7389 TC3-3.4363 BAU 1.1762
 RDE .3679 RRA .2489 RC3 -.0876 FAU .02017
 FDE .0313 FRA 1.4588 FC3 -.6822 BSP 19557
 BDE .6165 BRA 3.7472 BC3 3.4374 FSP -598

MID-COURSE EXECUTION ACCURACY

SGT 5982.4 SGR 533.9 SG3 173.6
 RRT .6570 RRF .6370 RTF .9603
 SGB 6006.2 R23 .0042 R13 .9604
 SG1 5992.7 SG2 401.8 THA 3.37

ORBIT DETERMINATION ACCURACY

ST 1558.7 SR 427.7 SS 432.5
 CRT .5608 CRS -.2863 CST -.9532
 LSA 1630.2 MSA 376.6 SSA 15.1
 EL1 1578.0 EL2 349.7 ALF 9.20

LAUNCH DATE FEB 6 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 580.319

RL 147.53 LAL .00 LCL 137.03 VL 26.551 GAL 8.34 AZL 89.13 HCA 284.99 SMA 121.28 ECC .25864 INC .8730 V1 30.201
 RP 107.94 LAP -1.84 LOP 62.03 VP 36.943 GAP 13.62 AZP 89.77 TAL 154.22 TAP 79.21 RCA 89.91 APO 152.65 V2 35.108
 RC 183.384 GL 4.31 GP -12.09 ZAL 47.92 ZAP 167.02 ETS 295.16 ZAE 128.99 ETE 189.79 ZAC 161.75 ETC 174.63 CLP-175.23

PLANETOCENTRIC CONIC

C3 28.369 VHL 5.326 CLA 27.75 RAL 89.17 RAD 6568.1 VEL 12.237 PTH 2.20 VHP 9.157 CPA 9.09 RAP 67.79 ECC 1.4669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 20 3460.28 -21.40 128.34 324.96 71.00 4 2 0 2860.3 -23.80 120.49
 90.00 1 25 0 3783.42 -12.99 148.31 321.37 64.61 2 28 3 3183.4 -16.30 141.20
 100.00 5 10 45 3052.71 -25.61 99.80 326.41 74.04 6 1 38 2452.7 -27.56 91.54
 100.00 2 1 15 3666.21 -9.05 137.66 319.33 61.39 3 2 21 3066.2 -12.80 130.88
 110.00 7 20 42 2646.01 -32.56 70.83 328.32 78.96 8 4 48 2046.0 -33.74 61.79
 110.00 2 7 47 3645.68 -2.95 132.38 315.60 55.93 3 8 33 3045.7 -7.40 126.12

DIFFERENTIAL CORRECTIONS

TDE .3476 TRA 4.1109 TC3-3.0875 BAU 1.1713
 RDE .3746 RRA .2667 RC3 -.0766 FAU .01830
 FDE -.0167 FRA 1.5104 FC3 -.5584 BSP 19668
 BDE .5111 BRA 4.1196 BC3 3.0884 FSP -576

MID-COURSE EXECUTION ACCURACY

SGT 5993.9 SGR 523.6 SG3 166.8
 RRT .6496 RRF .6298 RTF .9616
 SGB 6016.7 R23 .0031 R13 .9616
 SG1 6003.6 SG2 397.4 THA 3.26

ORBIT DETERMINATION ACCURACY

ST 1548.2 SR 414.6 SS 436.2
 CRT .4623 CRS -.2029 CST -.9615
 LSA 1615.5 MSA 386.2 SSA 14.4
 EL1 1560.7 EL2 364.7 ALF 7.47

LAUNCH DATE FEB 6 1969

FLIGHT TIME 204.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 585.503

RL 147.53 LAL .00 LCL 137.03 VL 26.516 GAL 9.11 AZL 89.31 HCA 288.21 SMA 121.08 ECC .26761 INC .6919 V1 30.201
 RP 107.90 LAP -.66 LOP 65.24 VP 36.929 GAP 14.24 AZP 89.78 TAL 152.82 TAP 81.03 RCA 88.68 APO 153.48 V2 35.120
 RC 185.291 GL 3.22 GP -11.78 ZAL 45.83 ZAP 167.62 ETS 291.59 ZAE 128.94 ETE 189.55 ZAC 163.89 ETC 172.93 CLP-176.17

PLANETOCENTRIC CONIC

C3 31.608 VHL 5.622 CLA 26.66 RAL 91.44 RAD 6568.3 VEL 12.369 PTH 2.23 VHP 9.521 CPA 9.85 RAP 69.94 ECC 1.5202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 48 37 3370.99 -23.26 122.46 329.81 73.38 4 44 48 2771.0 -25.32 114.40
 90.00 0 58 52 3926.90 -8.66 156.63 323.74 62.94 2 4 19 3326.9 -12.22 149.76
 100.00 5 41 19 3007.66 -26.42 96.70 330.78 75.48 6 31 27 2407.7 -28.16 88.32
 100.00 1 48 51 3765.47 -5.77 143.21 322.18 60.62 2 51 36 3165.5 -9.64 136.56
 110.00 7 42 11 2629.48 -32.77 69.58 332.39 79.67 8 26 0 2029.5 -33.84 60.51
 110.00 2 4 28 3716.42 -.24 136.07 318.75 55.82 3 6 25 3116.4 -4.73 129.85

DIFFERENTIAL CORRECTIONS

TDE .1967 TRA 4.5058 TC3-2.7506 BAU 1.1627
 RDE .3820 RRA .2846 RC3 -.0661 FAU .01648
 FDE -.0610 FRA 1.5633 FC3 -.4515 BSP 19756
 BDE .4296 BRA 4.5148 BC3 2.7514 FSP -555

MID-COURSE EXECUTION ACCURACY

SGT 6000.6 SGR 512.2 SG3 160.2
 RRT .6428 RRF .6233 RTF .9630
 SGB 6022.4 R23 .0021 R13 .9631
 SG1 6009.6 SG2 391.8 THA 3.15

ORBIT DETERMINATION ACCURACY

ST 1557.2 SR 401.3 SS 443.1
 CRT .6564 CRS -.1291 CST -.9697
 LSA 1622.1 MSA 388.6 SSA 13.8
 EL1 1564.5 EL2 371.8 ALF 5.70

LAUNCH DATE FEB 6 1969

FLIGHT TIME 206.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.482 GAL 9.94 AZL 89.50 HCA 291.43 SMA 120.88 ECC .27743 INC .5039 V1 30.201
 RP 107.87 LAP -.47 LOP 68.46 VP 36.916 GAP 14.90 A7P 89.82 TAL 151.45 TAP 82.88 RCA 87.34 APO 154.41 V2 35.132
 RC 187.175 GL 2.21 GP -11.50 ZAL 43.87 ZAP 168.15 ETS 287.60 ZAE 128.87 ETE 189.32 ZAC 166.02 ETC 170.71 CLP-177.12

PLANETOCENTRIC CONIC
 C3 35.394 VHL 5.949 CLA 25.61 RAL 93.56 RAD 6568.4 VEL 12.521 PTH 2.27 VHP 9.917 OPA 10.55 RAP 72.10 ECC 1.5825
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 20 30 3320.46 -24.20 119.06 334.19 74.83 5 15 51 2720.5 -26.05 110.88
 90.00 0 43 50 4034.48 -5.28 162.72 326.52 62.14 1 51 5 3434.5 -8.97 155.99
 100.00 6 7 6 2976.80 -26.93 94.54 334.96 76.51 6 56 43 2376.8 -28.52 86.10
 100.00 1 39 56 3853.38 -2.81 148.06 325.16 60.23 2 44 9 3253.4 -6.76 141.49
 110.00 8 1 40 2618.39 -32.90 68.75 336.38 80.15 8 45 18 2018.4 -33.91 59.65
 110.00 2 1 52 3784.56 2.36 139.63 321.94 55.89 3 4 56 3184.6 -2.13 133.42

DIFFERENTIAL CORRECTIONS
 TDE .0412 TRA 4.9261 TC3-2.4289 BAU 1.1496 SGT 6002.9 SGR 499.9 SG3 154.1 ST 1581.2 SR 387.7 SS 452.3
 RDE .3898 RRA .3027 RC3 -.0563 FAU .01471 RRT .6362 RRF .6174 RTF .9647 CRT .2742 CRS -.0652 CST -.9770
 FDE -.1023 FRA 1.6183 FC3 -.3598 BSP 19826 SGB 6023.6 R23 .0015 R13 .9647 LSA 1645.3 MSA 384.9 SSA 13.2
 BDE .3920 BRA 4.9354 BC3 2.4296 FSP -.534 SG1 6011.3 SG2 385.2 THA 3.05 EL1 1585.0 EL2 372.0 ALF 4.07

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.448 GAL 10.83 AZL 89.69 HCA 294.65 SMA 120.68 ECC .28820 INC .3071 V1 30.201
 RP 107.83 LAP -.28 LOP 71.68 VP 36.903 GAP 15.62 A7P 89.87 TAL 150.13 TAP 84.78 RCA 85.90 APO 155.46 V2 35.144
 RC 189.037 GL 1.27 GP -11.24 ZAL 42.03 ZAP 168.60 ETS 283.18 ZAE 128.78 ETE 189.10 ZAC 168.10 ETC 167.69 CLP-174.09

PLANETOCENTRIC CONIC
 C3 39.827 VHL 6.311 CLA 24.61 RAL 95.52 RAD 6568.5 VEL 12.696 PTH 2.31 VHP 10.348 OPA 11.20 RAP 74.28 ECC 1.6554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 43 3287.23 -24.77 116.79 338.35 75.83 5 41 30 2687.2 -26.48 108.54
 90.00 0 33 16 4127.34 -2.31 167.93 329.47 61.77 1 42 3 3527.3 -6.06 161.26
 100.00 6 29 35 2955.57 -27.26 93.05 339.02 77.23 7 18 51 2355.6 -28.74 84.56
 100.00 1 33 5 3934.23 -.07 152.50 328.23 60.11 2 38 39 3334.2 -4.05 145.97
 110.00 8 19 24 2612.01 -32.97 68.26 340.32 80.43 9 2 56 2012.0 -33.94 59.16
 110.00 1 59 46 3850.56 4.87 143.08 325.15 56.12 3 3 56 3250.6 .39 136.86

DIFFERENTIAL CORRECTIONS
 TDE -.1158 TRA 5.3776 TC3-2.1215 BAU 1.1299 SGT 6001.6 SGR 486.8 SG3 148.3 ST 1616.5 SR 374.2 SS 463.3
 RDE .3983 RRA .3208 RC3 -.0469 FAU .01293 RRT .6302 RRF .6124 RTF .9665 CRT .1934 CRS -.0125 CST -.9831
 FDE -.1397 FRA 1.6767 FC3 -.2810 BSP 19800 SGB 6021.4 R23 .0012 R13 .9665 LSA 1681.0 MSA 376.5 SSA 12.7
 BDE .4148 BRA 5.3871 BC3 2.1220 FSP -.511 SG1 6009.5 SG2 377.4 THA 2.94 EL1 1618.2 EL2 366.7 ALF 2.70

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.415 GAL 11.79 AZL 89.90 HCA 297.87 SMA 120.49 ECC .30005 INC .0999 V1 30.201
 RP 107.79 LAP -.09 LOP 74.90 VP 36.890 GAP 16.41 A7P 89.95 TAL 148.86 TAP 86.73 RCA 84.34 APO 156.64 V2 35.155
 RC 190.875 GL .39 GP -11.00 ZAL 40.33 ZAP 168.96 ETS 278.31 ZAE 128.66 ETE 188.90 ZAC 170.13 ETC 163.43 CLP-179.07

PLANETOCENTRIC CONIC
 C3 45.030 VHL 6.710 CLA 23.66 RAL 97.33 RAD 6568.7 VEL 12.899 PTH 2.35 VHP 10.820 OPA 11.79 RAP 76.45 ECC 1.7411
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 13 3264.93 -25.14 115.26 342.37 76.52 6 3 38 2664.9 -26.75 106.96
 90.00 0 25 12 4211.55 .41 172.62 332.49 61.69 1 35 23 3611.5 -3.38 165.99
 100.00 6 49 30 2941.62 -27.46 92.07 342.96 77.71 7 38 31 2341.6 -28.88 83.55
 100.00 1 27 36 4010.09 2.50 156.66 331.33 60.20 2 34 26 3410.1 -1.49 150.14
 110.00 8 35 34 2609.78 -33.00 68.09 344.20 80.52 9 19 4 2009.8 -33.95 58.99
 110.00 1 58 2 3914.70 7.30 146.47 328.37 56.51 3 3 16 3314.7 2.84 140.21

DIFFERENTIAL CORRECTIONS
 TDE -.2828 TRA 5.8554 TC3-1.8380 BAU 1.1067 SGT 5994.6 SGR 472.0 SG3 142.7 ST 1656.8 SR 360.1 SS 475.5
 RDE .4069 RRA .3383 RC3 -.0385 FAU .01125 RRT .6236 RRF .6068 RTF .9685 CRT .1192 CRS .0351 CST -.9877
 FDE -.1766 FRA 1.7368 FC3 -.2164 BSP 19868 SGB 6013.2 R23 .0007 R13 .9685 LSA 1722.7 MSA 364.8 SSA 12.2
 BDE .4956 BRA 5.8651 BC3 1.8384 FSP -.493 SG1 6001.9 SG2 368.6 THA 2.82 EL1 1657.4 EL2 357.4 ALF 1.56

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC
 RL 147.53 LAL .00 LOL 137.03 VL 26.382 GAL 12.84 AZL 90.12 HCA 301.10 SMA 120.30 ECC .31312 INC .1193 V1 30.201
 RP 107.76 LAP -.10 LOP 78.13 VP 36.877 GAP 17.27 A7P 90.06 TAL 147.64 TAP 88.74 RCA 82.63 APO 157.97 V2 35.166
 RC 192.690 GL -.43 GP -10.79 ZAL 38.75 ZAP 169.21 ETS 273.04 ZAE 128.52 ETE 188.70 ZAC 172.05 ETC 157.07 CLP-179.92

PLANETOCENTRIC CONIC
 C3 51.159 VHL 7.153 CLA 22.75 RAL 98.99 RAD 6568.9 VEL 13.135 PTH 2.40 VHP 11.338 OPA 12.33 RAP 78.63 ECC 1.8420
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 58 3250.55 -25.36 114.27 346.27 76.97 6 23 8 2650.5 -26.91 105.94
 90.00 0 18 43 4289.77 2.93 176.99 335.56 61.82 1 30 13 3689.8 -.86 170.36
 100.00 7 7 18 2933.48 -27.58 91.49 346.82 77.99 7 56 11 2333.5 -28.96 82.96
 100.00 1 23 4 4082.07 4.92 160.63 334.46 60.48 2 31 7 3482.1 -.95 154.09
 110.00 8 50 19 2611.19 -32.98 68.20 348.01 80.46 9 33 50 2011.2 -33.95 59.10
 110.00 1 56 33 3977.13 9.63 149.80 331.59 57.04 3 2 50 3377.1 5.22 143.49

DIFFERENTIAL CORRECTIONS
 TDE -.4551 TRA 6.3685 TC3-1.5730 BAU 1.0761 SGT 5983.3 SGR 456.2 SG3 137.4 ST 1700.5 SR 345.9 SS 488.9
 RDE .4161 RRA .3550 RC3 -.0307 FAU .00959 RRT .6167 RRF .6012 RTF .9707 CRT .0546 CRS .0753 CST -.9912
 FDE -.2114 FRA 1.8012 FC3 -.1622 BSP 19897 SGB 6000.7 R23 .0004 R13 .9707 LSA 1768.4 MSA 350.9 SSA 11.7
 BDE .6166 BRA 6.3784 BC3 1.5733 FSP -.474 SG1 5990.0 SG2 358.7 THA 2.70 EL1 1700.6 EL2 345.3 ALF .66

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 6 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 609.268

RL 147.53 LAL .00 LOL 137.03 VL 26.350 GAL 13.97 AZL 90.36 HCA 304.32 SMA 120.12 ECC .32761 INC .3553 V1 30.201
 RP 107.73 LAP .29 LOP 81.36 VP 36.865 GAP 18.22 AZP 90.20 TAL 146.49 TAP 90.82 RCA 80.77 APO 159.47 V2 35.177
 RC 194.480 GL -1.19 GP -10.58 ZAL 37.30 ZAP 169.36 ETS 267.40 ZAE 128.34 ETE 188.51 ZAC 173.79 ETC 147.01 CLP 178.89

PLANETOCENTRIC CONIC

C3 58.410 VHL 7.643 DLA 21.90 RAL 100.51 RAD 6569.1 VEL 13.408 PTH 2.45 VHP 11.911 OPA 12.81 RAP 80.79 ECC 1.9613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 27 3242.32 -25.49 113.70 350.05 77.23 6 40 30 2642.3 -26.99 105.35
 90.00 0 13 21 4363.40 5.29 181.12 338.65 62.14 1 26 4 3763.4 1.52 174.47
 100.00 7 23 16 2930.15 -27.63 91.25 350.57 78.11 8 12 6 2330.2 -28.99 82.71
 100.00 1 19 13 4150.80 7.21 164.44 337.60 60.91 2 28 24 3550.8 3.28 157.86
 110.00 9 3 45 2615.81 -32.93 68.55 351.74 80.26 9 47 20 2015.8 -33.92 59.45
 110.00 1 55 14 4037.90 11.86 153.09 334.81 57.70 3 2 32 3437.9 7.51 146.70

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6338 TRA 6.9207 TC3-1.3280 BAU 1.0372 SGT 5967.8 SGR 439.1 SG3 132.4 ST 1744.6 SR 331.5 SS 503.3
 RDE .4256 RRA .3706 RC3 -.0237 FAU .00792 RRT .6091 RRF .5950 RTF .9731 CRT -.0015 CRS .1097 CST -.9939
 FDE -.2446 FRA 1.8705 FC3 -.1174 BSP 19927 SGB 5983.9 R23 .0003 R13 .9731 LSA 1815.0 MSA 335.6 SSA 11.1
 BDE .7634 BRA 6.9306 BC3 1.3282 FSP -457 SG1 5973.8 SG2 347.9 THA 2.57 EL1 1744.6 EL2 331.5 ALF 179.98

LAUNCH DATE FEB 6 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 613.357

RL 147.53 LAL .00 LOL 137.03 VL 26.319 GAL 15.22 AZL 90.61 HCA 307.55 SMA 119.94 ECC .34370 INC .6101 V1 30.201
 RP 107.70 LAP .48 LOP 84.58 VP 36.852 GAP 19.26 AZP 90.37 TAL 145.43 TAP 92.98 RCA 78.72 APO 161.16 V2 35.187
 RC 196.245 GL -1.89 GP -10.40 ZAL 35.99 ZAP 169.38 ETS 261.47 ZAE 128.11 ETE 188.32 ZAC 175.19 ETC 130.47 CLP 177.81

PLANETOCENTRIC CONIC

C3 67.032 VHL 8.187 DLA 21.09 RAL 101.88 RAD 6569.3 VEL 13.725 PTH 2.51 VHP 12.545 OPA 13.25 RAP 82.93 ECC 2.1032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 2 2 3239.06 -25.54 113.47 353.71 77.33 6 56 1 2639.1 -27.03 105.12
 90.00 0 8 44 4433.21 7.49 185.06 341.73 62.61 1 22 38 3833.2 3.77 178.37
 100.00 7 37 37 2930.85 -27.62 91.30 354.22 78.08 8 26 28 2330.8 -28.98 82.76
 100.00 1 15 51 4216.65 9.37 168.14 340.72 61.49 2 26 7 3616.7 5.49 161.50
 110.00 9 15 56 2623.26 -32.84 69.11 355.39 79.94 9 59 39 2023.3 -33.88 60.03
 110.00 1 54 1 4097.01 13.98 156.35 338.00 58.49 3 2 18 3497.0 9.71 149.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8162 TRA 7.5206 TC3-1.1003 BAU .9862 SGT 5949.2 SGR 420.9 SG3 127.8 ST 1786.9 SR 317.1 SS 518.9
 RDE .4360 RRA .3847 RC3 -.0172 FAU .00617 RRT .6008 RRF .5884 RTF .9756 CRT -.0489 CRS .1378 CST -.9958
 FDE -.2757 FRA 1.9471 FC3 -.0797 BSP 19826 SGB 5964.1 R23 .0005 R13 .9756 LSA 1860.3 MSA 319.7 SSA 10.7
 BDE .9254 BRA 7.5305 BC3 1.1004 FSP -438 SG1 5954.6 SG2 336.2 THA 2.44 EL1 1787.0 EL2 316.7 ALF 179.49

LAUNCH DATE FEB 6 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 617.102

RL 147.53 LAL .00 LOL 137.03 VL 26.290 GAL 16.58 AZL 90.89 HCA 310.78 SMA 119.77 ECC .36164 INC .8880 V1 30.201
 RP 107.67 LAP .67 LOP 87.81 VP 36.840 GAP 20.43 AZP 90.58 TAL 144.47 TAP 95.25 RCA 76.46 APO 163.08 V2 35.196
 RC 197.986 GL -2.55 GP -10.22 ZAL 34.82 ZAP 169.26 ETS 255.36 ZAE 127.84 ETE 188.13 ZAC 175.91 ETC 105.38 CLP 176.69

PLANETOCENTRIC CONIC

C3 77.345 VHL 8.795 DLA 20.34 RAL 103.11 RAD 6569.5 VEL 14.096 PTH 2.57 VHP 13.253 OPA 13.63 RAP 85.04 ECC 2.2729
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 54 3239.88 -25.52 113.53 357.25 77.30 7 9 54 2639.9 -27.02 105.18
 90.00 0 4 41 4499.61 9.55 188.86 344.78 63.22 1 19 41 3899.6 5.88 182.10
 100.00 7 50 28 2934.95 -27.56 91.59 357.75 77.94 8 39 23 2334.9 -28.94 83.06
 100.00 1 12 48 4279.78 11.40 171.73 343.81 62.18 2 24 8 3679.8 7.59 165.01
 110.00 9 26 56 2633.13 -32.72 69.86 358.94 79.51 10 10 49 2033.1 -33.82 60.80
 110.00 1 52 50 4154.36 16.00 159.57 341.17 59.38 3 2 4 3554.4 11.82 152.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0124 TRA 8.1651 TC3 -.8951 BAU .9256 SGT 5924.4 SGR 401.2 SG3 123.3 ST 1825.9 SR 302.5 SS 536.0
 RDE .4466 RRA .3963 RC3 -.0117 FAU .00444 RRT .5903 RRF .5797 RTF .9782 CRT -.0929 CRS .1650 CST -.9972
 FDE -.3076 FRA 2.0296 FC3 -.0497 BSP 19852 SGB 5938.0 R23 .0007 R13 .9782 LSA 1902.8 MSA 303.3 SSA 10.2
 BDE 1.1066 BRA 8.1747 BC3 .8951 FSP -423 SG1 5929.2 SG2 323.6 THA 2.30 EL1 1826.1 EL2 301.1 ALF 179.09

LAUNCH DATE FEB 6 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 620.420

RL 147.53 LAL .00 LOL 137.03 VL 26.261 GAL 18.10 AZL 91.19 HCA 314.01 SMA 119.61 ECC .38173 INC 1.1945 V1 30.201
 RP 107.64 LAP .86 LOP 91.05 VP 36.828 GAP 21.73 AZP 90.83 TAL 143.63 TAP 97.64 RCA 73.95 APO 165.26 V2 35.205
 RC 199.701 GL -3.15 GP -10.06 ZAL 33.79 ZAP 168.99 ETS 249.19 ZAE 127.50 ETE 187.93 ZAC 175.68 ETC 77.96 CLP 175.51

PLANETOCENTRIC CONIC

C3 89.764 VHL 9.474 DLA 19.64 RAL 104.20 RAD 6569.8 VEL 14.530 PTH 2.64 VHP 14.047 OPA 13.97 RAP 87.11 ECC 2.4773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 12 3244.09 -25.46 113.82 .64 77.17 7 22 16 2644.1 -26.98 105.48
 90.00 0 1 1 4562.80 11.47 192.51 347.78 63.93 1 17 4 3962.8 7.87 185.68
 100.00 8 1 54 2941.91 -27.46 92.09 1.14 77.70 8 50 56 2341.9 -28.88 83.57
 100.00 1 9 59 4340.21 13.30 175.21 346.85 62.98 2 22 20 3740.2 9.57 168.41
 110.00 9 36 47 2645.09 -32.57 70.76 2.85 79.00 10 20 52 2045.1 -33.74 61.72
 110.00 1 51 36 4209.80 17.89 162.75 344.28 60.38 3 1 46 3609.8 13.82 156.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.2168 TRA 8.8678 TC3 -.7077 BAU .8493 SGT 5895.8 SGR 380.2 SG3 119.1 ST 1860.4 SR 287.8 SS 554.8
 RDE .4581 RRA .4050 RC3 -.0069 FAU .00259 RRT .5774 RRF .5687 RTF .9808 CRT -.1318 CRS .1893 CST -.9981
 FDE -.3390 FRA 2.1213 FC3 -.0250 BSP 19835 SGB 5908.0 R23 .0010 R13 .9808 LSA 1941.5 MSA 286.7 SSA 9.6
 BDE 1.3001 BRA 8.8770 BC3 .7077 FSP -408 SG1 5899.9 SG2 310.2 THA 2.14 EL1 1860.8 EL2 285.2 ALF 178.80

LAUNCH DATE FEB 7 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 18 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 25.355 GAL -3.58 AZL 87.62 HCA 75.64 SMA 114.80 ECC .29146 INC 2.3787 V1 30.196
 RP 108.11 LAP 2.30 LOP 213.67 VP 36.044 GAP -16.62 AZP 89.41 TAL 188.79 TAP 264.43 RCA 81.34 APO 148.26 V2 35.053
 RC 44.405 GL 11.30 GP 9.97 ZAL 110.46 ZAP 10.43 ETS 255.46 ZAE 157.04 ETE 4.01 ZAC 125.98 ETC 156.79 CLP 3.06

PLANETOCENTRIC CONIC
 C3 28.722 VHL 5.359 CLA 20.97 RAL 20.88 RAD 6568.2 VEL 12.251 PTH 2.20 VHP 10.723 DPA 20.96 RAP 31.21 ECC 1.4727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 36 27 3022.47 -27.86 98.06 256.77 84.70 1 26 49 2422.5 -28.30 89.42
 90.00 18 36 16 4227.40 .92 173.51 247.94 61.70 19 46 43 3627.4 -2.87 166.88
 100.00 2 11 51 2714.82 -29.66 75.60 256.93 86.09 2 57 6 2114.8 -29.89 66.80
 100.00 19 43 32 4010.29 2.50 156.67 247.06 60.20 20 50 23 3410.3 -1.48 150.15
 110.00 3 49 52 2408.19 -34.18 52.50 257.13 89.66 4 30 0 1808.2 -33.85 43.28
 110.00 20 22 1 3889.68 6.35 145.14 244.68 56.34 21 26 51 3289.7 1.89 138.91

DIFFERENTIAL CORRECTIONS
 TOE -.3014 TRA -.5068 TC3 .3398 BAU .1314 SGT 757.2 SGR 432.6 SG3 78.4 ST 366.4 SR 412.6 SS 190.4
 RDE -.3842 RRA .1125 RC3 .0400 FAU .02701 RRT .2237 RRF -.2526 RTF -.6850 CRT .8312 CRS .9414 CST .9600
 FDE .1857 FRA .1340 FC3 -.8140 BSP 2165 SGB 872.1 R23 -.0335 R13 -.6917 LSA 561.2 MSA 159.6 SSA 19.5
 BDE .4884 BRA .5192 BC3 .3422 FSP -187 SG1 766.0 SG2 416.8 THA 10.39 EL1 528.4 EL2 159.1 ALF 49.07

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 25.634 GAL -3.64 AZL 87.80 HCA 78.85 SMA 116.23 ECC .27629 INC 2.2028 V1 30.196
 RP 108.15 LAP 2.16 LOP 216.88 VP 36.228 GAP -15.55 AZP 89.57 TAL 189.64 TAP 268.49 RCA 84.12 APO 148.35 V2 35.040
 RC 45.309 GL 11.10 GP 10.55 ZAL 112.04 ZAP 10.61 ETS 266.85 ZAE 154.92 ETE 5.85 ZAC 126.79 ETC 155.85 CLP 1.07

PLANETOCENTRIC CONIC
 C3 26.084 VHL 5.107 CLA 20.19 RAL 19.40 RAD 6568.1 VEL 12.143 PTH 2.18 VHP 10.120 DPA 21.95 RAP 32.16 ECC 1.4293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 49 2964.55 -28.15 93.85 253.16 86.79 1 29 14 2364.5 -28.30 85.19
 90.00 18 21 7 4237.40 1.25 174.07 244.74 61.71 19 31 44 3637.4 -2.55 167.44
 100.00 2 14 12 2660.24 -29.84 71.54 253.24 88.21 2 58 33 2060.2 -29.77 62.74
 100.00 19 29 26 4016.94 2.73 157.04 243.92 60.22 20 36 23 3416.9 -1.25 150.52
 110.00 3 50 18 2359.56 -34.14 48.71 253.24 91.91 4 29 38 1759.6 -33.50 39.52
 110.00 20 9 48 3890.39 6.38 145.18 241.65 56.35 21 14 39 3290.4 1.91 138.94

DIFFERENTIAL CORRECTIONS
 TOE -.2975 TRA -.4828 TC3 .4081 BAU .1439 SGT 786.2 SGR 438.5 SG3 87.7 ST 376.2 SR 415.4 SS 185.9
 RDE -.3686 RRA .1107 RC3 .0606 FAU .02900 RRT .2535 RRF -.2862 RTF -.7027 CRT .8393 CRS .9469 CST .9572
 FDE .1838 FRA .1186 FC3 -.9625 BSP 2269 SGB 900.3 R23 -.0388 R13 -.7105 LSA 568.5 MSA 158.3 SSA 20.8
 BDE .4736 BRA .4953 BC3 .4126 FSP -213 SG1 797.1 SG2 418.4 THA 11.16 EL1 537.7 EL2 158.0 ALF 48.37

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 25.888 GAL -3.71 AZL 87.97 HCA 82.05 SMA 117.58 ECC .26245 INC 2.0310 V1 30.196
 RP 108.19 LAP 2.01 LOP 220.09 VP 36.395 GAP -14.53 AZP 89.72 TAL 190.56 TAP 272.61 RCA 86.72 APO 148.44 V2 35.027
 RC 46.364 GL 10.81 GP 11.19 ZAL 113.72 ZAP 11.23 ETS 277.68 ZAE 152.96 ETE 7.59 ZAC 127.52 ETC 154.85 CLP -.96

PLANETOCENTRIC CONIC
 C3 23.851 VHL 4.884 CLA 19.28 RAL 17.90 RAD 6568.0 VEL 12.051 PTH 2.15 VHP 9.549 DPA 22.99 RAP 33.04 ECC 1.3925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 0 2904.78 -28.30 89.48 249.59 88.97 1 32 25 2304.8 -28.14 80.82
 90.00 18 4 56 4252.98 1.75 174.94 241.63 61.73 19 15 49 3653.0 -2.04 168.31
 100.00 2 17 18 2603.92 -29.89 67.36 249.60 90.41 3 0 42 2003.9 -29.51 58.58
 100.00 19 14 19 4029.18 3.14 157.71 240.85 60.26 20 21 28 3429.2 -.84 151.19
 110.00 3 51 24 2309.53 -33.95 44.81 249.41 94.20 4 29 53 1709.5 -33.00 35.70
 110.00 19 56 42 3896.33 6.61 145.50 238.71 56.38 21 1 39 3296.3 2.14 139.25

DIFFERENTIAL CORRECTIONS
 TOE -.2914 TRA -.4585 TC3 .4838 BAU .1567 SGT 815.4 SGR 445.0 SG3 98.0 ST 382.5 SR 417.1 SS 178.4
 RDE -.3538 RRA .1097 RC3 .0861 FAU .03122 RRT .2865 RRF -.3239 RTF -.7208 CRT .8458 CRS .9520 CST .9527
 FDE .1793 FRA .1007 FC3 -1.1334 BSP 2408 SGB 928.9 R23 -.0448 R13 -.7298 LSA 571.9 MSA 156.6 SSA 22.3
 BDE .4584 BRA .4714 BC3 .4914 FSP -243 SG1 828.8 SG2 419.4 THA 12.00 EL1 543.9 EL2 156.5 ALF 47.93

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.119 GAL -3.79 AZL 88.14 HCA 85.25 SMA 118.85 ECC .24988 INC 1.8619 V1 30.196
 RP 108.23 LAP 1.86 LOP 223.29 VP 36.547 GAP -13.55 AZP 89.85 TAL 191.53 TAP 276.78 RCA 89.15 APO 148.54 V2 35.013
 RC 47.558 GL 10.41 GP 11.90 ZAL 115.46 ZAP 12.28 ETS 287.26 ZAE 151.17 ETE 9.29 ZAC 128.14 ETC 153.78 CLP -3.05

PLANETOCENTRIC CONIC
 C3 21.962 VHL 4.686 CLA 18.25 RAL 16.39 RAD 6567.9 VEL 11.973 PTH 2.13 VHP 9.007 DPA 24.06 RAP 33.85 ECC 1.3614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 48 55 2843.72 -28.29 85.02 246.10 91.21 1 36 19 2243.7 -27.83 76.38
 90.00 17 47 59 4273.99 2.43 176.11 238.63 61.78 18 59 13 3674.0 -1.37 169.48
 100.00 2 21 9 2546.31 -29.78 63.08 246.04 92.66 3 3 35 1946.3 -29.10 54.35
 100.00 18 58 27 4046.63 3.73 158.67 237.91 60.32 20 5 53 3446.6 -.25 152.15
 110.00 3 53 9 2258.44 -33.63 40.86 245.68 96.52 4 30 47 1658.4 -32.36 31.85
 110.00 19 42 56 3907.26 7.02 146.07 235.88 56.46 20 48 3 3307.3 2.56 139.82

DIFFERENTIAL CORRECTIONS
 TOE -.2837 TRA -.4346 TC3 .5623 BAU .1687 SGT 843.3 SGR 452.4 SG3 109.5 ST 385.6 SR 417.6 SS 167.6
 RDE -.3398 RRA .1095 RC3 .1175 FAU .03372 RRT .3232 RRF -.3660 RTF -.7363 CRT .8510 CRS .9561 CST .9459
 FDE .1716 FRA .0800 FC3 -1.3292 BSP 2532 SGB 956.9 R23 -.0520 R13 -.7468 LSA 571.6 MSA 154.6 SSA 24.0
 BDE .4427 BRA .4482 BC3 .5745 FSP -276 SG1 859.9 SG2 419.8 THA 12.98 EL1 547.0 EL2 154.6 ALF 47.68

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 201.802

RL 147.55 LAL .00 LOL 138.05 VL 26.329 GAL -3.87 AZL 88.31 MCA 88.44 SMA 120.03 ECC .23850 INC 1.6945 V1 30.196
 RP 108.27 LAP 1.69 LOP 226.49 VP 36.685 GAP -12.62 AZP 89.95 TAL 192.56 TAP 281.00 RCA 91.40 APO 148.66 V2 35.000
 RC 48.883 GL 9.91 GP 12.69 ZAL 117.24 ZAP 13.70 ETS 295.31 ZAE 149.56 ETE 10.99 ZAC 128.65 ETC 152.65 CLP -5.20

PLANETOCENTRIC CONIC

C3 20.367 VHL 4.513 DLA 17.11 RAL 14.91 RAD 6567.8 VEL 11.906 PTH 2.12 VHP 8.494 DPA 25.18 RAP 34.57 ECC 1.3352
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 31 2781.87 -28.12 80.50 242.73 93.47 1 40 53 2181.9 -27.34 71.92
 90.00 17 30 33 4299.60 3.25 177.54 235.80 61.85 18 42 13 3699.6 -5.54 170.91
 100.00 2 25 41 2487.87 -29.52 58.76 242.61 94.92 3 7 9 1887.9 -28.53 50.10
 100.00 18 42 4 4068.83 4.48 159.90 235.12 60.41 19 49 53 3468.8 .51 153.36
 110.00 3 55 35 2206.62 -33.16 36.89 242.10 98.83 4 32 21 1606.6 -31.58 28.01
 110.00 19 28 40 3922.85 7.60 146.90 233.20 56.57 20 34 3 3322.8 3.15 140.64

DIFFERENTIAL CORRECTIONS

TDE -.2741 TRA -.4111 TC3 .6443 BAU .1805
 RDE -.3264 RRA .1100 RC3 .1555 FAU .03653
 FDE .1596 FRA .0561 FC3-1.5527 BSP 2648
 BDE .4262 BRA .4256 BC3 .6628 FSP -315

MID-COURSE EXECUTION ACCURACY

SGT 870.3 SGR 461.3 SG3 122.5
 RRT .3636 RRF -.4125 RTF -.7505
 SGB 895.0 R23 -.0606 R13 -.7629
 SG1 891.1 SG2 419.6 THA 14.10

ORBIT DETERMINATION ACCURACY

ST 385.0 SR 416.7 SS 152.8
 CRT .8544 CRS .9588 CST .9347
 LSA 566.8 MSA 152.6 SSA 26.1
 EL1 546.4 EL2 152.5 ALF 47.65

LAUNCH DATE FEB 7 1969

FLIGHT TIME 80.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 208.536

RL 147.55 LAL .00 LOL 138.05 VL 26.519 GAL -3.95 AZL 88.47 MCA 91.64 SMA 121.13 ECC .22824 INC 1.5278 V1 30.196
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.809 GAP -11.73 AZP 90.04 TAL 193.62 TAP 285.26 RCA 93.48 APO 148.78 V2 34.987
 RC 50.327 GL 9.31 GP 13.56 ZAL 119.04 ZAP 15.42 ETS 301.89 ZAE 148.13 ETE 12.74 ZAC 129.03 ETC 151.47 CLP -7.41

PLANETOCENTRIC CONIC

C3 19.023 VHL 4.361 DLA 15.87 RAL 13.47 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 8.010 DPA 26.35 RAP 35.19 ECC 1.3131
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 45 2719.66 -27.78 75.98 239.52 95.71 1 46 5 2119.7 -26.70 67.48
 90.00 17 12 52 4329.40 4.20 179.21 233.16 61.97 18 25 1 3729.4 .42 172.57
 100.00 2 30 54 2428.98 -29.10 54.43 239.35 97.16 3 11 23 1829.0 -27.80 45.87
 100.00 18 25 25 4095.31 5.37 161.36 232.52 60.55 19 33 40 3495.3 1.40 154.82
 110.00 3 58 40 2154.36 -32.54 32.93 238.70 101.09 4 34 34 1554.4 -30.67 24.21
 110.00 19 14 8 3942.69 8.34 147.96 230.69 56.73 20 19 51 3342.7 3.91 141.68

DIFFERENTIAL CORRECTIONS

TDE -.2628 TRA -.3885 TC3 .7262 BAU .1916
 RDE -.3133 RRA .1113 RC3 .2007 FAU .03965
 FDE .1432 FRA .0296 FC3-1.8045 BSP 2758
 BDE .4089 BRA .4041 BC3 .7534 FSP -358

MID-COURSE EXECUTION ACCURACY

SGT 895.5 SGR 472.3 SG3 137.0
 RRT .4074 RRF -.4630 RTF -.7629
 SGB 1012.4 R23 -.0707 R13 -.7777
 SG1 921.6 SG2 419.2 THA 15.38

ORBIT DETERMINATION ACCURACY

ST 380.6 SR 414.1 SS 134.5
 CRT .8560 CRS .9583 CST .9162
 LSA 557.6 MSA 150.5 SSA 28.4
 EL1 542.0 EL2 150.3 ALF 47.81

LAUNCH DATE FEB 7 1969

FLIGHT TIME 82.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 215.260

RL 147.55 LAL .00 LOL 138.05 VL 26.691 GAL -4.03 AZL 88.64 MCA 94.83 SMA 122.15 ECC .21904 INC 1.3607 V1 30.196
 RP 108.36 LAP 1.36 LOP 232.88 VP 36.921 GAP -10.89 AZP 90.11 TAL 194.70 TAP 289.53 RCA 95.39 APO 148.91 V2 34.974
 RC 51.881 GL 8.60 GP 14.54 ZAL 120.83 ZAP 17.42 ETS 307.20 ZAE 146.90 ETE 14.58 ZAC 129.25 ETC 150.25 CLP -9.71

PLANETOCENTRIC CONIC

C3 17.892 VHL 4.230 DLA 14.54 RAL 12.11 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 7.553 DPA 27.58 RAP 35.68 ECC 1.2945
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 7 37 2657.44 -27.28 71.50 236.49 97.91 1 51 54 2057.4 -25.90 63.10
 90.00 16 55 9 4362.89 5.27 181.09 230.74 62.14 18 7 52 3762.9 1.50 174.44
 100.00 2 36 45 2369.98 -28.52 50.14 236.28 99.35 3 16 15 1770.0 -26.94 41.70
 100.00 18 8 42 4125.58 6.38 163.04 230.14 60.73 19 17 28 3525.6 2.43 156.48
 110.00 4 2 25 2101.93 -31.79 29.03 235.52 103.29 4 37 27 1501.9 -29.63 20.48
 110.00 18 59 31 3966.40 9.23 149.23 228.40 56.94 20 5 38 3366.4 4.81 142.92

DIFFERENTIAL CORRECTIONS

TDE -.2492 TRA -.3664 TC3 .8079 BAU .2026
 RDE -.3001 RRA .1134 RC3 .2542 FAU .04316
 FDE .1205 FRA -.0006 FC3-2.0882 BSP 2873
 BDE .3901 BRA .3835 BC3 .8469 FSP -407

MID-COURSE EXECUTION ACCURACY

SGT 918.6 SGR 486.5 SG3 153.3
 RRT .4538 RRF -.5172 RTF -.7744
 SGB 1039.5 R23 -.0820 R13 -.7922
 SG1 951.5 SG2 418.5 THA 16.87

ORBIT DETERMINATION ACCURACY

ST 371.5 SR 409.3 SS 112.0
 CRT .8551 CRS .9496 CST .8807
 LSA 543.2 MSA 148.5 SSA 31.1
 EL1 532.6 EL2 148.1 ALF 48.24

LAUNCH DATE FEB 7 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 221.973

RL 147.55 LAL .00 LOL 138.05 VL 26.846 GAL -4.12 AZL 88.81 MCA 98.02 SMA 123.09 ECC .21081 INC 1.1921 V1 30.196
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.021 GAP -10.08 AZP 90.17 TAL 195.79 TAP 293.81 RCA 97.14 APO 149.04 V2 34.961
 RC 53.536 GL 7.78 GP 15.62 ZAL 122.59 ZAP 19.67 ETS 311.49 ZAE 145.84 ETE 16.55 ZAC 129.30 ETC 148.99 CLP -12.11

PLANETOCENTRIC CONIC

C3 16.942 VHL 4.116 DLA 13.12 RAL 10.85 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 7.124 DPA 28.87 RAP 36.03 ECC 1.2788
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 15 4 2595.46 -26.62 67.08 233.69 100.03 1 58 20 1995.5 -24.97 58.81
 90.00 16 37 35 4399.61 6.44 183.16 228.56 62.37 17 50 54 3799.6 2.69 176.49
 100.00 2 43 14 2311.12 -27.80 45.92 233.43 101.46 3 21 45 1711.1 -25.94 37.61
 100.00 17 52 6 4159.18 7.49 164.91 227.99 60.98 19 1 25 3559.2 3.56 158.33
 110.00 4 6 50 2049.54 -30.90 25.20 232.58 105.39 4 41 0 1449.5 -28.48 16.84
 110.00 18 44 59 3993.53 10.23 150.68 226.33 57.20 19 51 33 3393.5 5.84 144.35

DIFFERENTIAL CORRECTIONS

TDE -.2342 TRA -.3455 TC3 .8851 BAU .2129
 RDE -.2866 RRA .1163 RC3 .3167 FAU .04705
 FDE .0914 FRA -.0336 FC3-2.4041 BSP 2981
 BDE .3702 BRA .3645 BC3 .9401 FSP -462

MID-COURSE EXECUTION ACCURACY

SGT 938.6 SGR 504.8 SG3 171.4
 RRT .5022 RRF -.5739 RTF -.7840
 SGB 1065.8 R23 -.0949 R13 -.8056
 SG1 980.4 SG2 417.9 THA 18.62

ORBIT DETERMINATION ACCURACY

ST 358.8 SR 402.2 SS 86.9
 CRT .8515 CRS .9152 CST .8027
 LSA 524.7 MSA 146.6 SSA 34.2
 EL1 518.8 EL2 145.8 ALF 48.83

LAUNCH DATE FEB 7 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 228.671

RL 147.55 LAL .00 LOL 138.05 VL 26.985 GAL -4.19 AZL 88.98 HCA 101.21 SMA 123.95 ECC .20348 INC 1.0209 VI 30.196
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.110 GAP -9.30 AZP 90.20 TAL 196.87 TAP 298.08 RCA 98.73 APO 149.17 V2 34.948
 RC 55.282 GL 6.85 GP 16.82 ZAL 124.28 ZAP 22.14 ETS 314.99 ZAE 144.95 ETE 18.70 ZAC 129.16 ETC 147.72 CLP -14.61

PLANETOCENTRIC CONIC

C3 16.147 VHL 4.018 DLA 11.63 RAL 9.69 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 6.721 DPA 30.24 RAP 36.21 ECC 1.2657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 8 2533.90 -25.82 62.75 231.12 102.05 2 5 22 1933.9 -23.90 54.61
 90.00 16 20 18 4439.16 7.68 185.40 226.64 62.66 17 34 17 3839.2 3.96 178.70
 100.00 2 50 22 2252.57 -26.94 41.78 230.84 103.47 3 27 55 1652.6 -24.82 33.62
 100.00 17 35 45 4195.72 8.69 166.96 226.09 61.29 18 45 41 3595.7 4.79 160.34
 110.00 4 11 56 1997.34 -29.90 21.47 229.91 107.39 4 45 13 1397.3 -27.23 13.30
 110.00 18 30 41 4023.71 11.34 152.32 224.50 57.53 19 37 45 3423.7 6.98 145.94

DIFFERENTIAL CORRECTIONS

TDE -.2173 TRA -.3261 TC3 .9558 BAU .2228
 RDE -.2724 RRA .1200 RC3 .3892 FAU .05135
 FDE .0539 FRA -.0695 FC3-2.7531 BSP 3084
 BDE .3484 BRA .3475 BC3 1.0320 FSP -524

MID-COURSE EXECUTION ACCURACY

SGT 954.7 SGR 528.4 SG3 191.5
 RRT .5504 RRF -.6316 RTF -.7918
 SGB 1091.2 R23 -.1095 R13 -.8185
 SG1 1008.0 SG2 417.8 THA 20.65

ORBIT DETERMINATION ACCURACY

ST 341.8 SR 392.0 SS 61.6
 CRT .8440 CRS .7717 CST .5801
 LSA 501.8 MSA 145.1 SSA 37.8
 EL1 499.8 EL2 143.8 ALF 49.63

LAUNCH DATE FEB 7 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 235.351

RL 147.55 LAL .00 LOL 138.05 VL 27.110 GAL -4.27 AZL 89.15 HCA 104.39 SMA 124.74 ECC .19698 INC .8461 VI 30.196
 RP 108.47 LAP .82 LOP 242.44 VP 37.189 GAP -8.56 AZP 90.21 TAL 197.93 TAP 302.32 RCA 100.17 APO 149.31 V2 34.936
 RC 57.109 GL 5.82 GP 18.16 ZAL 125.90 ZAP 24.83 ETS 317.88 ZAE 144.23 ETE 21.07 ZAC 128.82 ETC 146.45 CLP -17.23

PLANETOCENTRIC CONIC

C3 15.483 VHL 3.935 DLA 10.07 RAL 8.66 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 6.346 DPA 31.69 RAP 36.19 ECC 1.2548
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 31 49 2472.81 -24.88 58.53 228.81 103.97 2 13 2 1872.8 -22.72 50.52
 90.00 16 3 25 4481.22 8.99 187.80 224.98 63.03 17 18 6 3881.2 5.30 181.06
 100.00 2 58 9 2194.39 -25.95 37.74 228.50 105.38 3 34 43 1594.4 -23.59 29.74
 100.00 17 19 47 4234.86 9.97 169.17 224.46 61.67 18 30 22 3634.9 6.10 162.51
 110.00 4 17 42 1945.41 -28.79 17.84 227.51 109.28 4 50 8 1345.4 -25.89 9.86
 110.00 18 16 42 4056.61 12.54 154.12 222.93 57.94 19 24 19 3456.6 8.21 147.69

DIFFERENTIAL CORRECTIONS

TDE -.1974 TRA -.3068 TC3 1.0221 BAU .2332
 RDE -.2567 RRA .1248 RC3 .4738 FAU .05617
 FDE .0054 FRA -.1095 FC3-3.1408 BSP 3226
 BDE .3238 BRA .3312 BC3 1.1265 FSP -597

MID-COURSE EXECUTION ACCURACY

SGT 967.2 SGR 559.3 SG3 214.0
 RRT .5981 RRF -.6889 RTF -.8001
 SGB 1117.2 R23 -.1231 R13 -.8330
 SG1 1035.9 SG2 418.5 THA 23.05

ORBIT DETERMINATION ACCURACY

ST 318.9 SR 378.0 SS 48.8
 CRT .8307 CRS .1925 CST -.0898
 LSA 473.9 MSA 143.7 SSA 42.0
 EL1 473.9 EL2 141.6 ALF 50.81

LAUNCH DATE FEB 7 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 242.012

RL 147.55 LAL .00 LOL 138.05 VL 27.221 GAL -4.34 AZL 89.33 HCA 107.58 SMA 125.45 ECC .19124 INC .6662 VI 30.196
 RP 108.51 LAP .64 LOP 245.62 VP 37.258 GAP -7.86 AZP 90.20 TAL 198.95 TAP 306.52 RCA 101.46 APO 149.44 V2 34.923
 RC 59.010 GL 4.69 GP 19.65 ZAL 127.42 ZAP 27.74 ETS 320.31 ZAE 143.63 ETE 23.72 ZAC 128.24 ETC 145.21 CLP -19.99

PLANETOCENTRIC CONIC

C3 14.930 VHL 3.864 DLA 8.46 RAL 7.78 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 5.998 DPA 33.22 RAP 35.95 ECC 1.2457
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 10 2412.18 -23.82 54.40 226.78 105.78 2 21 22 1812.2 -21.43 46.55
 90.00 15 47 0 4525.53 10.34 190.35 223.60 63.49 17 2 26 3925.5 6.70 183.56
 100.00 3 6 36 2136.60 -24.85 33.80 226.44 107.18 3 42 13 1536.6 -22.26 25.96
 100.00 17 4 15 4276.35 11.30 171.53 223.10 62.14 18 15 31 3676.3 7.48 164.82
 110.00 4 24 12 1893.76 -27.58 14.31 225.39 111.05 4 55 46 1293.8 -24.46 6.52
 110.00 18 3 8 4091.94 13.80 156.07 221.63 58.41 19 11 20 3491.9 9.53 149.58

DIFFERENTIAL CORRECTIONS

TDE -.1784 TRA -.2915 TC3 1.0708 BAU .2421
 RDE -.2395 RRA .1302 RC3 .5698 FAU .06132
 FDE -.0522 FRA -.1497 FC3-3.5558 BSP 3312
 BDE .2986 BRA .3193 BC3 1.2130 FSP -672

MID-COURSE EXECUTION ACCURACY

SGT 972.5 SGR 598.4 SG3 238.3
 RRT .6410 RRF -.7430 RTF -.8036
 SGB 1141.9 R23 -.1397 R13 -.8452
 SG1 1061.5 SG2 420.8 THA 25.89

ORBIT DETERMINATION ACCURACY

ST 296.3 SR 360.2 SS 68.2
 CRT .8115 CRS -.4739 CST -.6990
 LSA 446.6 MSA 143.2 SSA 46.3
 EL1 444.8 EL2 140.2 ALF 51.81

LAUNCH DATE FEB 7 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 248.651

RL 147.55 LAL .00 LOL 138.05 VL 27.320 GAL -4.40 AZL 89.52 HCA 110.76 SMA 126.09 ECC .18619 INC .4802 VI 30.196
 RP 108.55 LAP .45 LOP 248.80 VP 37.320 GAP -7.18 AZP 90.17 TAL 199.92 TAP 310.67 RCA 102.61 APO 149.57 V2 34.911
 RC 60.976 GL 3.44 GP 21.31 ZAL 128.81 ZAP 30.88 ETS 322.41 ZAE 143.15 ETE 26.69 ZAC 127.41 ETC 144.03 CLP -22.90

PLANETOCENTRIC CONIC

C3 14.473 VHL 3.804 DLA 6.79 RAL 7.04 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 5.678 DPA 34.84 RAP 35.45 ECC 1.2382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 51 13 2351.87 -22.65 50.37 225.02 107.47 2 30 25 1751.9 -20.04 42.66
 90.00 15 31 5 4571.98 11.74 193.05 222.49 64.05 16 47 17 3972.0 8.16 186.20
 100.00 3 15 48 2079.06 -23.63 29.95 224.66 108.85 3 50 27 1479.1 -20.84 22.27
 100.00 16 49 11 4320.02 12.67 174.04 222.02 62.70 18 1 11 3720.0 8.91 167.27
 110.00 4 31 27 1842.31 -26.27 10.88 223.56 112.70 5 2 9 1242.3 -22.96 3.28
 110.00 17 50 1 4129.54 15.13 158.17 220.60 58.98 18 58 51 3529.5 10.91 151.61

DIFFERENTIAL CORRECTIONS

TDE -.1584 TRA -.2786 TC3 1.1055 BAU .2511
 RDE -.2198 RRA .1363 RC3 .6797 FAU .06690
 FDE -.1234 FRA -.1909 FC3-4.0016 BSP 3404
 BDE .2709 BRA .3102 BC3 1.2977 FSP -757

MID-COURSE EXECUTION ACCURACY

SGT 971.1 SGR 647.8 SG3 264.7
 RRT .6781 RRF -.7924 RTF -.8047
 SGB 1167.3 R23 -.1557 R13 -.8579
 SG1 1087.1 SG2 425.3 THA 29.24

ORBIT DETERMINATION ACCURACY

ST 271.3 SR 337.1 SS 110.2
 CRT .7816 CRS -.7226 CST -.8705
 LSA 419.8 MSA 143.3 SSA 50.9
 EL1 409.7 EL2 139.3 ALF 52.82

LAUNCH DATE FEB 7 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.407 GAL -4.45 AZL 89.71 HCA 113.94 SMA 126.67 ECC .18177 INC .2862 V1 30.196
 RP 108.58 LAP .26 LOP 251.98 VP 37.373 GAP -6.53 AZP 90.12 TAL 200.82 TAP 314.76 RCA 103.64 APO 149.69 V2 34.900
 RC 63.000 GL 2.08 GP 23.14 ZAL 130.08 ZAP 34.25 ETS 324.28 ZAE 142.72 ETE 30.04 ZAC 126.31 ETC 142.94 CLP -25.99

PLANETOCENTRIC CONIC
 C3 14.097 VHL 3.755 CLA 5.06 RAL 6.46 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 5.387 DPA 36.55 RAP 34.65 ECC 1.2320
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 2 4 2291.65 -21.36 46.42 223.54 109.04 2 40 16 1691.6 -18.57 38.86
 90.00 15 15 38 4620.59 13.17 195.90 221.68 64.71 16 32 38 4020.6 9.66 188.98
 100.00 3 25 48 2021.59 -22.32 26.19 223.17 110.42 3 59 30 1421.6 -19.34 18.66
 100.00 16 34 35 4365.88 14.09 176.71 221.22 63.36 17 47 21 3765.9 10.40 169.86
 110.00 4 39 31 1790.89 -24.88 7.53 222.02 114.24 5 9 22 1190.9 -21.39 .12
 110.00 17 37 22 4169.34 16.52 160.43 219.85 59.64 18 46 51 3569.3 12.36 153.78

DIFFERENTIAL CORRECTIONS
 TDE -.1368 TRA -.2668 TC3 1.1266 BAU .2610 SGT 962.5 SGR 709.8 SG3 293.3 ORBIT DETERMINATION ACCURACY
 RDE -.1964 RRA .1434 RC3 .8053 FAU .07288 RRT .7090 RRF -.8360 RTF -.8048 ST 243.5 SR 307.5 SS 164.5
 FDE -.2105 FRA -.2335 FC3 -4.4757 BSP 3534 SGB 1195.9 R23 -.1669 R13 -.8727 CRT .7342 CRS -.8044 CST -.9028
 BDE .2394 BRA .3029 BC3 1.3848 FSP -851 SG1 1115.1 SG2 432.1 THA 33.21 LSA 396.5 MSA 143.5 SSA 55.3
 EL1 366.9 EL2 138.5 ALF 53.89

LAUNCH DATE FEB 7 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.484 GAL -4.50 AZL 89.92 HCA 117.11 SMA 127.18 ECC .17791 INC .0825 V1 30.196
 RP 108.62 LAP .07 LOP 255.16 VP 37.418 GAP -5.91 AZP 90.04 TAL 201.65 TAP 318.77 RCA 104.55 APO 149.80 V2 34.889
 RC 65.076 GL .61 GP 25.16 ZAL 131.18 ZAP 37.85 ETS 326.01 ZAE 142.32 ETE 33.82 ZAC 124.92 ETC 141.96 CLP -29.27

PLANETOCENTRIC CONIC
 C3 13.793 VHL 3.714 CLA 3.28 RAL 6.06 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 5.125 DPA 38.36 RAP 33.51 ECC 1.2270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 49 2231.21 -19.97 42.54 222.35 110.50 2 51 0 1631.2 -17.00 35.12
 90.00 15 0 38 4671.44 14.63 198.92 221.15 65.48 16 18 29 4071.4 11.20 191.92
 100.00 3 36 42 1963.89 -20.90 22.49 221.96 111.87 4 9 26 1363.9 -17.75 15.12
 100.00 16 20 26 4413.99 15.54 179.55 220.71 64.14 17 34 0 3814.0 11.93 172.61
 110.00 4 48 28 1739.28 -23.39 4.26 220.77 115.67 5 17 27 1139.3 -19.75 357.01
 110.00 17 25 10 4211.36 17.95 162.85 219.39 60.41 18 35 21 3611.4 13.87 156.10

DIFFERENTIAL CORRECTIONS
 TDE -.1176 TRA -.2603 TC3 1.1216 BAU .2705 SGT 942.7 SGR 784.6 SG3 322.8 ORBIT DETERMINATION ACCURACY
 RDE -.1694 RRA .1505 RC3 .9456 FAU .07898 RRT .7287 RRF -.8725 RTF -.7983 ST 219.3 SR 271.2 SS 225.1
 FDE -.3111 FRA -.2708 FC3 -4.9571 BSP 3625 SGB 1226.5 R23 -.1762 R13 -.8868 CRT .6642 CRS -.8293 CST -.8923
 BDE .2062 BRA .3007 BC3 1.4670 FSP -946 SG1 1143.8 SG2 442.9 THA 37.89 LSA 385.0 MSA 143.8 SSA 58.2
 EL1 319.9 EL2 139.0 ALF 53.93

LAUNCH DATE FEB 7 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.551 GAL -4.54 AZL 90.13 HCA 120.29 SMA 127.63 ECC .17456 INC .1325 V1 30.196
 RP 108.65 LAP -.11 LOP 258.33 VP 37.457 GAP -5.31 AZP 89.93 TAL 202.40 TAP 322.69 RCA 105.35 APO 149.91 V2 34.878
 RC 67.198 GL -.99 GP 27.38 ZAL 132.12 ZAP 41.69 ETS 327.68 ZAE 141.87 ETE 38.05 ZAC 123.24 ETC 141.15 CLP -32.76

PLANETOCENTRIC CONIC
 C3 13.552 VHL 3.681 CLA 1.44 RAL 5.82 RAD 6567.5 VEL 11.616 PTH 2.04 VHP 4.894 DPA 40.26 RAP 31.98 ECC 1.2230
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 26 36 2170.12 -18.47 38.69 221.44 111.86 3 2 46 1570.1 -15.34 31.41
 90.00 14 45 59 4724.83 16.11 202.14 220.92 66.40 16 4 44 4124.8 12.79 195.04
 100.00 3 48 37 1905.58 -19.38 18.83 221.04 113.22 4 20 22 1305.6 -16.07 11.60
 100.00 16 6 40 4464.60 17.02 182.58 220.50 65.05 17 21 4 3864.6 13.51 175.54
 110.00 4 58 24 1687.16 -21.82 1.03 219.82 116.99 5 26 31 1087.2 -18.02 353.95
 110.00 17 13 22 4255.80 19.42 165.45 219.22 61.30 18 24 18 3655.8 15.44 158.59

DIFFERENTIAL CORRECTIONS
 TDE -.0997 TRA -.2570 TC3 1.0925 BAU .2812 SGT 911.7 SGR 874.3 SG3 353.0 ORBIT DETERMINATION ACCURACY
 RDE -.1369 RRA .1576 RC3 1.1024 FAU .08511 RRT .7374 RRF -.9022 RTF -.7859 ST 197.7 SR 226.7 SS 293.1
 FDE -.4290 FRA -.3032 FC3 -5.4371 BSP 3739 SGB 1263.1 R23 -.1777 R13 -.9024 CRT .5537 CRS -.8204 CST -.8593
 BDE .1693 BRA .3015 BC3 1.5520 FSP -1046 SG1 1177.5 SG2 457.2 THA 43.37 LSA 390.5 MSA 142.9 SSA 58.9
 EL1 266.1 EL2 140.2 ALF 51.97

LAUNCH DATE FEB 7 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.608 GAL -4.57 AZL 90.36 HCA 123.46 SMA 128.02 ECC .17166 INC .3620 V1 30.196
 RP 108.68 LAP -.30 LOP 261.50 VP 37.490 GAP -4.74 AZP 89.80 TAL 203.06 TAP 326.52 RCA 106.04 APO 149.99 V2 34.867
 RC 69.360 GL -2.73 GP 29.80 ZAL 132.88 ZAP 45.75 ETS 329.37 ZAE 141.31 ETE 42.75 ZAC 121.25 ETC 140.53 CLP -36.48

PLANETOCENTRIC CONIC
 C3 13.370 VHL 3.656 CLA -.47 RAL 5.77 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 4.695 DPA 42.24 RAP 30.02 ECC 1.2200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 35 2107.84 -16.84 34.83 220.84 113.10 3 15 43 1507.8 -13.57 27.69
 90.00 14 31 36 4781.22 17.62 205.59 221.00 67.47 15 51 17 4181.2 14.41 198.38
 100.00 4 1 42 1846.17 -17.74 15.18 220.42 114.46 4 32 28 1246.2 -14.30 8.08
 100.00 15 53 9 4518.13 18.52 185.84 220.60 66.11 17 8 28 3918.1 15.14 178.68
 110.00 5 9 26 1634.13 -20.15 357.82 219.16 118.22 5 36 41 1034.1 -16.22 350.90
 110.00 17 1 54 4302.93 20.94 168.27 219.36 62.34 18 13 37 3702.9 17.07 161.27

DIFFERENTIAL CORRECTIONS
 TDE -.0845 TRA -.2576 TC3 1.0354 BAU .2935 SGT 868.2 SGR 979.0 SG3 382.5 ORBIT DETERMINATION ACCURACY
 RDE -.0980 RRA .1639 RC3 1.2746 FAU .09098 RRT .7323 RRF -.9255 RTF -.7646 ST 180.9 SR 174.0 SS 367.2
 FDE -.5633 FRA -.3258 FC3 -5.8912 BSP 3871 SGB 1308.5 R23 -.1694 R13 -.9188 CRT .3696 CRS -.7623 CST -.8094
 BDE .1294 BRA .3054 BC3 1.6421 FSP -1144 SG1 1219.4 SG2 474.7 THA 49.67 LSA 418.1 MSA 140.7 SSA 56.7
 EL1 207.9 EL2 140.7 ALF 42.00

LAUNCH DATE FEB 7 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.658 GAL -4.59 AZL 90.61 HCA 126.63 SMA 128.36 ECC .16917 INC .6091 V1 30.196
 RP 108.72 LAP -.49 LOP 264.67 VP 37.517 GAP -4.19 AZP 89.64 TAL 203.62 TAP 330.25 RCA 106.64 APO 150.07 V2 34.858
 RC 71.560 GL -4.62 GP 32.42 ZAL 133.43 ZAP 50.03 ETS 331.17 ZAE 140.56 ETE 47.89 ZAC 118.97 ETC 140.15 CLP -40.44

PLANETOCENTRIC CONIC
 C3 13.245 VHL 3.639 DLA -2.48 RAL 5.91 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 4.531 DPA 44.27 RAP 27.56 ECC 1.2180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 59 2043.72 -15.09 30.94 220.54 114.25 3 30 2 1443.7 -11.69 23.92
 90.00 14 17 17 4841.26 19.14 209.34 221.41 68.73 15 37 59 4241.3 16.08 202.00
 100.00 4 16 10 1785.05 -15.98 11.49 220.11 115.60 4 45 55 1185.0 -12.41 4.53
 100.00 15 39 47 4575.16 20.06 189.38 221.02 67.36 16 56 2 3975.2 16.82 182.09
 110.00 5 21 46 1579.70 -18.36 354.61 218.81 119.35 5 48 6 979.7 -14.31 347.84
 110.00 16 50 41 4353.28 22.50 171.34 219.83 63.56 18 3 14 3753.3 18.76 164.20

DIFFERENTIAL CORRECTIONS
 TDE -.0720 TRA -.2605 TC3 .9526 BAU .3092
 RDE -.0504 RRA .1696 RC3 1.4635 FAU .09646
 FDE -.7163 FRA -.3398 FC3-6.3050 BSP 4072
 BOE .0879 BRA .3108 BC3 1.7462 FSP -1243

MID-COURSE EXECUTION ACCURACY
 SGT 813.7 SGR 1101.1 SG3 410.9
 RRT .7119 RRF -.9437 RTF -.7324
 SGB 1369.1 R23 -.1484 R13 -.9360
 SG1 1277.5 SG2 492.5 THA 56.67

ORBIT DETERMINATION ACCURACY
 ST 168.7 SR 117.3 SS 449.2
 CRT -.0105 CRS -.5368 CST -.7482
 LSA 471.4 MSA 138.3 SSA 51.6
 EL1 168.7 EL2 117.3 ALF 179.19

LAUNCH DATE FEB 7 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.699 GAL -4.60 AZL 90.88 HCA 129.79 SMA 128.64 ECC .16702 INC .8771 V1 30.196
 RP 108.74 LAP -.67 LOP 267.84 VP 37.539 GAP -3.66 AZP 89.44 TAL 204.08 TAP 333.88 RCA 107.15 APO 150.13 V2 34.848
 RC 73.792 GL -6.69 GP 35.23 ZAL 133.76 ZAP 54.48 ETS 333.13 ZAE 139.55 ETE 53.43 ZAC 116.41 ETC 140.03 CLP -44.66

PLANETOCENTRIC CONIC
 C3 13.177 VHL 3.630 DLA -4.58 RAL 6.25 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 4.404 DPA 46.33 RAP 24.58 ECC 1.2169
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 5 1976.93 -13.18 26.97 220.57 115.29 3 46 2 1376.9 -9.67 20.05
 90.00 14 2 52 4905.84 20.69 213.45 222.18 70.22 15 24 38 4305.8 17.80 205.96
 100.00 4 32 17 1721.48 -14.08 7.73 220.12 116.65 5 0 58 1121.5 -10.39 .89
 100.00 15 26 22 4636.53 21.62 193.27 221.81 68.84 16 43 38 4036.5 18.55 185.82
 110.00 5 35 35 1523.28 -16.45 351.36 218.79 120.40 6 0 59 923.3 -12.29 344.72
 110.00 16 39 33 4407.49 24.10 174.73 220.66 64.99 17 53 0 3807.5 20.52 167.41

DIFFERENTIAL CORRECTIONS
 TDE -.0668 TRA -.2685 TC3 .8323 BAU .3273
 RDE .0060 RRA .1719 RC3 1.6607 FAU .10081
 FDE -.8795 FRA -.3341 FC3-6.6233 BSP 4290
 BOE .0671 BRA .3188 BC3 1.8576 FSP -1326

MID-COURSE EXECUTION ACCURACY
 SGT 746.3 SGR 1236.1 SG3 434.8
 RRT .6633 RRF -.9572 RTF -.6748
 SGB 1443.9 R23 -.1198 R13 -.9512
 SG1 1350.3 SG2 511.3 THA 64.21

ORBIT DETERMINATION ACCURACY
 ST 166.5 SR 89.8 SS 534.5
 CRT -.7199 CRS .2489 CST -.7014
 LSA 548.3 MSA 137.0 SSA 45.0
 EL1 180.2 EL2 57.6 ALF 156.19

LAUNCH DATE FEB 7 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.733 GAL -4.60 AZL 91.17 HCA 132.96 SMA 128.88 ECC .16520 INC 1.1709 V1 30.196
 RP 108.77 LAP -.86 LOP 271.01 VP 37.556 GAP -3.15 AZP 89.20 TAL 204.44 TAP 337.40 RCA 107.59 APO 150.17 V2 34.839
 RC 76.053 GL -8.95 GP 38.21 ZAL 133.85 ZAP 59.07 ETS 335.32 ZAE 138.20 ETE 59.25 ZAC 113.60 ETC 140.21 CLP -49.14

PLANETOCENTRIC CONIC
 C3 13.174 VHL 3.630 DLA -6.82 RAL 6.80 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 4.316 DPA 48.39 RAP 21.04 ECC 1.2168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 17 1906.46 -11.10 22.84 220.96 116.22 4 4 4 1306.5 -7.49 16.02
 90.00 13 48 3 4976.22 22.24 218.03 223.34 72.00 15 11 0 4376.2 19.57 210.37
 100.00 4 50 23 1654.55 -12.00 3.85 220.50 117.58 5 17 57 1054.5 -8.21 357.11
 100.00 15 12 39 4703.36 23.19 197.61 222.99 70.60 16 31 2 4103.4 20.34 189.98
 110.00 5 51 11 1464.17 -14.38 348.02 219.11 121.35 6 15 35 864.2 -10.13 341.50
 110.00 16 28 20 4466.51 25.74 178.53 221.89 66.69 17 42 47 3866.5 22.37 171.00

DIFFERENTIAL CORRECTIONS
 TDE -.0695 TRA -.2794 TC3 .6777 BAU .3490
 RDE .0737 RRA .1701 RC3 1.8620 FAU .10377
 FDE -1.0515 FRA -.3094 FC3-6.8190 BSP 4571
 BOE .1013 BRA .3271 BC3 1.9815 FSP -1391

MID-COURSE EXECUTION ACCURACY
 SGT 671.8 SGR 1383.3 SG3 453.1
 RRT .5725 RRF -.9673 RTF -.5775
 SGB 1537.9 R23 -.0854 R13 -.9639
 SG1 1444.6 SG2 527.5 THA 71.98

ORBIT DETERMINATION ACCURACY
 ST 173.2 SR 147.5 SS 623.9
 CRT -.8990 CRS .8554 CST -.6886
 LSA 648.7 MSA 137.1 SSA 38.0
 EL1 221.9 EL2 50.4 ALF 140.09

LAUNCH DATE FEB 7 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.761 GAL -4.59 AZL 91.50 HCA 136.12 SMA 129.07 ECC .16365 INC 1.4964 V1 30.196
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.569 GAP -2.67 AZP 88.92 TAL 204.70 TAP 340.82 RCA 107.95 APO 150.19 V2 34.831
 RC 78.340 GL -11.45 GP 41.33 ZAL 133.67 ZAP 63.73 ETS 337.82 ZAE 136.47 ETE 65.24 ZAC 110.59 ETC 140.70 CLP -53.89

PLANETOCENTRIC CONIC
 C3 13.247 VHL 3.640 DLA -9.21 RAL 7.57 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 4.272 DPA 50.40 RAP 16.93 ECC 1.2180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 5 1830.98 -8.79 18.49 221.76 117.02 4 24 36 1231.0 -5.10 11.76
 90.00 13 32 28 5054.08 23.78 223.21 224.94 74.16 14 56 42 4454.1 21.38 215.36
 100.00 5 10 56 1583.09 -9.71 359.78 221.28 118.41 5 37 19 983.1 -5.84 353.13
 100.00 14 58 19 4777.21 24.78 202.52 224.61 72.72 16 17 56 4177.2 22.18 194.69
 110.00 6 8 55 1401.50 -12.13 344.56 219.83 122.20 6 32 17 801.5 -7.80 338.15
 110.00 16 16 48 4531.56 27.42 182.84 223.58 68.74 17 32 20 3931.6 24.29 175.08

DIFFERENTIAL CORRECTIONS
 TDE -.0819 TRA -.2913 TC3 .4928 BAU .3754
 RDE .1553 RRA .1632 RC3 2.0618 FAU .10512
 FDE -1.2296 FRA -.2669 FC3-6.8697 BSP 4954
 BOE .1756 BRA .3339 BC3 2.1199 FSP -1441

MID-COURSE EXECUTION ACCURACY
 SGT 601.0 SGR 1542.8 SG3 464.8
 RRT .4163 RRF -.9748 RTF -.4165
 SGB 1655.7 R23 -.0499 R13 -.9736
 SG1 1565.7 SG2 538.4 THA 79.54

ORBIT DETERMINATION ACCURACY
 ST 190.2 SR 260.6 SS 718.1
 CRT -.8460 CRS .9664 CST -.7182
 LSA 774.4 MSA 138.0 SSA 31.4
 EL1 311.3 EL2 84.9 ALF 124.63

LAUNCH DATE FEB 7 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 307.276

RL 147.55 LAL .00 LOL 138.05 VL 27.782 GAL -4.58 AZL 91.86 HCA 139.28 SMA 129.22 ECC .16235 INC 1.8613 V1 30.196
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.578 GAP -2.20 AZP 88.59 TAL 204.85 TAP 344.13 RCA 108.24 APO 150.20 V2 34.824
 RC 80.651 GL -14.22 GP 44.56 ZAL 133.18 ZAP 68.39 ETS 340.67 ZAE 134.34 ETE 71.27 ZAC 107.42 ETC 141.52 CLP -58.88

PLANETOCENTRIC CONIC

C3 13.415 VHL 3.663 CLA -11.78 RAL 8.60 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 4.274 OPA 52.32 RAP 12.25 ECC 1.220H
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 19 13 1748.74 -6.22 13.82 223.05 117.68 4 48 22 1148.7 -2.47 7.15
 90.00 13 15 34 5141.78 25.28 229.20 227.05 76.80 14 41 15 4541.8 -23.21 221.14
 100.00 5 34 35 1505.60 -7.18 355.43 222.53 119.10 5 59 40 905.6 -3.24 348.85
 100.00 14 42 53 4860.15 26.33 208.19 226.76 75.32 16 3 53 4260.2 24.06 200.13
 110.00 6 29 18 1334.22 -9.67 340.91 221.01 122.95 6 51 32 734.2 -5.26 334.59
 110.00 16 4 39 4604.30 29.12 187.82 225.82 71.25 17 21 23 4004.3 26.28 179.79

DIFFERENTIAL CORRECTIONS

TDE -.1098 TRA -.3051 TC3 .2723 BAU .4046
 RDE -.2503 RRA .1467 RC3 2.2394 FAU .10408
 FDE -1.3975 FRA -.1976 FC3-6.7166 BSP 5365
 BDE .2733 BRA .3385 BC3 2.2559 FSP -1451

MID-COURSE EXECUTION ACCURACY

SGT 554.1 SGR 1702.7 SG3 466.0
 RRT .1545 RRF -.9802 RTF -.1513
 SGB 1790.6 R23 -.0177 R13 -.9800
 SG1 1705.1 SG2 546.6 THA 86.79

ORBIT DETERMINATION ACCURACY

ST 225.7 SR 400.8 SS 809.9
 CRT -.8539 CRS .9895 CST -.7849
 LSA 920.5 MSA 140.3 SSA 25.6
 EL1 447.8 EL2 105.1 ALF 117.31

LAUNCH DATE FEB 7 1969

FLIGHT TIME 112.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 313.657

RL 147.55 LAL .00 LOL 138.05 VL 27.798 GAL -4.55 AZL 92.28 HCA 142.43 SMA 129.33 ECC .16126 INC 2.2760 V1 30.196
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.583 GAP -1.75 AZP 88.20 TAL 204.90 TAP 347.34 RCA 108.48 APO 150.19 V2 34.816
 RC 82.981 GL -17.29 GP 47.88 ZAL 132.35 ZAP 72.96 ETS 343.92 ZAE 131.80 ETE 77.21 ZAC 104.16 ETC 142.66 CLP -64.10

PLANETOCENTRIC CONIC

C3 13.709 VHL 3.703 CLA -14.58 RAL 9.92 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 4.329 OPA 54.13 RAP 7.04 ECC 1.2256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 44 1657.21 -3.30 8.68 224.92 118.14 5 16 21 1057.2 .49 2.05
 90.00 12 56 30 5242.76 26.66 236.27 229.77 80.09 14 23 53 4642.8 25.02 227.98
 100.00 6 2 15 1419.99 -4.32 350.68 224.36 119.61 6 25 55 820.0 -.34 344.15
 100.00 14 25 40 4955.21 27.80 214.88 229.53 78.54 15 48 16 4355.2 25.94 206.57
 110.00 6 53 0 1261.01 -6.93 337.00 222.74 123.56 7 14 1 661.0 -2.47 330.75
 110.00 15 51 24 4686.96 30.78 193.68 228.70 74.35 17 9 31 4087.0 28.33 185.34

DIFFERENTIAL CORRECTIONS

TDE -.1550 TRA -.3160 TC3 .0304 BAU .4377
 RDE .3635 RRA .1212 RC3 2.3880 FAU .10094
 FDE -1.5570 FRA -.1138 FC3-6.3746 BSP 5886
 BDE .3951 BRA .3385 BC3 2.3882 FSP -1439

MID-COURSE EXECUTION ACCURACY

SGT 559.8 SGR 1865.7 SG3 458.2
 RRT -.1848 RRF -.9842 RTF .1898
 SGB 1947.9 R23 .0095 R13 -.9842
 SG1 1868.8 SG2 549.2 THA 93.47

ORBIT DETERMINATION ACCURACY

ST 283.7 SR 567.9 SS 903.0
 CRT -.8916 CRS .9962 CST -.8556
 LSA 1094.3 MSA 142.7 SSA 20.7
 EL1 624.0 EL2 116.9 ALF 114.95

LAUNCH DATE FEB 7 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 320.010

RL 147.55 LAL .00 LOL 138.05 VL 27.809 GAL -4.51 AZL 92.75 HCA 145.59 SMA 129.41 ECC .16037 INC 2.7546 V1 30.196
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.585 GAP -1.32 AZP 87.73 TAL 204.86 TAP 350.44 RCA 108.65 APO 150.16 V2 34.810
 RC 85.328 GL -20.72 GP 51.24 ZAL 131.14 ZAP 77.35 ETS 347.58 ZAE 128.90 ETE 82.98 ZAC 100.87 ETC 144.12 CLP -69.52

PLANETOCENTRIC CONIC

C3 14.177 VHL 3.765 CLA -17.63 RAL 11.55 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 4.443 OPA 55.80 RAP 1.34 ECC 1.2333
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 20 1552.33 .08 2.82 227.56 118.32 5 50 13 952.3 3.86 356.19
 90.00 12 33 56 5362.41 27.77 244.84 233.19 84.24 14 3 18 4762.4 26.68 236.35
 100.00 6 35 23 1323.08 -1.04 345.35 226.93 119.88 6 57 26 723.1 2.94 338.83
 100.00 14 5 35 5066.88 29.05 222.94 233.02 82.61 15 30 1 4466.9 27.72 214.39
 110.00 7 21 2 1180.06 -3.87 332.74 225.17 123.99 7 40 42 580.1 .62 326.53
 110.00 15 36 25 4782.67 32.33 200.71 232.38 78.24 16 56 8 4182.7 30.37 192.04

DIFFERENTIAL CORRECTIONS

TDE -.2250 TRA -.3234 TC3 -.2288 BAU .4720
 RDE .4935 RRA .0807 RC3 2.4795 FAU .09525
 FDE -1.6898 FRA -.0096 FC3-5.8163 BSP 6420
 BDE .5423 BRA .3333 BC3 2.4900 FSP -1383

MID-COURSE EXECUTION ACCURACY

SGT 643.1 SGR 2016.6 SG3 438.8
 RRT -.4976 RRF -.9872 RTF .5030
 SGB 2116.7 R23 .0319 R13 -.9867
 SG1 2043.9 SG2 550.4 THA 99.73

ORBIT DETERMINATION ACCURACY

ST 375.8 SR 754.0 SS 988.3
 CRT -.9294 CRS .9985 CST -.9112
 LSA 1290.3 MSA 146.1 SSA 16.7
 EL1 833.0 EL2 125.5 ALF 115.48

LAUNCH DATE FEB 7 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 326.337

RL 147.55 LAL .00 LOL 138.05 VL 27.815 GAL -4.46 AZL 93.32 HCA 148.74 SMA 129.45 ECC .15965 INC 3.3166 V1 30.196
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.584 GAP -.90 AZP 87.16 TAL 204.71 TAP 353.45 RCA 108.78 APO 150.12 V2 34.804
 RC 87.691 GL -24.56 GP 54.66 ZAL 129.49 ZAP 81.44 ETS 351.69 ZAE 125.65 ETE 88.52 ZAC 97.60 ETC 145.87 CLP -75.09

PLANETOCENTRIC CONIC

C3 14.899 VHL 3.860 CLA -20.99 RAL 13.56 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 4.626 OPA 57.33 RAP 355.20 ECC 1.2452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 11 1426.25 4.14 355.78 231.23 118.04 6 32 58 826.3 7.86 349.08
 90.00 12 5 7 5510.51 28.31 255.64 237.38 89.62 13 36 58 4910.5 27.96 246.99
 100.00 7 16 27 1209.20 2.82 339.10 230.50 119.77 7 36 36 609.2 6.76 332.53
 100.00 13 40 33 5202.79 29.82 232.96 237.34 87.83 15 7 16 4602.8 29.20 224.21
 110.00 7 54 54 1088.69 -.38 327.97 228.50 124.18 8 13 2 488.7 4.11 321.76
 110.00 15 18 36 4896.07 33.58 209.32 236.99 83.19 16 40 12 4296.1 32.27 200.33

DIFFERENTIAL CORRECTIONS

TDE -.3253 TRA -.3216 TC3 -.4845 BAU .5068
 RDE .6440 RRA .0238 RC3 2.4979 FAU .08740
 FDE -1.7932 FRA .1041 FC3-5.0785 BSP 6993
 BDE .7215 BRA .3225 BC3 2.5445 FSP -1295

MID-COURSE EXECUTION ACCURACY

SGT 796.5 SGR 2152.6 SG3 409.7
 RRT -.7011 RRF -.9894 RTF .7061
 SGB 2295.3 R23 .0499 R13 -.9883
 SG1 2228.7 SG2 548.6 THA 105.51

ORBIT DETERMINATION ACCURACY

ST 506.8 SR 957.8 SS 1065.1
 CRT -.9559 CRS .9994 CST -.9471
 LSA 1512.0 MSA 149.6 SSA 13.3
 EL1 1075.5 EL2 132.5 ALF 117.28

LAUNCH DATE FEB 7 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.817 GAL -4.41 AZL 93.99 HCA 151.89 SMA 129.46 ECC .15908 INC 3.9905 V1 30.196
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.581 GAP -.50 AZP 86.48 TAL 204.47 TAP 356.35 RCA 108.87 APO 150.06 V2 34.799
 RC 90.065 GL -28.85 GP 58.13 ZAL 127.36 ZAP 85.15 ETS 356.24 ZAE 122.09 ETE 93.84 ZAC 94.38 ETC 147.92 CLP -80.78

PLANETOCENTRIC CONIC
 C3 16.000 VHL 4.000 CLA -24.66 RAL 16.02 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 4.893 DPA 58.73 RAP 348.65 ECC 1.2633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 1 1257.82 9.43 346.24 236.48 116.82 7 31 59 657.8 12.96 339.34
 90.00 11 22 55 5711.07 27.53 270.24 242.23 96.89 12 58 6 5111.1 28.20 261.63
 100.00 8 10 41 1065.17 7.64 331.12 235.52 118.99 8 28 26 465.2 11.45 324.41
 100.00 13 5 56 5378.96 29.56 246.03 242.47 94.69 14 35 35 4779.0 29.89 237.25
 110.00 8 37 10 982.10 3.69 322.40 233.09 124.01 8 53 32 382.1 8.13 316.13
 110.00 14 55 56 5034.79 34.18 220.10 242.67 89.54 16 19 51 4434.8 33.74 210.88

DIFFERENTIAL CORRECTIONS
 TDE -.4649 TRA -.3050 TC3 -.7144 BAU .5417
 RDE .8201 RRA -.0514 RC3 2.4294 FAU .07793
 FDE -1.8656 FRA .2175 FC3 -4.2165 BSP 7620
 BDE .9427 BRA .3093 BC3 2.5323 FSP -1186

MID-COURSE EXECUTION ACCURACY
 SGT 1000.6 SGR 2272.3 SG3 373.0
 RRT -.8154 RRF -.9911 RTF .8201
 SGB 2482.9 R23 .0638 R13 -.9893
 SG1 2422.7 SG2 543.3 THA 110.85

ORBIT DETERMINATION ACCURACY
 ST 681.6 SR 1176.3 SS 1131.3
 CRT -.9725 CRS .9998 CST -.9684
 LSA 1762.1 MSA 152.6 SSA 10.6
 EL1 1352.5 EL2 138.1 ALF 119.74

LAUNCH DATE FEB 7 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.815 GAL -4.34 AZL 94.82 HCA 155.03 SMA 129.45 ECC .15865 INC 4.8186 V1 30.196
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.575 GAP -.12 AZP 85.63 TAL 204.13 TAP 359.16 RCA 108.91 APO 149.98 V2 34.795
 RC 92.449 GL -33.63 GP 61.70 ZAL 124.68 ZAP 88.38 ETS 1.26 ZAE 118.26 ETE 98.96 ZAC 91.25 ETC 150.28 CLP -86.59

PLANETOCENTRIC CONIC
 C3 17.698 VHL 4.207 CLA -28.66 RAL 19.03 RAD 6567.7 VEL 11.793 PTH 2.09 VHP 5.267 DPA 60.04 RAP 341.63 ECC 1.2913
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.39 8 50 23 988.50 20.55 331.68 245.71 110.43 9 6 52 388.5 23.14 323.94
 94.61 10 7 32 738.71 20.56 313.39 245.72 110.42 10 19 50 138.7 23.16 305.65
 100.00 9 38 17 832.99 15.00 317.81 243.20 116.17 9 52 10 233.0 18.39 310.67
 100.00 12 2 19 5657.50 26.32 266.05 247.70 104.71 13 36 36 5057.5 28.08 257.69
 110.00 9 33 17 848.73 8.72 315.35 239.55 123.18 9 47 26 248.7 13.03 308.91
 110.00 14 23 49 5214.51 33.40 234.05 249.32 97.75 15 50 43 4614.5 34.11 224.88

DIFFERENTIAL CORRECTIONS
 TDE -.6579 TRA -.2662 TC3 -.8938 BAU .5729
 RDE 1.0220 RRA -.1520 RC3 2.2503 FAU .06700
 FDE -1.8963 FRA .3293 FC3 -3.2774 BSP 8223
 BDE 1.2155 BRA .3065 BC3 2.4213 FSP -1048

MID-COURSE EXECUTION ACCURACY
 SGT 1240.6 SGR 2361.7 SG3 329.4
 RRT -.8783 RRF -.9925 RTF .8830
 SGB 2667.8 R23 .0750 R13 -.9899
 SG1 2613.4 SG2 536.0 THA 115.94

ORBIT DETERMINATION ACCURACY
 ST 904.9 SR 1394.9 SS 1178.0
 CRT -.9822 CRS .9999 CST -.9807
 LSA 2031.8 MSA 155.4 SSA 8.3
 EL1 1656.5 EL2 143.0 ALF 122.78

LAUNCH DATE FEB 7 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.809 GAL -4.26 AZL 95.87 HCA 158.16 SMA 129.40 ECC .15834 INC 5.8674 V1 30.196
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.567 GAP .26 AZP 84.55 TAL 203.71 TAP 1.87 RCA 108.91 APO 149.89 V2 34.791
 RC 94.840 GL -38.90 GP 65.41 ZAL 121.44 ZAP 91.06 ETS 6.81 ZAE 114.14 ETE 104.01 ZAC 88.19 ETC 153.03 CLP -92.55

PLANETOCENTRIC CONIC
 C3 20.383 VHL 4.515 CLA -32.95 RAL 22.71 RAD 6567.8 VEL 11.906 PTH 2.12 VHP 5.787 DPA 61.25 RAP 334.02 ECC 1.3354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.40 7 28 49 1327.61 22.53 357.91 252.91 114.71 7 50 57 727.6 25.67 350.27
 107.60 11 58 29 5754.24 22.54 271.83 252.92 114.70 13 34 23 5154.2 25.68 264.18
 72.40 7 28 49 1327.61 22.53 357.91 252.91 114.71 7 50 57 727.6 25.67 350.27
 107.60 11 58 29 5754.24 22.54 271.83 252.92 114.70 13 34 23 5154.2 25.68 264.18
 110.00 11 4 2 633.76 16.47 303.51 249.56 120.39 11 14 35 33.8 20.38 296.57
 110.00 13 22 27 5496.08 28.88 254.69 255.75 109.13 14 54 3 4896.1 31.21 246.26

DIFFERENTIAL CORRECTIONS
 TDE -.9250 TRA -.1929 TC3 -.9949 BAU .5997
 RDE 1.2565 RRA -.2806 RC3 1.9631 FAU .05544
 FDE -1.8880 FRA .4281 FC3 -2.3549 BSP 8850
 BDE 1.5603 BRA .3405 BC3 2.2008 FSP -902

MID-COURSE EXECUTION ACCURACY
 SGT 1506.7 SGR 2421.8 SG3 282.4
 RRT -.9155 RRF -.9936 RTF .9207
 SGB 2852.2 R23 .0828 R13 -.9906
 SG1 2803.8 SG2 523.7 THA 120.86

ORBIT DETERMINATION ACCURACY
 ST 1177.5 SR 1600.6 SS 1202.4
 CRT -.9881 CRS 1.0000 CST -.9880
 LSA 2317.2 MSA 156.7 SSA 6.5
 EL1 1981.7 EL2 146.2 ALF 126.24

LAUNCH DATE FEB 7 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.799 GAL -4.17 AZL 97.25 HCA 161.29 SMA 129.34 ECC .15813 INC 7.2475 V1 30.196
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.557 GAP .61 AZP 83.13 TAL 203.19 TAP 4.48 RCA 108.89 APO 149.79 V2 34.788
 RC 97.236 GL -44.61 GP 69.37 ZAL 117.64 ZAP 93.11 ETS 13.08 ZAE 109.70 ETE 109.26 ZAC 85.17 ETC 156.39 CLP -98.85

PLANETOCENTRIC CONIC
 C3 24.808 VHL 4.981 CLA -37.44 RAL 27.23 RAD 6568.0 VEL 12.091 PTH 2.16 VHP 6.518 DPA 62.33 RAP 325.57 ECC 1.4083
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.42 7 1 2 1513.42 23.77 13.29 262.10 119.82 7 26 16 913.4 27.54 5.88
 115.58 13 2 20 5663.77 23.78 265.38 262.11 119.81 14 36 44 5063.8 27.56 257.97
 64.42 7 1 2 1513.42 23.77 13.29 262.10 119.82 7 26 16 913.4 27.54 5.88
 115.58 13 2 20 5663.77 23.78 265.38 262.11 119.81 14 36 44 5063.8 27.56 257.97
 64.42 7 1 2 1513.42 23.77 13.29 262.10 119.82 7 26 16 913.4 27.54 5.88
 115.58 13 2 20 5663.77 23.78 265.38 262.11 119.81 14 36 44 5063.8 27.56 257.97

DIFFERENTIAL CORRECTIONS
 TDE -1.3011 TRA -.0630 TC3 -.9947 BAU .6167
 RDE 1.5215 RRA -.4482 RC3 1.5710 FAU .04362
 FDE -1.8367 FRA .5142 FC3 -1.5223 BSP 9414
 BDE 2.0020 BRA .4526 BC3 1.8594 FSP -744

MID-COURSE EXECUTION ACCURACY
 SGT 1797.3 SGR 2436.0 SG3 233.7
 RRT -.9390 RRF -.9947 RTF .9454
 SGB 3027.3 R23 .0877 R13 -.9913
 SG1 2984.9 SG2 504.6 THA 125.90

ORBIT DETERMINATION ACCURACY
 ST 1497.3 SR 1761.6 SS 1196.7
 CRT -.9917 CRS 1.0000 CST -.9924
 LSA 2598.6 MSA 156.1 SSA 5.0
 EL1 2307.3 EL2 147.4 ALF 130.32

LAUNCH DATE FEB 7 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 357.533

RL 147.55 LAL .00 LOL 138.05 VL 27.787 GAL -4.06 AZL 99.16 HCA 164.40 SMA 129.25 ECC .15801 INC 9.1563 V1 30.196
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.546 GAP .95 AZP 81.18 TAL 202.59 TAP 6.99 RCA 108.83 APO 149.68 V2 34.786
 RC 99.636 GL -50.61 GP 73.70 ZAL 113.33 ZAP 94.46 ETS 20.63 ZAE 104.86 ETE 115.36 ZAC 82.10 ETC 161.00 CLP-106.08

PLANETOCENTRIC CONIC

C3 32.570 VHL 5.707 OLA -41.88 RAL 32.77 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 7.578 OPA 63.19 RAP 315.88 ECC 1.5360
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.75 6 52 1 1669.62 23.64 26.34 273.54 125.64 7 19 51 1069.6 28.12 19.39
 122.25 13 55 33 5643.38 23.65 263.58 273.55 125.63 15 29 36 5043.4 28.13 256.63
 57.75 6 52 1 1669.62 23.64 26.34 273.54 125.64 7 19 51 1069.6 28.12 19.39
 122.25 13 55 33 5643.38 23.65 263.58 273.55 125.63 15 29 36 5043.4 28.13 256.63
 57.75 6 52 1 1669.62 23.64 26.34 273.54 125.64 7 19 51 1069.6 28.12 19.39
 122.25 13 55 33 5643.38 23.65 263.58 273.55 125.63 15 29 36 5043.4 28.13 256.63

DIFFERENTIAL CORRECTIONS

TDE-1.8540 TRA .1651 TC3 -.8873 BAU .6194
 RDE 1.8059 RRA -.6569 RC3 1.1119 FAU .03232
 FDE-1.7507 FRA .5808 FC3 -.8590 BSP 10025
 BDE 2.5882 BRA .6773 BC3 1.4225 FSP -.596

MID-COURSE EXECUTION ACCURACY

SGT 2130.7 SGR 2383.8 SG3 186.6
 RRT -.9563 RRF -.9955 RTF .9647
 SGB 3197.2 R23 .0872 R13 -.9926
 SG1 3162.6 SG2 469.5 THA 131.65

ORBIT DETERMINATION ACCURACY

ST 1862.8 SR 1832.8 SS 1161.3
 CRT -.9940 CRS .9999 CST -.9953
 LSA 2855.7 MSA 150.4 SSA 3.7
 EL1 2609.3 EL2 143.3 ALF 135.47

LAUNCH DATE FEB 7 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 363.660

RL 147.55 LAL .00 LOL 138.05 VL 27.772 GAL -3.95 AZL 101.98 HCA 167.49 SMA 129.15 ECC .15796 INC11.9828 V1 30.196
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.533 GAP 1.27 AZP 78.29 TAL 201.88 TAP 9.37 RCA 108.75 APO 149.55 V2 34.784
 RC 102.038 GL -56.58 GP 78.54 ZAL 108.63 ZAP 95.07 ETS 31.19 ZAE 99.42 ETE 124.17 ZAC 78.81 ETC 168.70 CLP-116.39

PLANETOCENTRIC CONIC

C3 47.496 VHL 6.892 OLA -45.89 RAL 39.44 RAD 6568.8 VEL 12.995 PTH 2.37 VHP 9.208 OPA 63.54 RAP 304.45 ECC 1.7817
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.25 6 56 57 1822.39 21.33 38.11 287.19 131.65 7 27 19 1222.4 26.51 31.86
 127.75 14 43 53 5680.85 21.34 264.95 287.20 131.64 16 18 34 5080.8 26.52 258.70
 52.25 6 56 57 1822.39 21.33 38.11 287.19 131.65 7 27 19 1222.4 26.51 31.86
 127.75 14 43 53 5680.85 21.34 264.95 287.20 131.64 16 18 34 5080.8 26.52 258.70
 52.25 6 56 57 1822.39 21.33 38.11 287.19 131.65 7 27 19 1222.4 26.51 31.86
 127.75 14 43 53 5680.85 21.34 264.95 287.20 131.64 16 18 34 5080.8 26.52 258.70

DIFFERENTIAL CORRECTIONS

TDE-2.7297 TRA .6041 TC3 -.6810 BAU .5875
 RDE 2.0037 RRA -.8969 RC3 .6264 FAU .02163
 FDE-1.6360 FRA .6406 FC3 -.3943 BSP 10485
 BDE 3.3861 BRA 1.0814 BC3 .9253 FSP -.453

MID-COURSE EXECUTION ACCURACY

SGT 2559.6 SGR 2160.6 SG3 142.8
 RRT -.9699 RRF -.9956 RTF .9809
 SGB 3349.6 R23 .0810 R13 -.9943
 SG1 3325.0 SG2 405.1 THA 139.98

ORBIT DETERMINATION ACCURACY

ST 2279.8 SR 1696.7 SS 1097.4
 CRT -.9954 CRS .9997 CST -.9974
 LSA 3043.4 MSA 135.7 SSA 2.7
 EL1 2839.0 EL2 130.0 ALF 143.38

LAUNCH DATE FEB 7 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 369.716

RL 147.55 LAL .00 LOL 138.05 VL 27.754 GAL -3.81 AZL 106.60 HCA 170.52 SMA 129.02 ECC .15795 INC16.6031 V1 30.196
 RP 108.94 LAP -2.70 LOP 308.96 VP 37.520 GAP 1.57 AZP 73.61 TAL 201.06 TAP 11.59 RCA 108.64 APO 149.40 V2 34.783
 RC 104.441 GL -61.85 GP 83.78 ZAL 103.76 ZAP 94.91 ETS 52.15 ZAE 92.95 ETE 143.22 ZAC 74.94 ETC 187.09 CLP-142.16

PLANETOCENTRIC CONIC

C3 80.535 VHL 8.974 OLA -48.74 RAL 47.07 RAD 6569.6 VEL 14.209 PTH 2.59 VHP 11.941 OPA 62.78 RAP 290.82 ECC 2.3254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.52 7 14 18 1982.42 16.18 48.21 302.31 136.63 7 47 21 1382.4 21.91 42.72
 131.48 15 27 22 5775.64 16.19 268.78 302.32 136.62 17 3 38 5175.6 21.92 263.28
 48.52 7 14 18 1982.42 16.18 48.21 302.31 136.63 7 47 21 1382.4 21.91 42.72
 131.48 15 27 22 5775.64 16.19 268.78 302.32 136.62 17 3 38 5175.6 21.92 263.28
 48.52 7 14 18 1982.42 16.18 48.21 302.31 136.63 7 47 21 1382.4 21.91 42.72
 131.48 15 27 22 5775.64 16.19 268.78 302.32 136.62 17 3 38 5175.6 21.92 263.28

DIFFERENTIAL CORRECTIONS

TDE-4.3229 TRA 1.5696 TC3 -.4052 BAU .4797
 RDE 1.4299 RRA -.8868 RC3 .1852 FAU .01182
 FDE-1.5325 FRA .7112 FC3 -.1271 BSP 10952
 BDE 4.5532 BRA 1.8028 BC3 .4456 FSP -.335

MID-COURSE EXECUTION ACCURACY

SGT 3233.5 SGR 1296.5 SG3 105.2
 RRT -.9699 RRF -.9880 RTF .9935
 SGB 3483.7 R23 .0673 R13 -.9963
 SG1 3471.2 SG2 294.3 THA 158.59

ORBIT DETERMINATION ACCURACY

ST 2797.5 SR 948.6 SS 1031.7
 CRT -.9938 CRS .9997 CST -.9990
 LSA 3127.2 MSA 104.9 SSA 1.9
 EL1 2952.2 EL2 99.9 ALF 161.35

LAUNCH DATE FEB 7 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 375.628

RL 147.55 LAL .00 LOL 138.05 VL 27.734 GAL -3.64 AZL 115.40 HCA 173.45 SMA 128.88 ECC .15787 INC25.3999 V1 30.196
 RP 108.94 LAP -2.81 LOP 312.12 VP 37.505 GAP 1.83 AZP 64.75 TAL 200.06 TAP 13.50 RCA 108.54 APO 149.23 V2 34.783
 RC 106.844 GL -64.82 GP 83.76 ZAL 98.99 ZAP 94.00 ETS 112.91 ZAE 84.33 ETE 202.08 ZAC 69.55 ETC 246.09 CLP 130.00

PLANETOCENTRIC CONIC

C3 172.100 VHL 13.119 OLA -49.00 RAL 54.52 RAD 6570.9 VEL 17.130 PTH 2.93 VHP 17.217 OPA 59.49 RAP 274.79 ECC 3.8323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.18 7 42 53 2137.14 8.59 55.06 316.96 138.44 8 18 30 1537.1 14.53 50.00
 131.82 15 58 14 636.76 8.61 297.16 316.98 138.43 16 8 51 36.8 14.55 292.11
 48.18 7 42 53 2137.14 8.59 55.06 316.96 138.44 8 18 30 1537.1 14.53 50.00
 131.82 15 58 14 636.76 8.61 297.16 316.98 138.43 16 8 51 36.8 14.55 292.11
 48.18 7 42 53 2137.14 8.59 55.06 316.96 138.44 8 18 30 1537.1 14.53 50.00
 131.82 15 58 14 636.76 8.61 297.16 316.98 138.43 16 8 51 36.8 14.55 292.11

DIFFERENTIAL CORRECTIONS

TDE-4.0710 TRA 2.8066 TC3 -.0621 BAU .1446
 RDE-5.0356 RRA 1.6793 RC3 -.0095 FAU .00105
 FDE-1.5321 FRA .8722 FC3 -.0053 BSP 11120
 BDE 6.4754 BRA 3.2707 BC3 .0628 FSP -.242

MID-COURSE EXECUTION ACCURACY

SGT 2584.4 SGR 2467.3 SG3 76.6
 RRT .9415 RRF .9703 RTF .9943
 SGB 3573.1 R23 -.0620 R13 .9975
 SG1 3520.5 SG2 610.4 THA 43.59

ORBIT DETERMINATION ACCURACY

ST 1864.3 SR 2224.7 SS 1028.6
 CRT .9882 CRS -.9947 CST -.9987
 LSA 3071.3 MSA 223.3 SSA 1.3
 EL1 2894.2 EL2 219.9 ALF 50.10

LAUNCH DATE FEB 7 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.712 GAL -3.38 AZL 136.51 HCA 175.99 SMA 128.73 ECC .15739 INC46.5118 VI 30.196
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.489 GAP 1.97 AZP 43.56 TAL 198.59 TAP 14.58 RCA 108.47 APO 148.99 V2 34.784
 RC 109.246 GL -60.58 GP 70.49 ZAL 94.78 ZAP 92.53 ETS 162.95 ZAE 69.69 ETE 250.24 ZAC 59.69 ETC 297.19 CLP 97.58

DISTANCE 381.119

PLANETOCENTRIC CONIC
 C3 530.968 VHL 23.043 CLA -42.69 RAL 58.35 RAD 6572.4 VEL 25.539 PTH 3.36 VHP 29.630 DPA 49.40 RAP 256.95 ECC 9.7384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.61 8 29 18 2192.67 1.48 52.95 326.73 132.67 9 5 51 1592.7 6.88 47.46
 123.39 15 42 21 852.45 1.50 310.01 326.74 132.67 15 56 33 252.5 6.90 304.51
 56.61 8 29 18 2192.67 1.48 52.95 326.73 132.67 9 5 51 1592.7 6.88 47.46
 123.39 15 42 21 852.45 1.50 310.01 326.74 132.67 15 56 33 252.5 6.90 304.51
 56.61 8 29 18 2192.67 1.48 52.95 326.73 132.67 9 5 51 1592.7 6.88 47.46
 123.39 15 42 21 852.45 1.50 310.01 326.74 132.67 15 56 33 252.5 6.90 304.51

MID-COURSE EXECUTION ACCURACY
 SGT 748.2 SGR 3414.5 SG3 59.2
 RRT -.3338 RRF .9991 RTF -.2938
 SGB 3495.5 R23 -.0578 R13 .9983
 SG1 3424.0 SG2 703.3 THA 94.37

ORBIT DETERMINATION ACCURACY
 ST 644.8 SR 2522.0 SS 1252.2
 CRT -.9042 CRS -.9997 CST .8941
 LSA 2875.6 MSA 273.5 SSA .3
 EL1 2589.2 EL2 268.2 ALF 103.16

DIFFERENTIAL CORRECTIONS
 TDE 2.5558 TRA 1.0733 TC3 -.0337 BAU 1.2866
 RDE -9.7705 RRA 6.6645 RC3 .1781 FAU -.02151
 FDE -1.8823 FRA 1.3999 FC3 .0351 BSP 11001
 BDE 10.0992 BRA 6.7503 BC3 .1812 FSP -191

LAUNCH DATE FEB 7 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.688 GAL -4.06 AZL 7.65 HCA 183.03 SMA 128.56 ECC .16345 INC82.3476 VI 30.196
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.472 GAP 3.39 AZP 172.34 TAL 201.60 TAP 24.62 RCA 107.55 APO 149.57 V2 34.785
 RC 111.645 GL 45.81 GP -51.99 ZAL 93.38 ZAP 92.75 ETS 178.62 ZAE 53.54 ETE 94.22 ZAC 71.93 ETC 51.94 CLP 94.47

DISTANCE 391.361

PLANETOCENTRIC CONIC
 C31457.415 VHL 38.176 CLA 57.96 RAL 16.71 RAD 6573.2 VEL 39.733 PTH 3.56 VHP 46.860 DPA -64.09 RAP 197.84 ECC24.9854
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.06 16 37 24 5041.52 1.19 239.42 287.46 32.05 18 1 26 4441.5 -5.59 235.59
 142.94 2 2 0 3397.41 1.20 105.72 287.44 32.05 2 58 38 2797.4 -5.58 101.89
 37.06 16 37 24 5041.52 1.19 239.42 287.46 32.05 18 1 26 4441.5 -5.59 235.59
 142.94 2 2 0 3397.41 1.20 105.72 287.44 32.05 2 58 38 2797.4 -5.58 101.89
 37.06 16 37 24 5041.52 1.19 239.42 287.46 32.05 18 1 26 4441.5 -5.59 235.59
 142.94 2 2 0 3397.41 1.20 105.72 287.44 32.05 2 58 38 2797.4 -5.58 101.89

MID-COURSE EXECUTION ACCURACY
 SGT 1287.8 SGR 2846.2 SG3 54.4
 RRT .8829 RRF -1.0000 RTF -.8819
 SGB 3124.0 R23 -.0775 R13 -.9970
 SG1 3073.4 SG2 560.1 THA 67.43

ORBIT DETERMINATION ACCURACY
 ST 813.9 SR 2396.1 SS 2157.6
 CRT .9786 CRS 1.0000 CST .9787
 LSA 3321.5 MSA 162.5 SSA .8
 EL1 2525.5 EL2 159.0 ALF 71.54

DIFFERENTIAL CORRECTIONS
 TDE -5.2811 TRA 2.1608 TC3 -.1061 BAU 4.4160
 RDE -15.9588 RRA .5705 RC3 -.2003 FAU -.07356
 FDE 3.5494 FRA -.1302 FC3 .0437 BSP 9750
 BDE 16.8099 BRA 2.2349 BC3 .2266 FSP -180

LAUNCH DATE FEB 7 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.662 GAL -3.59 AZL 49.13 HCA 184.71 SMA 128.38 ECC .16166 INC40.8655 VI 30.196
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.455 GAP 3.27 AZP 130.77 TAL 199.23 TAP 23.94 RCA 107.63 APO 149.14 V2 34.787
 RC 114.042 GL 62.18 GP -75.21 ZAL 95.69 ZAP 95.10 ETS 186.93 ZAE 77.86 ETE 102.18 ZAC 89.81 ETC 64.22 CLP 110.38

DISTANCE 395.913

PLANETOCENTRIC CONIC
 C3 417.167 VHL 20.425 CLA 66.92 RAL 345.00 RAD 6572.2 VEL 23.205 PTH 3.28 VHP 24.521 DPA -77.35 RAP 127.84 ECC 7.8655
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.44 14 5 15 5011.88 -3.32 243.83 253.60 23.12 15 28 47 4411.9 -10.67 241.06
 153.56 0 21 14 3279.85 -3.31 97.61 253.58 23.12 1 15 54 2679.9 -10.66 94.84
 26.44 14 5 15 5011.88 -3.32 243.83 253.60 23.12 15 28 47 4411.9 -10.67 241.06
 153.56 0 21 14 3279.85 -3.31 97.61 253.58 23.12 1 15 54 2679.9 -10.66 94.84
 26.44 14 5 15 5011.88 -3.32 243.83 253.60 23.12 15 28 47 4411.9 -10.67 241.06
 153.56 0 21 14 3279.85 -3.31 97.61 253.58 23.12 1 15 54 2679.9 -10.66 94.84

MID-COURSE EXECUTION ACCURACY
 SGT 979.0 SGR 3677.8 SG3 65.2
 RRT .6278 RRF -.9992 RTF -.6061
 SGB 3805.9 R23 -.0622 R13 -.9976
 SG1 3731.0 SG2 751.2 THA 80.11

ORBIT DETERMINATION ACCURACY
 ST 290.0 SR 2830.0 SS 1258.5
 CRT .0814 CRS .9999 CST .0704
 LSA 3097.2 MSA 289.4 SSA 1.4
 EL1 2830.1 EL2 289.1 ALF 89.52

DIFFERENTIAL CORRECTIONS
 TDE .1764 TRA 1.3309 TC3 -.0542 BAU .9660
 RDE -9.7673 RRA 3.2973 RC3 -.1645 FAU -.01330
 FDE 2.0559 FRA -.6627 FC3 .0276 BSP 11671
 BDE 9.7689 BRA 3.5557 BC3 .1732 FSP -209

LAUNCH DATE FEB 7 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 27.634 GAL -3.34 AZL 64.82 HCA 187.43 SMA 128.20 ECC .16160 INC25.1834 VI 30.196
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.437 GAP 3.44 AZP 115.00 TAL 197.80 TAP 25.23 RCA 107.48 APO 148.91 V2 34.790
 RC 116.435 GL 64.64 GP -81.03 ZAL 98.41 ZAP 98.69 ETS 237.84 ZAE 90.00 ETE 153.09 ZAC 97.83 ETC 116.19 CLP 165.77

DISTANCE 401.539

PLANETOCENTRIC CONIC
 C3 168.756 VHL 12.991 CLA 65.40 RAL 335.20 RAD 6570.8 VEL 17.032 PTH 2.93 VHP 15.235 DPA -72.39 RAP 81.57 ECC 3.7773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.22 13 30 11 4887.67 -10.59 239.84 240.30 25.06 14 51 38 4287.7 -17.81 236.71
 151.78 23 34 10 3167.64 -10.58 95.60 240.28 25.06 24 26 57 2567.6 -17.80 92.47
 28.22 13 30 11 4887.67 -10.59 239.84 240.30 25.06 14 51 38 4287.7 -17.81 236.71
 151.78 23 34 10 3167.64 -10.58 95.60 240.28 25.06 24 26 57 2567.6 -17.80 92.47
 28.22 13 30 11 4887.67 -10.59 239.84 240.30 25.06 14 51 38 4287.7 -17.81 236.71
 151.78 23 34 10 3167.64 -10.58 95.60 240.28 25.06 24 26 57 2567.6 -17.80 92.47

MID-COURSE EXECUTION ACCURACY
 SGT 2584.0 SGR 3072.4 SG3 88.1
 RRT -.9341 RRF -.9696 RTF .9916
 SGB 4014.6 R23 -.0933 R13 -.9946
 SG1 3949.9 SG2 717.4 THA 129.72

ORBIT DETERMINATION ACCURACY
 ST 1975.1 SR 1608.1 SS 918.9
 CRT -.9639 CRS .9804 CST -.9975
 LSA 2686.9 MSA 336.5 SSA 1.7
 EL1 2524.9 EL2 335.1 ALF 141.06

DIFFERENTIAL CORRECTIONS
 TDE 4.3187 TRA -1.6438 TC3 -.0486 BAU .1178
 RDE -3.1323 RRA 2.5900 RC3 .0191 FAU .00637
 FDE 1.4926 FRA -.7306 FC3 -.0327 BSP 12690
 BDE 5.3350 BRA 3.0676 BC3 .0522 FSP -288

LAUNCH DATE FEB 7 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 407.416

RL 147.55 LAL .00 LOL 138.05 VL 27.605 GAL -3.13 AZL 71.88 HCA 190.41 SMA 128.00 ECC .16202 INC18.1181 VI 30.196
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.419 GAP 3.68 AZP 107.84 TAL 196.58 TAP 26.98 RCA 107.26 APO 148.74 V2 34.794
 RC 118.823 GL 62.92 GP -76.19 ZAL 100.77 ZAP 102.85 ETS 292.80 ZAE 97.85 ETE 207.54 ZAC 102.35 ETC 171.56 CLP-158.71

PLANETOCENTRIC CONIC

C3 92.684 VHL 9.627 DLA 62.87 RAL 335.98 RAD 6569.8 VEL 14.630 PTH 2.65 VHP 11.092 DPA -66.15 RAP 63.84 ECC 2.5253
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.19 13 40 14 4759.36 -17.40 234.31 236.76 28.54 14 59 34 4159.4 -24.38 230.54
 148.81 23 30 21 3061.64 -17.39 93.46 236.74 28.54 24 21 22 2461.6 -24.37 89.69
 31.19 13 40 14 4759.36 -17.40 234.31 236.76 28.54 14 59 34 4159.4 -24.38 230.54
 148.81 23 30 21 3061.64 -17.39 93.46 236.74 28.54 24 21 22 2461.6 -24.37 89.69
 31.19 13 40 14 4759.36 -17.40 234.31 236.76 28.54 14 59 34 4159.4 -24.38 230.54
 148.81 23 30 21 3061.64 -17.39 93.46 236.74 28.54 24 21 22 2461.6 -24.37 89.69

DIFFERENTIAL CORRECTIONS

TOE 3.8192 TRA-2.5560 TC3 -.3599 BAU .4513
 ROE .8177 RRA -.0831 RC3 -.0561 FAU .01838
 FDE 1.4816 FRA -.7773 FC3 -.1717 BSP 13103
 BOE 3.9058 BRA 2.5573 BC3 .3642 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 4096.1 SGR 510.2 SG3 119.6
 RRT .7384 RRF .8140 RTF .9909
 SGB 4127.7 R23 .1145 R13 .9918
 SG1 4113.5 SG2 342.6 THA 5.29

ORBIT DETERMINATION ACCURACY

ST 2483.7 SR 487.7 SS 894.0
 CRT .9401 CRS -.9649 CST -.9966
 LSA 2678.7 MSA 174.0 SSA 2.1
 EL1 2525.8 EL2 163.6 ALF 10.50

LAUNCH DATE FEB 7 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 413.360

RL 147.55 LAL .00 LOL 138.05 VL 27.575 GAL -2.93 AZL 75.80 HCA 193.47 SMA 127.79 ECC .16266 INC14.1987 VI 30.196
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.401 GAP 3.93 AZP 103.82 TAL 195.40 TAP 28.87 RCA 107.01 APO 148.58 V2 34.798
 RC 121.206 GL 60.08 GP -69.77 ZAL 102.61 ZAP 107.30 ETS 305.38 ZAE 103.89 ETE 218.98 ZAC 105.55 ETC 184.08 CLP-149.33

PLANETOCENTRIC CONIC

C3 60.748 VHL 7.794 DLA 60.43 RAL 339.52 RAD 6569.1 VEL 13.495 PTH 2.47 VHP 8.897 DPA -60.21 RAP 54.14 ECC 1.9998
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.09 14 1 26 4648.88 -22.68 228.52 235.82 32.33 15 18 55 4048.9 -29.36 224.04
 145.91 23 37 22 2975.97 -22.67 91.12 235.80 32.32 24 26 58 2376.0 -29.35 86.64
 34.09 14 1 26 4648.88 -22.68 228.52 235.82 32.33 15 18 55 4048.9 -29.36 224.04
 145.91 23 37 22 2975.97 -22.67 91.12 235.80 32.32 24 26 58 2376.0 -29.35 86.64
 34.09 14 1 26 4648.88 -22.68 228.52 235.82 32.33 15 18 55 4048.9 -29.36 224.04
 145.91 23 37 22 2975.97 -22.67 91.12 235.80 32.32 24 26 58 2376.0 -29.35 86.64

DIFFERENTIAL CORRECTIONS

TOE 2.9449 TRA-2.2052 TC3 -.7530 BAU .6477
 ROE 1.2284 RRA -.5148 RC3 -.2630 FAU .03114
 FDE 1.5556 FRA -.8588 FC3 -.4437 BSP 15339
 BOE 3.1908 BRA 2.2645 BC3 .7976 FSP -620

MID-COURSE EXECUTION ACCURACY

SGT 4105.9 SGR 1253.7 SG3 159.9
 RRT .9628 RRF .9905 RTF .9861
 SGB 4293.1 R23 .1299 R13 .9893
 SG1 4280.7 SG2 325.0 THA 16.48

ORBIT DETERMINATION ACCURACY

ST 2378.9 SR 931.9 SS 927.4
 CRT .9842 CRS -.9972 CST -.9947
 LSA 2712.8 MSA 168.8 SSA 2.6
 EL1 2550.3 EL2 153.7 ALF 21.17

LAUNCH DATE FEB 7 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 419.347

RL 147.55 LAL .00 LOL 138.05 VL 27.544 GAL -2.73 AZL 78.28 HCA 196.56 SMA 127.58 ECC .16342 INC11.7159 VI 30.196
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.383 GAP 4.19 AZP 101.24 TAL 194.21 TAP 30.77 RCA 106.73 APO 148.43 V2 34.803
 RC 123.581 GL 57.01 GP -63.62 ZAL 103.91 ZAP 111.82 ETS 309.28 ZAE 108.84 ETE 221.14 ZAC 108.10 ETC 187.53 CLP-146.77

PLANETOCENTRIC CONIC

C3 44.367 VHL 6.661 DLA 58.22 RAL 343.70 RAD 6568.7 VEL 12.874 PTH 2.34 VHP 7.605 DPA -54.56 RAP 47.96 ECC 1.7302
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.74 14 24 54 4558.20 -26.47 222.95 235.76 36.03 15 40 52 3958.2 -32.83 217.78
 143.26 23 47 16 2910.82 -26.45 88.84 235.74 36.03 24 35 46 2310.8 -32.81 83.67
 36.74 14 24 54 4558.20 -26.47 222.95 235.76 36.03 15 40 52 3958.2 -32.83 217.78
 143.26 23 47 16 2910.82 -26.45 88.84 235.74 36.03 24 35 46 2310.8 -32.81 83.67
 36.74 14 24 54 4558.20 -26.47 222.95 235.76 36.03 15 40 52 3958.2 -32.83 217.78
 143.26 23 47 16 2910.82 -26.45 88.84 235.74 36.03 24 35 46 2310.8 -32.81 83.67

DIFFERENTIAL CORRECTIONS

TOE 2.6664 TRA-1.8450 TC3 -1.0844 BAU .6808
 ROE 1.2117 RRA -.4412 RC3 -.3761 FAU .03805
 FDE 1.7431 FRA -.8004 FC3 -.7425 BSP 13268
 BOE 2.9288 BRA 1.8970 BC3 1.1478 FSP -626

MID-COURSE EXECUTION ACCURACY

SGT 4053.5 SGR 1362.6 SG3 192.0
 RRT .9571 RRF .9912 RTF .9781
 SGB 4276.4 R23 .1619 R13 .9831
 SG1 4259.8 SG2 375.8 THA 17.98

ORBIT DETERMINATION ACCURACY

ST 2465.8 SR 1064.6 SS 1018.6
 CRT .9854 CRS -.9987 CST -.9929
 LSA 2866.2 MSA 188.7 SSA 3.3
 EL1 2680.6 EL2 166.6 ALF 23.14

LAUNCH DATE FEB 7 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 425.331

RL 147.55 LAL .00 LOL 138.05 VL 27.512 GAL -2.52 AZL 80.00 HCA 199.68 SMA 127.37 ECC .16433 INC 9.9993 VI 30.196
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.364 GAP 4.46 AZP 99.43 TAL 193.00 TAP 32.68 RCA 106.44 APO 148.29 V2 34.808
 RC 125.948 GL 54.00 GP -57.93 ZAL 104.73 ZAP 116.27 ETS 310.94 ZAE 112.95 ETE 220.56 ZAC 110.29 ETC 188.45 CLP-146.46

PLANETOCENTRIC CONIC

C3 34.800 VHL 5.899 DLA 56.24 RAL 347.93 RAD 6568.4 VEL 12.497 PTH 2.26 VHP 6.799 DPA -49.22 RAP 43.78 ECC 1.5727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.14 14 48 12 4484.06 -29.09 217.78 236.11 39.49 16 2 56 3884.1 -35.12 211.99
 140.86 0 1 37 2862.34 -29.08 86.79 236.09 39.48 0 49 19 2262.3 -35.11 80.99
 39.14 14 48 12 4484.06 -29.09 217.78 236.11 39.49 16 2 56 3884.1 -35.12 211.99
 140.86 0 1 37 2862.34 -29.08 86.79 236.09 39.48 0 49 19 2262.3 -35.11 80.99
 39.14 14 48 12 4484.06 -29.09 217.78 236.11 39.49 16 2 56 3884.1 -35.12 211.99
 140.86 0 1 37 2862.34 -29.08 86.79 236.09 39.48 0 49 19 2262.3 -35.11 80.99

DIFFERENTIAL CORRECTIONS

TOE 2.4631 TRA-1.6427 TC3 -1.5058 BAU .7372
 ROE 1.0767 RRA -.3660 RC3 -.4930 FAU .04653
 FDE 1.8408 FRA -.7662 FC3 -1.1575 BSP 13566
 BOE 2.6882 BRA 1.6830 BC3 1.5845 FSP -746

MID-COURSE EXECUTION ACCURACY

SGT 4138.1 SGR 1356.9 SG3 226.2
 RRT .9567 RRF .9910 RTF .9736
 SGB 4354.8 R23 .1778 R13 .9789
 SG1 4338.5 SG2 376.6 THA 17.55

ORBIT DETERMINATION ACCURACY

ST 2543.2 SR 1063.3 SS 1076.7
 CRT .9866 CRS -.9992 CST -.9923
 LSA 2953.3 MSA 189.4 SSA 4.1
 EL1 2751.9 EL2 160.6 ALF 22.50

LAUNCH DATE FEB 7 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 431.312

RL 147.55 LAL .00 LOL 138.05 VL 27.479 GAL -2.30 AZL 81.26 HCA 202.82 SMA 127.14 ECC .16535 INC 8.7370 V1 30.196
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.346 GAP 4.72 AZP 98.06 TAL 191.77 TAP 34.59 RCA 106.12 APO 148.17 V2 34.815
 RC 128.306 GL 51.15 GP -52.75 ZAL 105.10 ZAP 120.54 ETS 311.88 ZAE 116.35 ETE 218.90 ZAC 112.24 ETC 188.44 CLP-147.07

PLANETOCENTRIC CONIC

C3 28.681 VHL 5.355 DLA 54.49 RAL 352.06 RAD 6568.2 VEL 12.250 PTH 2.20 VHP 6.282 OPA -44.21 RAP 40.91 ECC 1.4720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.28 15 10 40 4422.92 -30.89 213.10 236.80 42.60 16 24 23 3822.9 -36.61 206.78
 138.72 0 12 7 2826.25 -30.88 85.00 236.79 42.59 0 59 13 2226.2 -36.59 78.68
 41.28 15 10 40 4422.92 -30.89 213.10 236.80 42.60 16 24 23 3822.9 -36.61 206.78
 138.72 0 12 7 2826.25 -30.88 85.00 236.79 42.59 0 59 13 2226.2 -36.59 78.68
 41.28 15 10 40 4422.92 -30.89 213.10 236.80 42.60 16 24 23 3822.9 -36.61 206.78
 138.72 0 12 7 2826.25 -30.88 85.00 236.79 42.59 0 59 13 2226.2 -36.59 78.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.3333 TRA-1.4783 TC3-1.9512 BAU .7800 SGT 4244.2 SGR 1295.4 SG3 255.7 ST 2627.3 SR 1021.4 SS 1119.4
 RDE .9429 RRA -.2878 RC3 -.5751 FAU .05355 RRT .9547 RRF .9892 RTF .9699 CRT .9872 CRS -.9995 CST -.9919
 FDE 1.8930 FRA -.6998 FC3-1.6163 BSP 13905 SGB 4437.5 R23 .1887 R13 .9748 LSA 3027.1 MSA 188.0 SSA 5.0
 BOE 2.5166 BRA 1.5060 BC3 2.0342 FSP -855 SG1 4422.0 SG2 370.0 THA 16.36 EL1 2814.8 EL2 151.9 ALF 21.06

LAUNCH DATE FEB 7 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 437.287

RL 147.55 LAL .00 LOL 138.05 VL 27.445 GAL -2.08 AZL 82.23 HCA 205.96 SMA 126.92 ECC .16649 INC 7.7653 V1 30.196
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.327 GAP 4.99 AZP 96.99 TAL 190.51 TAP 36.47 RCA 105.79 APO 148.05 V2 34.821
 RC 130.653 GL 48.47 GP -48.08 ZAL 105.06 ZAP 124.56 ETS 312.55 ZAE 119.12 ETE 216.75 ZAC 114.05 ETC 188.05 CLP-148.10

PLANETOCENTRIC CONIC

C3 24.502 VHL 4.950 DLA 52.96 RAL 356.09 RAD 6568.0 VEL 12.078 PTH 2.16 VHP 5.948 OPA -39.56 RAP 38.97 ECC 1.4032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.18 15 32 16 4371.82 -32.11 208.92 237.83 45.34 16 45 7 3771.8 -37.54 202.17
 136.82 0 22 39 2799.27 -32.10 83.50 237.81 45.33 1 9 18 2199.3 -37.52 76.75
 43.18 15 32 16 4371.82 -32.11 208.92 237.83 45.34 16 45 7 3771.8 -37.54 202.17
 136.82 0 22 39 2799.27 -32.10 83.50 237.81 45.33 1 9 18 2199.3 -37.52 76.75
 43.18 15 32 16 4371.82 -32.11 208.92 237.83 45.34 16 45 7 3771.8 -37.54 202.17
 136.82 0 22 39 2799.27 -32.10 83.50 237.81 45.33 1 9 18 2199.3 -37.52 76.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.2451 TRA-1.3303 TC3-2.4058 BAU .8140 SGT 4354.2 SGR 1212.5 SG3 279.0 ST 2710.4 SR 965.4 SS 1147.2
 RDE .8268 RRA -.2175 RC3 -.6224 FAU .05874 RRT .9514 RRF .9860 RTF .9663 CRT .9877 CRS -.9996 CST -.9915
 FDE 1.9043 FRA -.6034 FC3-2.0756 BSP 14179 SGB 4519.9 R23 .1956 R13 .9707 LSA 3091.9 MSA 186.1 SSA 5.9
 BOE 2.3925 BRA 1.3479 BC3 2.4850 FSP -936 SG1 4505.5 SG2 361.0 THA 14.94 EL1 2873.7 EL2 142.2 ALF 19.43

LAUNCH DATE FEB 7 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 443.254

RL 147.55 LAL .00 LOL 138.05 VL 27.410 GAL -1.85 AZL 83.01 HCA 209.11 SMA 126.69 ECC .16774 INC 6.9904 V1 30.196
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.308 GAP 5.25 AZP 96.11 TAL 189.23 TAP 38.34 RCA 105.43 APO 147.94 V2 34.829
 RC 132.989 GL 45.97 GP -43.90 ZAL 104.66 ZAP 128.29 ETS 313.12 ZAE 121.34 ETE 214.42 ZAC 115.78 ETC 187.51 CLP-149.32

PLANETOCENTRIC CONIC

C3 21.505 VHL 4.637 DLA 51.61 RAL .04 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 5.737 OPA -35.29 RAP 37.73 ECC 1.3539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.86 15 53 6 4328.65 -32.94 205.23 239.18 47.72 17 5 14 3728.6 -38.10 198.12
 135.14 0 33 21 2778.92 -32.93 82.25 239.16 47.71 1 19 40 2178.9 -38.09 75.15
 44.86 15 53 6 4328.65 -32.94 205.23 239.18 47.72 17 5 14 3728.6 -38.10 198.12
 135.14 0 33 21 2778.92 -32.93 82.25 239.16 47.71 1 19 40 2178.9 -38.09 75.15
 44.86 15 53 6 4328.65 -32.94 205.23 239.18 47.72 17 5 14 3728.6 -38.10 198.12
 135.14 0 33 21 2778.92 -32.93 82.25 239.16 47.71 1 19 40 2178.9 -38.09 75.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.1816 TRA-1.1909 TC3-2.8644 BAU .8440 SGT 4465.3 SGR 1125.7 SG3 296.1 ST 2788.8 SR 906.5 SS 1161.2
 RDE .7296 RRA -.1588 RC3 -.6424 FAU .06228 RRT .9472 RRF .9813 RTF .9631 CRT .9883 CRS -.9998 CST -.9911
 FDE 1.8805 FRA -.4874 FC3-2.5074 BSP 14463 SGB 4605.0 R23 .1978 R13 .9669 LSA 3148.6 MSA 183.6 SSA 6.9
 BOE 2.3004 BRA 1.2015 BC3 2.9355 FSP -997 SG1 4591.6 SG2 351.2 THA 13.51 EL1 2929.5 EL2 131.8 ALF 17.85

LAUNCH DATE FEB 7 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 449.210

RL 147.55 LAL .00 LOL 138.05 VL 27.375 GAL -1.60 AZL 83.65 HCA 212.26 SMA 126.45 ECC .16912 INC 6.3546 V1 30.196
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.290 GAP 5.52 AZP 95.38 TAL 187.92 TAP 40.18 RCA 105.07 APO 147.84 V2 34.837
 RC 135.313 GL 43.62 GP -40.20 ZAL 103.92 ZAP 131.73 ETS 313.63 ZAE 123.11 ETE 212.07 ZAC 117.46 ETC 186.93 CLP-150.62

PLANETOCENTRIC CONIC

C3 19.277 VHL 4.391 DLA 50.44 RAL 3.96 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 5.613 OPA -31.37 RAP 37.02 ECC 1.3173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.34 16 13 22 4291.79 -33.49 201.97 240.84 49.79 17 24 54 3691.8 -38.41 194.59
 133.66 0 44 21 2763.55 -33.48 81.23 240.83 49.78 1 30 25 2163.5 -38.40 73.85
 46.34 16 13 22 4291.79 -33.49 201.97 240.84 49.79 17 24 54 3691.8 -38.41 194.59
 133.66 0 44 21 2763.55 -33.48 81.23 240.83 49.78 1 30 25 2163.5 -38.40 73.85
 46.34 16 13 22 4291.79 -33.49 201.97 240.84 49.79 17 24 54 3691.8 -38.41 194.59
 133.66 0 44 21 2763.55 -33.48 81.23 240.83 49.78 1 30 25 2163.5 -38.40 73.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.1338 TRA-1.0556 TC3-3.3191 BAU .8712 SGT 4574.5 SGR 1042.3 SG3 307.6 ST 2860.5 SR 850.4 SS 1163.4
 RDE .6494 RRA -.1111 RC3 -.6404 FAU .06428 RRT .9420 RRF .9749 RTF .9601 CRT .9889 CRS -.9999 CST -.9907
 FDE 1.8296 FRA -.3606 FC3-2.8867 BSP 14751 SGB 4691.8 R23 .1949 R13 .9633 LSA 3197.9 MSA 180.8 SSA 7.9
 BOE 2.2304 BRA 1.0614 BC3 3.3803 FSP -1036 SG1 4679.3 SG2 342.0 THA 12.18 EL1 2981.8 EL2 121.0 ALF 16.41

LAUNCH DATE FEB 7 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 455.155

RL 147.55 LAL .00 LOL 138.05 VL 27.339 GAL -1.35 AZL 84.18 MCA 215.42 SMA 126.22 ECC .17062 INC 5.8207 V1 30.196
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.272 GAP 5.79 AZP 94.75 TAL 186.58 TAP 42.00 RCA 104.68 APO 147.75 V2 34.846
 RC 137.625 GL 41.39 GP -36.91 ZAL 102.87 ZAP 134.88 ETS 314.10 ZAE 124.50 ETE 209.79 ZAC 119.14 ETC 186.36 CLP-151.95

PLANETOCENTRIC CONIC

C3 17.577 VHL 4.192 OLA 49.40 RAL 7.88 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 5.550 DPA -27.80 RAP 36.73 ECC 1.2893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.66 16 33 17 4259.99 -33.84 199.08 242.82 51.58 17 44 17 3660.0 -38.56 191.49
 132.34 0 55 42 2752.09 -33.83 80.41 242.81 51.57 1 41 34 2152.1 -38.55 72.82
 47.66 16 33 17 4259.99 -33.84 199.08 242.82 51.58 17 44 17 3660.0 -38.56 191.49
 132.34 0 55 42 2752.09 -33.83 80.41 242.81 51.57 1 41 34 2152.1 -38.55 72.82
 47.66 16 33 17 4259.99 -33.84 199.08 242.82 51.58 17 44 17 3660.0 -38.56 191.49
 132.34 0 55 42 2752.09 -33.83 80.41 242.81 51.57 1 41 34 2152.1 -38.55 72.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.0972 TRA -9.192 TC3-3.7643 BAU .8966 SGT 4680.2 SGR 966.0 SG3 314.2 ST 2925.5 SR 799.6 SS 1155.8
 ROE .5840 RRA -.0723 RC3 -.6232 FAU .06502 RRT .9356 RRF .9666 RTF .9573 CRT .9898 CRS -.9999 CST -.9903
 FDE 1.7596 FRA -.2279 FC3-3.2026 BSP 15018 SGB 4778.8 R23 .1877 R13 .9600 LSA 3240.7 MSA 177.8 SSA 9.0
 BDE 2.1770 BRA .9221 BC3 3.8155 FSP -1056 SG1 4767.1 SG2 334.7 THA 10.99 EL1 3030.9 EL2 109.9 ALF 15.16

LAUNCH DATE FEB 7 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 461.087

RL 147.55 LAL .00 LOL 138.05 VL 27.303 GAL -1.08 AZL 84.64 MCA 218.58 SMA 125.98 ECC .17225 INC 5.3635 V1 30.196
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.254 GAP 6.05 AZP 94.20 TAL 185.22 TAP 43.80 RCA 104.28 APO 147.68 V2 34.855
 RC 139.923 GL 39.26 GP -34.01 ZAL 101.54 ZAP 137.77 ETS 314.52 ZAE 125.59 ETE 207.64 ZAC 120.81 ETC 185.82 CLP-153.28

PLANETOCENTRIC CONIC

C3 16.257 VHL 4.032 OLA 48.48 RAL 11.83 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 5.533 DPA -24.53 RAP 36.79 ECC 1.2675
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.85 16 53 0 4232.45 -34.04 196.54 245.10 53.13 18 3 32 3632.5 -38.58 188.77
 131.15 1 7 30 2743.70 -34.03 79.77 245.09 53.12 1 53 13 2143.7 -38.57 72.00
 48.85 16 53 0 4232.45 -34.04 196.54 245.10 53.13 18 3 32 3632.5 -38.58 188.77
 131.15 1 7 30 2743.70 -34.03 79.77 245.09 53.12 1 53 13 2143.7 -38.57 72.00
 48.85 16 53 0 4232.45 -34.04 196.54 245.10 53.13 18 3 32 3632.5 -38.58 188.77
 131.15 1 7 30 2743.70 -34.03 79.77 245.09 53.12 1 53 13 2143.7 -38.57 72.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.0661 TRA -.7826 TC3-4.1991 BAU .9218 SGT 4785.4 SGR 899.1 SG3 317.1 ST 2980.5 SR 754.8 SS 1139.5
 ROE .5307 RRA -.0417 RC3 -.5969 FAU .06486 RRT .9283 RRF .9561 RTF .9550 CRT .9909 CRS -.9998 CST -.9898
 FDE 1.6756 FRA -.0980 FC3-3.4540 BSP 15327 SGB 4869.1 R23 .1756 R13 .9572 LSA 3274.3 MSA 174.3 SSA 10.2
 BDE 2.1331 BRA .7837 BC3 4.2413 FSP -1066 SG1 4858.0 SG2 329.4 THA 9.94 EL1 3073.0 EL2 98.5 ALF 14.10

LAUNCH DATE FEB 7 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 467.007

RL 147.55 LAL .00 LOL 138.05 VL 27.266 GAL -.81 AZL 85.03 MCA 221.74 SMA 125.74 ECC .17402 INC 4.9653 V1 30.196
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.236 GAP 6.32 AZP 93.71 TAL 183.84 TAP 45.58 RCA 103.86 APO 147.62 V2 34.865
 RC 142.207 GL 37.21 GP -31.44 ZAL 99.95 ZAP 140.42 ETS 314.88 ZAE 126.42 ETE 205.65 ZAC 122.52 ETC 185.32 CLP-154.60

PLANETOCENTRIC CONIC

C3 15.223 VHL 3.902 OLA 47.64 RAL 15.83 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 5.552 DPA -21.54 RAP 37.12 ECC 1.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.94 17 12 41 4208.41 -34.13 194.26 247.66 54.49 18 22 49 3608.4 -38.50 186.36
 130.06 1 19 43 2738.00 -34.12 79.29 247.65 54.48 2 5 21 2138.0 -38.49 71.38
 49.94 17 12 41 4208.41 -34.13 194.26 247.66 54.49 18 22 49 3608.4 -38.50 186.36
 130.06 1 19 43 2738.00 -34.12 79.29 247.65 54.48 2 5 21 2138.0 -38.49 71.38
 49.94 17 12 41 4208.41 -34.13 194.26 247.66 54.49 18 22 49 3608.4 -38.50 186.36
 130.06 1 19 43 2738.00 -34.12 79.29 247.65 54.48 2 5 21 2138.0 -38.49 71.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.0381 TRA -.6425 TC3-4.6130 BAU .9458 SGT 4886.3 SGR 840.8 SG3 316.8 ST 3024.2 SR 715.9 SS 1115.5
 ROE .4873 RRA -.0169 RC3 -.5635 FAU .06389 RRT .9192 RRF .9432 RTF .9531 CRT .9922 CRS -.9996 CST -.9892
 FDE 1.5826 FRA .0283 FC3-3.6335 BSP 15646 SGB 4958.1 R23 .1604 R13 .9548 LSA 3297.4 MSA 170.8 SSA 11.4
 BDE 2.0956 BRA .6427 BC3 4.6473 FSP -1065 SG1 4947.3 SG2 327.0 THA 9.03 EL1 3106.5 EL2 87.0 ALF 13.23

LAUNCH DATE FEB 7 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 472.913

RL 147.55 LAL .00 LOL 138.05 VL 27.229 GAL -.52 AZL 85.39 MCA 224.91 SMA 125.50 ECC .17593 INC 4.6133 V1 30.196
 RP 108.66 LAP -3.26 LOP 360.00 VP 37.219 GAP 6.59 AZP 93.27 TAL 182.43 TAP 47.35 RCA 103.42 APO 147.58 V2 34.875
 RC 144.478 GL 35.23 GP -29.17 ZAL 98.13 ZAP 142.84 ETS 315.17 ZAE 127.07 ETE 203.83 ZAC 124.25 ETC 184.86 CLP-155.88

PLANETOCENTRIC CONIC

C3 14.414 VHL 3.797 OLA 46.85 RAL 19.89 RAD 6567.6 VEL 11.653 PTH 2.05 VHP 5.597 DPA -18.79 RAP 37.69 ECC 1.2372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.97 17 32 29 4187.23 -34.11 192.21 250.49 55.69 18 42 17 3587.2 -38.34 184.20
 129.03 1 32 20 2734.83 -34.10 78.97 250.48 55.68 2 17 55 2134.8 -38.33 70.96
 50.97 17 32 29 4187.23 -34.11 192.21 250.49 55.69 18 42 17 3587.2 -38.34 184.20
 129.03 1 32 20 2734.83 -34.10 78.97 250.48 55.68 2 17 55 2134.8 -38.33 70.96
 50.97 17 32 29 4187.23 -34.11 192.21 250.49 55.69 18 42 17 3587.2 -38.34 184.20
 129.03 1 32 20 2734.83 -34.10 78.97 250.48 55.68 2 17 55 2134.8 -38.33 70.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.0107 TRA -.4980 TC3-5.0032 BAU .9695 SGT 4984.8 SGR 791.4 SG3 314.3 ST 3054.3 SR 682.3 SS 1084.4
 ROE .4521 RRA .0030 RC3 -.5282 FAU .06246 RRT .9091 RRF .9281 RTF .9517 CRT .9936 CRS -.9990 CST -.9885
 FDE 1.4834 FRA .1474 FC3-3.7516 BSP 15986 SGB 5047.2 R23 .1420 R13 .9531 LSA 3307.9 MSA 166.9 SSA 12.6
 BDE 2.0609 BRA .4980 BC3 5.0310 FSP -1060 SG1 5036.6 SG2 326.3 THA 8.25 EL1 3128.7 EL2 75.0 ALF 12.52

LAUNCH DATE FEB 7 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 478.806

RL 147.55 LAL .00 LOL 138.05 VL 27.192 GAL -.22 AZL 85.70 HCA 228.08 SMA 125.26 ECC .17800 INC 4.2982 VI 30.196
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.201 GAP 6.87 AZP 92.87 TAL 181.01 TAP 49.09 RCA 102.96 APO 147.56 V2 34.885
 RC 146.734 GL 33.29 GP -27.16 ZAL 96.09 ZAP 145.07 ETS 315.37 ZAE 127.56 ETE 202.18 ZAC 126.02 ETC 184.44 CLP-157.13

PLANETOCENTRIC CONIC

C3 13.790 VHL 3.713 DLA 46.10 RAL 24.03 RAD 6567.5 VEL 11.626 PTH 2.04 VHP 5.665 DPA -16.26 RAP 38.46 ECC 1.2269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.96 17 52 34 4168.39 -34.00 190.34 253.57 56.76 19 2 2 3568.4 -38.10 182.25
 128.04 1 45 15 2734.15 -33.99 78.81 253.56 56.74 2 30 49 2134.2 -38.09 70.73
 51.96 17 52 34 4168.39 -34.00 190.34 253.57 56.76 19 2 2 3568.4 -38.10 182.25
 128.04 1 45 15 2734.15 -33.99 78.81 253.56 56.74 2 30 49 2134.2 -38.09 70.73
 51.96 17 52 34 4168.39 -34.00 190.34 253.57 56.76 19 2 2 3568.4 -38.10 182.25
 128.04 1 45 15 2734.15 -33.99 78.81 253.56 56.74 2 30 49 2134.2 -38.09 70.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9831 TRA -.3481 TC3-5.3631 BAU .9928 SGT 5082.0 SGR 750.5 SG3 310.1 ST 3070.8 SR 654.5 SS 1049.0
 RDE .4240 RRA .0195 RC3 -.4916 FAU .06064 RRT .8973 RRF .9109 RTF .9510 CRT .9952 CRS -.9979 CST -.9878
 FDE 1.3834 FRA .2591 FC3-3.8072 BSP 16362 SGB 5137.1 R23 .1225 R13 .9520 LSA 3306.4 MSA 163.1 SSA 13.8
 BDE 2.0279 BRA .3486 BC3 5.3855 FSP -1053 SG1 5126.6 SG2 328.4 THA 7.58 EL1 3139.2 EL2 62.8 ALF 11.98

LAUNCH DATE FEB 7 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 484.683

RL 147.55 LAL .00 LOL 138.05 VL 27.154 GAL .09 AZL 85.99 HCA 231.25 SMA 125.02 ECC .18023 INC 4.0128 VI 30.196
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.184 GAP 7.15 AZP 92.51 TAL 179.57 TAP 50.83 RCA 102.49 APO 147.55 V2 34.897
 RC 148.977 GL 31.37 GP -25.37 ZAL 93.86 ZAP 147.12 ETS 315.49 ZAE 127.94 ETE 200.70 ZAC 127.82 ETC 184.05 CLP-158.35

PLANETOCENTRIC CONIC

C3 13.322 VHL 3.650 DLA 45.36 RAL 28.23 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 5.751 DPA -13.93 RAP 39.40 ECC 1.2192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.95 18 12 59 4151.49 -33.80 188.60 256.88 57.72 19 22 10 3551.5 -37.78 180.46
 127.05 1 58 22 2736.00 -33.78 78.83 256.87 57.71 2 43 58 2136.0 -37.77 70.68
 52.95 18 12 59 4151.49 -33.80 188.60 256.88 57.72 19 22 10 3551.5 -37.78 180.46
 127.05 1 58 22 2736.00 -33.78 78.83 256.87 57.71 2 43 58 2136.0 -37.77 70.68
 52.95 18 12 59 4151.49 -33.80 188.60 256.88 57.72 19 22 10 3551.5 -37.78 180.46
 127.05 1 58 22 2736.00 -33.78 78.83 256.87 57.71 2 43 58 2136.0 -37.77 70.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9590 TRA -.1832 TC3-5.6542 BAU 1.0101 SGT 5163.4 SGR 716.7 SG3 303.5 ST 3080.1 SR 634.4 SS 1017.2
 RDE .4038 RRA .0368 RC3 -.4443 FAU .05775 RRT .8794 RRF .8915 RTF .9484 CRT .9966 CRS -.9960 CST -.9866
 FDE 1.2930 FRA .3787 FC3-3.7531 BSP 16344 SGB 5212.9 R23 .1132 R13 .9493 LSA 3301.1 MSA 162.9 SSA 15.1
 BDE 2.0002 BRA .1869 BC3 5.6716 FSP -988 SG1 5201.9 SG2 338.8 THA 6.99 EL1 3144.4 EL2 51.3 ALF 11.60

LAUNCH DATE FEB 7 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 490.546

RL 147.55 LAL .00 LOL 138.05 VL 27.117 GAL .42 AZL 86.25 HCA 234.43 SMA 124.78 ECC .18264 INC 3.7516 VI 30.196
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.168 GAP 7.43 AZP 92.18 TAL 178.11 TAP 52.55 RCA 101.99 APO 147.57 V2 34.908
 RC 151.204 GL 29.49 GP -23.78 ZAL 91.45 ZAP 149.02 ETS 315.51 ZAE 128.23 ETE 199.37 ZAC 129.67 ETC 183.69 CLP-159.54

PLANETOCENTRIC CONIC

C3 12.993 VHL 3.605 DLA 44.61 RAL 32.49 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 5.853 DPA -11.76 RAP 40.49 ECC 1.2138
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.96 18 33 48 4136.13 -33.49 186.96 260.39 58.60 19 42 44 3536.1 -37.36 178.78
 126.04 2 11 32 2740.57 -33.48 79.02 260.38 58.59 2 57 13 2140.6 -37.35 70.84
 53.96 18 33 48 4136.13 -33.49 186.96 260.39 58.60 19 42 44 3536.1 -37.36 178.78
 126.04 2 11 32 2740.57 -33.48 79.02 260.38 58.59 2 57 13 2140.6 -37.35 70.84
 53.96 18 33 48 4136.13 -33.49 186.96 260.39 58.60 19 42 44 3536.1 -37.36 178.78
 126.04 2 11 32 2740.57 -33.48 79.02 260.38 58.59 2 57 13 2140.6 -37.35 70.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9202 TRA -.0193 TC3-5.9207 BAU 1.0309 SGT 5247.5 SGR 687.5 SG3 296.5 ST 3054.8 SR 612.0 SS 966.7
 RDE .3844 RRA .0485 RC3 -.4102 FAU .05553 RRT .8656 RRF .8707 RTF .9489 CRT .9980 CRS -.9932 CST -.9855
 FDE 1.1850 FRA .4731 FC3-3.6998 BSP 16787 SGB 5292.4 R23 .0915 R13 .9496 LSA 3258.1 MSA 158.9 SSA 16.3
 BDE 1.9583 BRA .0522 BC3 5.9349 FSP -989 SG1 5281.3 SG2 342.0 THA 6.50 EL1 3115.3 EL2 38.1 ALF 11.31

LAUNCH DATE FEB 7 1969

FLIGHT TIME 172.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 496.392

RL 147.55 LAL .00 LOL 138.05 VL 27.079 GAL .76 AZL 86.49 HCA 237.61 SMA 124.54 ECC .18524 INC 3.5102 VI 30.196
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.151 GAP 7.73 AZP 91.88 TAL 176.64 TAP 54.25 RCA 101.47 APO 147.61 V2 34.920
 RC 153.416 GL 27.61 GP -22.37 ZAL 88.88 ZAP 150.78 ETS 315.43 ZAE 128.45 ETE 198.19 ZAC 131.56 ETC 183.35 CLP-160.69

PLANETOCENTRIC CONIC

C3 12.793 VHL 3.577 DLA 43.83 RAL 36.79 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 5.968 DPA -9.75 RAP 41.71 ECC 1.2105
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.03 18 55 7 4121.81 -33.08 185.36 264.08 59.42 20 3 49 3521.8 -36.86 177.17
 124.97 2 24 32 2748.20 -33.07 79.42 264.07 59.41 3 10 21 2148.2 -36.85 71.22
 55.03 18 55 7 4121.81 -33.08 185.36 264.08 59.42 20 3 49 3521.8 -36.86 177.17
 124.97 2 24 32 2748.20 -33.07 79.42 264.07 59.41 3 10 21 2148.2 -36.85 71.22
 55.03 18 55 7 4121.81 -33.08 185.36 264.08 59.42 20 3 49 3521.8 -36.86 177.17
 124.97 2 24 32 2748.20 -33.07 79.42 264.07 59.41 3 10 21 2148.2 -36.85 71.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8761 TRA .1537 TC3-6.1311 BAU 1.0505 SGT 5327.7 SGR 663.9 SG3 288.6 ST 3010.0 SR 593.9 SS 915.4
 RDE .3698 RRA .0600 RC3 -.3751 FAU .05298 RRT .8490 RRF .8488 RTF .9490 CRT .9990 CRS -.9889 CST -.9839
 FDE 1.0820 FRA .5646 FC3-3.5856 BSP 17102 SGB 5368.9 R23 .0750 R13 .9495 LSA 3197.8 MSA 156.9 SSA 17.6
 BDE 1.9122 BRA .1650 BC3 6.1425 FSP -967 SG1 5357.6 SG2 348.8 THA 6.07 EL1 3068.0 EL2 26.1 ALF 11.15

LAUNCH DATE FEB 7 1969

FLIGHT TIME 174.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 502.220

RL 147.55 LAL .00 LOL 138.05 VL 27.041 GAL 1.12 AZL 86.71 HCA 240.79 SMA 124.30 ECC .18803 INC 3.2850 V1 30.196
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.135 GAP 8.02 AZP 91.60 TAL 175.16 TAP 55.95 RCA 100.93 APO 147.67 V2 34.932
 RC 155.612 GL 25.75 GP -21.10 ZAL 86.18 ZAP 152.42 ETS 315.23 ZAE 128.62 ETE 197.12 ZAC 133.48 ETC 183.02 CLP-161.82

PLANETOCENTRIC CONIC

C3 12.714 VHL 3.566 DLA 43.01 RAL 41.11 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 6.096 DPA -7.86 RAP 43.04 ECC 1.2092
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.17 19 16 55 4108.27 -32.56 183.79 267.92 60.19 20 25 23 3508.3 -36.25 175.60
 123.83 2 37 13 2759.10 -32.55 80.03 267.91 60.18 3 23 12 2159.1 -36.24 71.84
 56.17 19 16 55 4108.27 -32.56 183.79 267.92 60.19 20 25 23 3508.3 -36.25 175.60
 123.83 2 37 13 2759.10 -32.55 80.03 267.91 60.18 3 23 12 2159.1 -36.24 71.84
 56.17 19 16 55 4108.27 -32.56 183.79 267.92 60.19 20 25 23 3508.3 -36.25 175.60
 123.83 2 37 13 2759.10 -32.55 80.03 267.91 60.18 3 23 12 2159.1 -36.24 71.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8262 TRA .3364 TC3-6.2766 BAU 1.0685 SGT 5403.0 SGR 645.5 SG3 280.2 ST 2945.9 SR 578.9 SS 863.3
 RDE .3590 RRA .0712 RC3 -.3416 FAU .05032 RRT .8312 RRF .8268 RTF .9492 CRT .9994 CRS -.9826 CST -.9820
 FDE .9834 FRA .6517 FC3-3.4262 BSP 17373 SGB 5441.4 R23 .0618 R13 .9496 LSA 3119.9 MSA 156.6 SSA 18.7
 BDE 1.8612 BRA .3438 BC3 6.2859 FSP -940 SG1 5429.7 SG2 357.1 THA 5.70 EL1 3002.1 EL2 19.0 ALF 11.11

LAUNCH DATE FEB 7 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 508.030

RL 147.55 LAL .00 LOL 138.05 VL 27.003 GAL 1.49 AZL 86.93 HCA 243.97 SMA 124.06 ECC .19104 INC 3.0732 V1 30.196
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.119 GAP 8.33 AZP 91.35 TAL 173.67 TAP 57.64 RCA 100.36 APO 147.76 V2 34.945
 RC 157.792 GL 23.90 GP -19.97 ZAL 83.38 ZAP 153.95 ETS 314.91 ZAE 128.76 ETE 196.18 ZAC 135.44 ETC 182.70 CLP-162.91

PLANETOCENTRIC CONIC

C3 12.755 VHL 3.571 DLA 42.13 RAL 45.43 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 6.235 DPA -6.10 RAP 44.48 ECC 1.2099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.40 19 39 14 4095.12 -31.94 182.21 271.88 60.92 20 47 29 3495.1 -35.54 174.04
 122.60 2 49 19 2773.64 -31.92 80.90 271.87 60.91 3 35 32 2173.6 -35.53 72.72
 57.40 19 39 14 4095.12 -31.94 182.21 271.88 60.92 20 47 29 3495.1 -35.54 174.04
 122.60 2 49 19 2773.64 -31.92 80.90 271.87 60.91 3 35 32 2173.6 -35.53 72.72
 57.40 19 39 14 4095.12 -31.94 182.21 271.88 60.92 20 47 29 3495.1 -35.54 174.04
 122.60 2 49 19 2773.64 -31.92 80.90 271.87 60.91 3 35 32 2173.6 -35.53 72.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7688 TRA .5299 TC3-6.3514 BAU 1.0844 SGT 5472.5 SGR 630.5 SG3 271.3 ST 2861.6 SR 565.6 SS 809.6
 RDE .3510 RRA .0823 RC3 -.3094 FAU .04754 RRT .8127 RRF .8049 RTF .9495 CRT .9990 CRS -.9735 CST -.9797
 FDE .8874 FRA .7340 FC3-3.2266 BSP 17565 SGB 5508.7 R23 .0511 R13 .9498 LSA 3023.0 MSA 158.2 SSA 19.8
 BDE 1.8033 BRA .5363 BC3 6.3589 FSP -906 SG1 5496.5 SG2 365.8 THA 5.37 EL1 2916.8 EL2 24.6 ALF 11.17

LAUNCH DATE FEB 7 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 513.820

RL 147.55 LAL .00 LOL 138.05 VL 26.965 GAL 1.88 AZL 87.13 HCA 247.16 SMA 123.83 ECC .19428 INC 2.8725 V1 30.196
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.104 GAP 8.64 AZP 91.12 TAL 172.16 TAP 59.32 RCA 99.77 APO 147.88 V2 34.957
 RC 159.953 GL 22.07 GP -18.95 ZAL 80.49 ZAP 155.38 ETS 314.46 ZAE 128.86 ETE 195.33 ZAC 137.44 ETC 182.38 CLP-163.98

PLANETOCENTRIC CONIC

C3 12.918 VHL 3.594 DLA 41.19 RAL 49.70 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.386 DPA -4.45 RAP 46.00 ECC 1.2126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.75 20 2 2 4082.03 -31.20 180.60 275.93 61.62 21 10 4 3482.0 -34.72 172.45
 121.25 3 0 38 2792.15 -31.19 82.03 275.92 61.61 3 47 10 2192.2 -34.71 73.89
 58.75 20 2 2 4082.03 -31.20 180.60 275.93 61.62 21 10 4 3482.0 -34.72 172.45
 121.25 3 0 38 2792.15 -31.19 82.03 275.92 61.61 3 47 10 2192.2 -34.71 73.89
 58.75 20 2 2 4082.03 -31.20 180.60 275.93 61.62 21 10 4 3482.0 -34.72 172.45
 121.25 3 0 38 2792.15 -31.19 82.03 275.92 61.61 3 47 10 2192.2 -34.71 73.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6997 TRA .7318 TC3-6.3683 BAU 1.1009 SGT 5540.8 SGR 618.3 SG3 262.5 ST 2752.7 SR 552.9 SS 753.1
 RDE .3448 RRA .0934 RC3 -.2818 FAU .04494 RRT .7949 RRF .7838 RTF .9502 CRT .9973 CRS -.9605 CST -.9766
 FDE .7920 FRA .8101 FC3-3.0122 BSP 17796 SGB 5575.2 R23 .0411 R13 .9505 LSA 2902.3 MSA 162.2 SSA 20.5
 BDE 1.7343 BRA .7377 BC3 6.3746 FSP -876 SG1 5562.6 SG2 373.7 THA 5.09 EL1 2807.4 EL2 39.8 ALF 11.33

LAUNCH DATE FEB 7 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 519.587

RL 147.55 LAL .00 LOL 138.05 VL 26.927 GAL 2.29 AZL 87.32 HCA 250.35 SMA 123.59 ECC .19777 INC 2.6809 V1 30.196
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.088 GAP 8.97 AZP 90.90 TAL 170.65 TAP 61.00 RCA 99.15 APO 148.03 V2 34.970
 RC 162.097 GL 20.26 GP -18.03 ZAL 77.55 ZAP 156.72 ETS 313.87 ZAE 128.94 ETE 194.57 ZAC 139.47 ETC 182.05 CLP-165.02

PLANETOCENTRIC CONIC

C3 13.205 VHL 3.634 DLA 40.18 RAL 53.91 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 6.547 DPA -2.89 RAP 47.61 ECC 1.2173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.21 20 25 21 4068.53 -30.35 178.92 280.04 62.29 21 33 10 3468.5 -33.79 170.81
 119.79 3 10 53 2815.13 -30.34 83.47 280.03 62.28 3 57 49 2215.1 -33.78 75.37
 60.21 20 25 21 4068.53 -30.35 178.92 280.04 62.29 21 33 10 3468.5 -33.79 170.81
 119.79 3 10 53 2815.13 -30.34 83.47 280.03 62.28 3 57 49 2215.1 -33.78 75.37
 60.21 20 25 21 4068.53 -30.35 178.92 280.04 62.29 21 33 10 3468.5 -33.79 170.81
 119.79 3 10 53 2815.13 -30.34 83.47 280.03 62.28 3 57 49 2215.1 -33.78 75.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6201 TRA .9427 TC3-6.3183 BAU 1.1163 SGT 5603.2 SGR 607.8 SG3 253.2 ST 2623.9 SR 540.7 SS 696.3
 RDE .3405 RRA .1045 RC3 -.2564 FAU .04235 RRT .7771 RRF .7632 RTF .9511 CRT .9936 CRS -.9423 CST -.9727
 FDE .6989 FRA .8803 FC3-2.7769 BSP 18051 SGB 5636.1 R23 .0328 R13 .9513 LSA 2762.8 MSA 169.0 SSA 21.0
 BDE 1.6555 BRA .9485 BC3 6.3235 FSP -850 SG1 5623.2 SG2 381.2 THA 4.84 EL1 2678.4 EL2 59.7 ALF 11.58

LAUNCH DATE FEB 7 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.890 GAL 2.71 AZL 87.50 HCA 253.54 SMA 123.36 ECC .20154 INC 2.4966 V1 30.196
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.073 GAP 9.31 AZP 90.71 TAL 169.14 TAP 62.68 RCA 98.50 APO 148.22 V2 34.983
 RC 164.221 GL 18.48 GP -17.20 ZAL 74.58 ZAP 157.98 ETS 313.13 ZAE 129.00 ETE 193.89 ZAC 141.52 ETC 181.71 CLP-166.04

PLANETOCENTRIC CONIC
 C3 13.623 VHL 3.691 OLA 39.12 RAL 58.03 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 6.720 DPA -1.42 RAP 49.30 ECC 1.2242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.80 20 49 10 4054.34 -29.40 177.16 284.18 62.94 21 56 44 3454.3 -32.77 169.10
 118.20 3 19 55 2842.89 -29.39 85.24 284.18 62.93 4 7 17 2242.9 -32.76 77.19
 61.80 20 49 10 4054.34 -29.40 177.16 284.18 62.94 21 56 44 3454.3 -32.77 169.10
 118.20 3 19 55 2842.89 -29.39 85.24 284.18 62.93 4 7 17 2242.9 -32.76 77.19
 61.80 20 49 10 4054.34 -29.40 177.16 284.18 62.94 21 56 44 3454.3 -32.77 169.10
 118.20 3 19 55 2842.89 -29.39 85.24 284.18 62.93 4 7 17 2242.9 -32.76 77.19

DIFFERENTIAL CORRECTIONS
 TDE 1.5348 TRA 1.1684 TC3-6.1921 BAU 1.1286 SGT 5659.9 SGR 599.4 SG3 244.0 ST 2487.4 SR 529.8 SS 644.0
 RDE .3383 RRA .1165 RC3 -.2316 FAU .03967 RRT .7597 RRF .7443 RTF .9517 CRT .9872 CRS -.9172 CST -.9680
 FDE .6120 FRA .9494 FC3-2.5210 BSP 18193 SGB 5691.6 R23 .0275 R13 .9518 LSA 2617.2 MSA 179.8 SSA 21.1
 BDE 1.5716 BRA 1.1742 BC3 6.1965 FSP -816 SG1 5678.3 SG2 388.5 THA 4.62 EL1 2541.8 EL2 82.8 ALF 11.89

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.852 GAL 3.16 AZL 87.68 HCA 256.73 SMA 123.13 ECC .20559 INC 2.3182 V1 30.196
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.058 GAP 9.66 AZP 90.53 TAL 167.62 TAP 64.35 RCA 97.81 APO 148.44 V2 34.996
 RC 166.326 GL 16.74 GP -16.45 ZAL 71.60 ZAP 159.17 ETS 312.23 ZAE 129.05 ETE 193.28 ZAC 143.61 ETC 181.34 CLP-167.04

PLANETOCENTRIC CONIC
 C3 14.183 VHL 3.766 OLA 38.00 RAL 62.02 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 6.905 DPA -.04 RAP 51.05 ECC 1.2334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.53 21 13 29 4039.01 -28.35 175.29 288.34 63.57 22 20 48 3439.0 -31.66 167.28
 116.47 3 27 27 2875.89 -28.34 87.38 288.34 63.56 4 15 23 2275.9 -31.65 79.38
 63.53 21 13 29 4039.01 -28.35 175.29 288.34 63.57 22 20 48 3439.0 -31.66 167.28
 116.47 3 27 27 2875.89 -28.34 87.38 288.34 63.56 4 15 23 2275.9 -31.65 79.38
 63.53 21 13 29 4039.01 -28.35 175.29 288.34 63.57 22 20 48 3439.0 -31.66 167.28
 116.47 3 27 27 2875.89 -28.34 87.38 288.34 63.56 4 15 23 2275.9 -31.65 79.38

DIFFERENTIAL CORRECTIONS
 TDE 1.4367 TRA 1.4014 TC3-6.0184 BAU 1.1418 SGT 5713.7 SGR 591.5 SG3 234.8 ST 2335.7 SR 518.2 SS 592.6
 RDE .3370 RRA .1287 RC3 -.2107 FAU .03721 RRT .7434 RRF .7262 RTF .9526 CRT .9766 CRS -.8826 CST -.9621
 FDE .5261 FRA 1.0120 FC3-2.2714 BSP 18425 SGB 5744.3 R23 .0219 R13 .9527 LSA 2457.0 MSA 194.5 SSA 20.9
 BDE 1.4737 BRA 1.4073 BC3 6.0221 FSP -790 SG1 5730.7 SG2 394.4 THA 4.42 EL1 2390.0 EL2 108.9 ALF 12.25

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.814 GAL 3.63 AZL 87.86 HCA 259.93 SMA 122.90 ECC .20996 INC 2.1442 V1 30.196
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.044 GAP 10.02 AZP 90.37 TAL 166.10 TAP 66.03 RCA 97.09 APO 148.70 V2 35.010
 RC 168.410 GL 15.04 GP -15.77 ZAL 68.65 ZAP 160.29 ETS 311.15 ZAE 129.09 ETE 192.74 ZAC 145.71 ETC 180.94 CLP-168.02

PLANETOCENTRIC CONIC
 C3 14.895 VHL 3.859 OLA 36.84 RAL 65.87 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 7.102 DPA 1.27 RAP 52.86 ECC 1.2451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.39 21 38 25 4021.90 -27.23 173.27 292.50 64.17 22 45 26 3421.9 -30.46 165.33
 114.61 3 33 15 2914.74 -27.22 89.92 292.49 64.16 4 21 49 2314.7 -30.45 81.98
 65.39 21 38 25 4021.90 -27.23 173.27 292.50 64.17 22 45 26 3421.9 -30.46 165.33
 114.61 3 33 15 2914.74 -27.22 89.92 292.49 64.16 4 21 49 2314.7 -30.45 81.98
 65.39 21 38 25 4021.90 -27.23 173.27 292.50 64.17 22 45 26 3421.9 -30.46 165.33
 114.61 3 33 15 2914.74 -27.22 89.92 292.49 64.16 4 21 49 2314.7 -30.45 81.98

DIFFERENTIAL CORRECTIONS
 TDE 1.3303 TRA 1.6466 TC3-5.7902 BAU 1.1536 SGT 5762.3 SGR 584.1 SG3 225.7 ST 2181.3 SR 506.7 SS 546.5
 RDE .3371 RRA .1415 RC3 -.1915 FAU .03480 RRT .7280 RRF .7095 RTF .9535 CRT .9602 CRS -.8365 CST -.9554
 FDE .4446 FRA 1.0715 FC3-2.0228 BSP 18634 SGB 5791.8 R23 .0175 R13 .9536 LSA 2295.1 MSA 213.5 SSA 20.4
 BDE 1.3724 BRA 1.6527 BC3 5.7933 FSP -763 SG1 5778.1 SG2 399.4 THA 4.24 EL1 2235.1 EL2 138.2 ALF 12.62

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.777 GAL 4.12 AZL 88.03 HCA 263.13 SMA 122.67 ECC .21468 INC 1.9736 V1 30.196
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.029 GAP 10.41 AZP 90.24 TAL 164.58 TAP 67.71 RCA 96.33 APO 149.00 V2 35.023
 RC 170.474 GL 13.39 GP -15.15 ZAL 65.73 ZAP 161.35 ETS 309.89 ZAE 129.12 ETE 192.24 ZAC 147.84 ETC 180.50 CLP-168.99

PLANETOCENTRIC CONIC
 C3 15.775 VHL 3.972 OLA 35.64 RAL 69.56 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 7.311 DPA 2.51 RAP 54.74 ECC 1.2596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.40 22 4 1 4002.49 -26.03 171.07 296.64 64.75 23 10 43 3402.5 -29.20 163.20
 112.60 3 37 5 2960.00 -26.02 92.91 296.63 64.74 4 26 25 2360.0 -29.19 85.04
 67.40 22 4 1 4002.49 -26.03 171.07 296.64 64.75 23 10 43 3402.5 -29.20 163.20
 112.60 3 37 5 2960.00 -26.02 92.91 296.63 64.74 4 26 25 2360.0 -29.19 85.04
 67.40 22 4 1 4002.49 -26.03 171.07 296.64 64.75 23 10 43 3402.5 -29.20 163.20
 112.60 3 37 5 2960.00 -26.02 92.91 296.63 64.74 4 26 25 2360.0 -29.19 85.04

DIFFERENTIAL CORRECTIONS
 TDE 1.2174 TRA 1.9053 TC3-5.5144 BAU 1.1636 SGT 5806.0 SGR 577.2 SG3 216.8 ST 2032.4 SR 495.3 SS 507.6
 RDE .3385 RRA .1551 RC3 -.1734 FAU .03243 RRT .7137 RRF .6944 RTF .9543 CRT .9357 CRS -.7772 CST -.9484
 FDE .3684 FRA 1.1291 FC3-1.7799 BSP 18816 SGB 5834.6 R23 .0143 R13 .9544 LSA 2139.5 MSA 236.7 SSA 19.7
 BDE 1.2636 BRA 1.9116 BC3 5.5171 FSP -737 SG1 5820.7 SG2 403.3 THA 4.08 EL1 2085.0 EL2 170.3 ALF 12.93

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 7 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 548.009

RL 147.55 LAL .00 LOL 138.05 VL 26.740 GAL 4.64 AZL 88.19 HCA 266.33 SMA 122.44 ECC .21978 INC 1.8051 V1 30.196
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.015 GAP 10.81 AZP 90.12 TAL 163.06 TAP 69.39 RCA 95.53 APO 149.35 V2 35.036
 RC 172.518 GL 11.80 GP -14.59 ZAL 62.88 ZAP 162.34 ETS 308.41 ZAE 129.14 ETE 191.80 ZAC 149.98 ETC 180.00 CLP-169.94

PLANETOCENTRIC CONIC

C3 16.842 VHL 4.104 DLA 34.42 RAL 73.08 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 7.535 DPA 3.67 RAP 56.66 ECC 1.2772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.57 22 30 31 3979.82 -24.77 168.63 300.75 65.31 23 36 51 3379.8 -27.89 160.82
 110.43 3 38 39 3012.53 -24.76 96.41 300.75 65.29 4 28 51 2412.5 -27.88 88.60
 69.57 22 30 31 3979.82 -24.77 168.63 300.75 65.31 23 36 51 3379.8 -27.89 160.82
 110.43 3 38 39 3012.53 -24.76 96.41 300.75 65.29 4 28 51 2412.5 -27.88 88.60
 69.57 22 30 31 3979.82 -24.77 168.63 300.75 65.31 23 36 51 3379.8 -27.89 160.82
 110.43 3 38 39 3012.53 -24.76 96.41 300.75 65.29 4 28 51 2412.5 -27.88 88.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1012 TRA 2.1807 TC3-5.1947 BAU 1.1702 SGT 5844.9 SGR 570.9 SG3 208.3 ST 1898.9 SR 484.2 SS 477.6
 ROE .3413 RRA .1697 RC3 -.1560 FAU .03005 RRT .7008 RRF .6814 RTF .9550 CRT .9010 CRS -.7060 CST -.9425
 FDE .2988 FRA 1.1862 FC3-1.5446 BSP 18905 SGB 5872.8 R23 .0124 R13 .9550 LSA 1993.7 MSA 262.8 SSA 18.9
 BOE 1.1528 BRA 2.1873 BC3 5.1971 FSP -706 SG1 5858.7 SG2 406.3 THA 3.93 EL1 1948.9 EL2 204.7 ALF 13.09

LAUNCH DATE FEB 7 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 553.586

RL 147.55 LAL .00 LOL 138.05 VL 26.703 GAL 5.18 AZL 88.36 HCA 269.53 SMA 122.22 ECC .22529 INC 1.6377 V1 30.196
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.001 GAP 11.23 AZP 90.01 TAL 161.55 TAP 71.08 RCA 94.69 APO 149.76 V2 35.050
 RC 174.540 GL 10.29 GP -14.08 ZAL 60.11 ZAP 163.28 ETS 306.71 ZAE 129.16 ETE 191.40 ZAC 152.14 ETC 179.43 CLP-170.89

PLANETOCENTRIC CONIC

C3 18.118 VHL 4.257 DLA 33.19 RAL 76.42 RAD 6567.7 VEL 11.811 PTH 2.09 VHP 7.773 DPA 4.77 RAP 58.63 ECC 1.2982
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.92 22 58 14 3952.63 -23.47 165.87 304.83 65.84 24 4 7 3352.6 -26.53 158.13
 108.08 3 37 33 3073.56 -23.46 100.51 304.82 65.83 4 28 46 2473.6 -26.52 92.77
 71.92 22 58 14 3952.63 -23.47 165.87 304.83 65.84 24 4 7 3352.6 -26.53 158.13
 108.08 3 37 33 3073.56 -23.46 100.51 304.82 65.83 4 28 46 2473.6 -26.52 92.77
 110.00 4 51 47 2845.71 -29.02 85.29 307.27 71.09 5 39 13 2245.7 -31.32 76.84
 110.00 2 47 6 3228.48 -18.14 109.63 301.94 60.52 3 40 55 2628.5 -21.93 102.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9746 TRA 2.4666 TC3-4.8587 BAU 1.1774 SGT 5879.5 SGR 563.7 SG3 200.0 ST 1775.7 SR 472.2 SS 453.3
 ROE .3445 RRA .1847 RC3 -.1408 FAU .02787 RRT .6889 RRF .6689 RTF .9558 CRT .8526 CRS -.6202 CST -.9379
 FDE .2311 FRA 1.2395 FC3-1.3316 BSP 19079 SGB 5906.5 R23 .0099 R13 .9559 LSA 1869.9 MSA 291.5 SSA 18.1
 BOE 1.0337 BRA 2.4735 BC3 4.8607 FSP -682 SG1 5892.4 SG2 407.7 THA 3.80 EL1 1821.6 EL2 240.6 ALF 13.01

LAUNCH DATE FEB 7 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 559.115

RL 147.55 LAL .00 LOL 138.05 VL 26.666 GAL 5.76 AZL 88.53 HCA 272.74 SMA 122.00 ECC .23126 INC 1.4703 V1 30.196
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.987 GAP 11.68 AZP 89.93 TAL 160.05 TAP 72.79 RCA 93.79 APO 150.22 V2 35.063
 RC 176.542 GL 8.84 GP -13.61 ZAL 57.43 ZAP 164.16 ETS 304.75 ZAE 129.16 ETE 191.03 ZAC 154.31 ETC 178.76 CLP-171.82

PLANETOCENTRIC CONIC

C3 19.629 VHL 4.431 DLA 31.96 RAL 79.57 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 8.028 DPA 5.81 RAP 60.65 ECC 1.3231
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.53 23 27 50 3918.65 -22.15 162.63 308.87 66.35 24 33 9 3318.6 -25.15 154.95
 105.47 3 33 6 3145.27 -22.13 105.36 308.86 66.34 4 25 31 2545.3 -25.14 97.68
 74.53 23 27 50 3918.65 -22.15 162.63 308.87 66.35 24 33 9 3318.6 -25.15 154.95
 105.47 3 33 6 3145.27 -22.13 105.36 308.86 66.34 4 25 31 2545.3 -25.14 97.68
 110.00 5 34 53 2768.16 -30.61 79.81 312.27 73.98 6 21 1 2168.2 -32.50 71.10
 110.00 2 29 9 3343.75 -14.16 116.19 304.49 58.56 3 24 53 2743.8 -18.22 109.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8432 TRA 2.7678 TC3-4.5039 BAU 1.1824 SGT 5908.9 SGR 556.1 SG3 192.0 ST 1674.9 SR 460.2 SS 437.2
 ROE .3487 RRA .2005 RC3 -.1265 FAU .02575 RRT .6781 RRF .6577 RTF .9567 CRT .7890 CRS -.5257 CST -.9366
 FDE .1684 FRA 1.2917 FC3-1.1357 BSP 19233 SGB 5935.0 R23 .0080 R13 .9567 LSA 1762.2 MSA 320.2 SSA 17.3
 BOE .9124 BRA 2.7750 BC3 4.5057 FSP -658 SG1 5920.9 SG2 407.9 THA 3.67 EL1 1714.8 EL2 276.1 ALF 12.56

LAUNCH DATE FEB 7 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 564.591

RL 147.55 LAL .00 LOL 138.05 VL 26.630 GAL 6.37 AZL 88.70 HCA 275.95 SMA 121.78 ECC .23774 INC 1.3018 V1 30.196
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.973 GAP 12.16 AZP 89.86 TAL 158.56 TAP 74.51 RCA 92.83 APO 150.74 V2 35.076
 RC 178.523 GL 7.47 GP -13.18 ZAL 54.86 ZAP 164.99 ETS 302.51 ZAE 129.16 ETE 190.70 ZAC 156.49 ETC 177.97 CLP-172.75

PLANETOCENTRIC CONIC

C3 21.409 VHL 4.627 DLA 30.74 RAL 82.54 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 8.301 DPA 6.78 RAP 62.70 ECC 1.3523
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.50 0 4 25 3873.92 -20.80 158.63 312.86 66.84 1 8 59 3273.9 -23.76 151.01
 102.50 3 24 7 3231.48 -20.79 111.24 312.85 66.83 4 17 59 2631.5 -23.74 103.63
 77.50 0 4 25 3873.92 -20.80 158.63 312.86 66.84 1 8 59 3273.9 -23.76 151.01
 102.50 3 24 7 3231.48 -20.79 111.24 312.85 66.83 4 17 59 2631.5 -23.74 103.63
 110.00 6 9 1 2716.59 -31.52 76.07 316.86 76.02 6 54 17 2116.6 -33.11 67.21
 110.00 2 18 42 3436.81 -10.79 121.30 307.37 57.37 3 15 59 2836.8 -15.02 114.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7074 TRA 3.0863 TC3-4.1386 BAU 1.1850 SGT 5933.7 SGR 548.1 SG3 184.3 ST 1600.0 SR 447.9 SS 428.3
 ROE .3537 RRA .2169 RC3 -.1130 FAU .02369 RRT .6684 RRF .6478 RTF .9576 CRT .7103 CRS -.4276 CST -.9392
 FDE .1103 FRA 1.3435 FC3 -.9580 BSP 19366 SGB 5958.9 R23 .0063 R13 .9576 LSA 1680.4 MSA 346.5 SSA 16.5
 BOE .7909 BRA 3.0939 BC3 4.1402 FSP -634 SG1 5945.0 SG2 406.9 THA 3.55 EL1 1632.5 EL2 309.0 ALF 11.67

LAUNCH DATE FEB 7 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.594 GAL 7.02 AZL 88.87 MCA 279.16 SMA 121.57 ECC .24477 INC 1.1313 V1 30.196
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.960 GAP 12.66 AZP 89.82 TAL 157.08 TAP 76.24 RCA 91.81 APO 151.33 V2 35.089
 RC 180.483 GL 6.17 GP -12.79 ZAL 52.40 ZAP 165.76 ETS 299.97 ZAE 129.15 ETE 190.40 ZAC 158.66 ETC 177.02 CLP-173.68

PLANETOCENTRIC CONIC
 C3 23.495 VHL 4.847 DLA 29.55 RAL 85.32 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 8.594 DPA 7.69 RAP 64.79 ECC 1.3867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.18 0 43 14 3808.26 -19.45 153.13 316.81 67.31 1 46 42 3208.3 -22.36 145.56
 98.82 3 7 32 3342.26 -19.44 118.89 316.81 67.29 4 3 14 2742.3 -22.34 111.33
 100.00 3 54 46 3191.15 -22.70 109.05 318.17 70.01 4 47 57 2591.1 -25.21 101.15
 100.00 2 38 41 3434.61 -16.25 124.24 315.31 64.56 3 35 55 2834.6 -19.54 117.00
 110.00 6 38 16 2678.79 -32.10 73.28 321.25 77.58 7 22 55 2078.8 -33.48 64.32
 110.00 2 11 40 3519.73 -7.72 125.75 310.40 56.60 3 10 20 2919.7 -12.06 119.34

DIFFERENTIAL CORRECTIONS
 TOE .5702 TRA 3.4258 TC3-3.7658 BAU 1.1833 SGT 5954.0 SGR 539.7 SG3 177.1 ORBIT DETERMINATION ACCURACY
 RDE .3596 RRA .2342 RC3 -.0997 FAU .02162 RRT .6599 RRF .6396 RTF .9585 ST 1554.5 SR 435.7 SS 426.1
 FDE .0580 FRA 1.3966 FC3 -.7968 BSP 19398 SGB 5978.4 R23 .0055 R13 .9586 CRT .6204 CRS -.3342 CST -.9458
 BOE .6742 BRA 3.4338 BC3 3.7671 FSP -607 SG1 5964.7 SG2 404.8 THA 3.44 LSA 1628.7 MSA 367.6 SSA 15.7
 EL1 1579.0 EL2 336.4 ALF 10.34

LAUNCH DATE FEB 7 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.558 GAL 7.70 AZL 89.04 MCA 282.37 SMA 121.36 ECC .25242 INC .9575 V1 30.196
 RP 107.96 LAP -.94 LOP 60.42 VP 36.946 GAP 13.20 AZP 89.79 TAL 155.63 TAP 78.00 RCA 90.72 APO 151.99 V2 35.102
 RC 182.422 GL 4.95 GP -12.43 ZAL 50.06 ZAP 166.46 ETS 297.09 ZAE 129.13 ETE 190.12 ZAC 160.84 ETC 175.84 CLP-174.61

PLANETOCENTRIC CONIC
 C3 25.935 VHL 5.093 DLA 28.38 RAL 87.93 RAD 6568.0 VEL 12.137 PTH 2.18 VHP 8.910 DPA 8.54 RAP 66.91 ECC 1.4268
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.95 1 48 40 3655.02 -18.10 141.27 320.72 67.76 2 49 35 3055.0 -20.96 133.76
 92.05 2 22 53 3544.09 -18.09 133.15 320.71 67.75 3 21 58 2944.1 -20.95 125.64
 100.00 4 46 42 3080.59 -25.08 101.70 323.38 73.18 5 38 2 2480.6 -27.14 93.51
 100.00 2 7 33 3593.75 -11.38 133.55 317.48 62.17 3 7 26 2993.7 -15.02 126.65
 110.00 7 4 6 2650.48 -32.50 71.16 325.49 78.77 7 48 17 2050.5 -33.71 62.14
 110.00 2 6 38 3596.63 -4.81 129.81 313.52 56.12 3 6 34 2996.6 -9.23 123.50

DIFFERENTIAL CORRECTIONS
 TOE .4245 TRA 3.7804 TC3-3.4052 BAU 1.1811 SGT 5969.0 SGR 530.1 SG3 170.2 ORBIT DETERMINATION ACCURACY
 RDE .3659 RRA .2516 RC3 -.0878 FAU .01973 RRT .6518 RRF .6315 RTF .9597 ST 1530.5 SR 422.8 SS 428.0
 FDE .0075 FRA 1.4480 FC3 -.6585 BSP 19521 SGB 5992.5 R23 .0041 R13 .9597 CRT .5206 CRS -.2431 CST -.9541
 BOE .5604 BRA 3.7887 BC3 3.4063 FSP -586 SG1 5979.0 SG2 401.3 THA 3.33 LSA 1599.3 MSA 382.4 SSA 15.0
 EL1 1547.1 EL2 357.1 ALF 8.65

LAUNCH DATE FEB 7 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.523 GAL 8.44 AZL 89.22 MCA 285.59 SMA 121.15 ECC .26076 INC .7792 V1 30.196
 RP 107.92 LAP -.75 LOP 63.64 VP 36.932 GAP 13.78 AZP 89.79 TAL 154.20 TAP 79.79 RCA 89.56 APO 152.74 V2 35.114
 RC 184.340 GL 3.81 GP -12.11 ZAL 47.84 ZAP 167.11 ETS 293.84 ZAE 129.10 ETE 189.86 ZAC 163.00 ETC 174.35 CLP-175.54

PLANETOCENTRIC CONIC
 C3 28.785 VHL 5.365 DLA 27.26 RAL 90.36 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 9.251 DPA 9.34 RAP 69.05 ECC 1.4737
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 23 27 3403.73 -22.60 124.64 326.80 72.48 4 20 10 2803.7 -24.79 116.65
 90.00 1 7 31 3847.24 -11.09 152.04 321.98 63.78 2 11 39 3247.2 -14.53 145.05
 100.00 5 21 53 3021.91 -26.17 97.68 327.94 75.02 6 12 15 2421.9 -27.97 89.34
 100.00 1 51 46 3704.29 -7.80 139.80 320.24 61.05 2 53 30 3104.3 -11.60 133.08
 110.00 7 27 17 2629.51 -32.77 69.59 329.64 79.67 8 11 6 2029.5 -33.84 60.52
 110.00 2 2 51 3669.46 -2.04 133.62 316.69 55.87 3 4 1 3069.5 -6.50 127.38

DIFFERENTIAL CORRECTIONS
 TOE .2746 TRA 4.1562 TC3-3.0536 BAU 1.1755 SGT 5979.2 SGR 519.5 SG3 163.5 ORBIT DETERMINATION ACCURACY
 RDE .3727 RRA .2694 RC3 -.0765 FAU .01788 RRT .6443 RRF .6243 RTF .9611 ST 1529.5 SR 409.7 SS 433.6
 FDE -.0393 FRA 1.5002 FC3 -.5379 BSP 19627 SGB 6001.8 R23 .0030 R13 .9611 CRT .4187 CRS -.1612 CST -.9631
 BOE .4630 BRA 4.1649 BC3 3.0546 FSP -565 SG1 5988.6 SG2 396.7 THA 3.22 LSA 1594.8 MSA 389.5 SSA 14.4
 EL1 1539.6 EL2 369.6 ALF 6.79

LAUNCH DATE FEB 7 1969

FLIGHT TIME 204.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC
 RL 147.55 LAL .00 LOL 138.05 VL 26.488 GAL 9.22 AZL 89.40 MCA 288.81 SMA 120.95 ECC .26987 INC .5952 V1 30.196
 RP 107.88 LAP -.56 LOP 66.85 VP 36.919 GAP 14.40 AZP 89.81 TAL 152.79 TAP 81.60 RCA 88.31 APO 153.58 V2 35.126
 RC 186.236 GL 2.75 GP -11.81 ZAL 45.75 ZAP 167.69 ETS 290.19 ZAE 129.05 ETE 189.62 ZAC 165.15 ETC 172.43 CLP-176.48

PLANETOCENTRIC CONIC
 C3 32.115 VHL 5.667 DLA 26.17 RAL 92.62 RAD 6568.3 VEL 12.389 PTH 2.24 VHP 9.620 DPA 10.08 RAP 71.21 ECC 1.5285
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 8 3335.61 -23.93 120.08 331.41 74.39 4 56 44 2735.6 -25.84 111.94
 90.00 0 47 54 3970.28 -7.31 159.10 324.63 62.57 1 54 5 3370.3 -10.93 152.29
 100.00 5 50 33 2982.85 -26.83 94.97 332.25 76.30 6 40 16 2382.8 -28.45 86.54
 100.00 1 41 10 3798.28 -4.67 145.02 323.19 60.44 2 44 28 3198.3 -8.57 138.41
 110.00 7 48 15 2614.62 -32.94 68.46 333.71 80.31 8 31 49 2014.6 -33.93 59.36
 110.00 1 59 58 3739.27 .63 137.26 319.90 55.82 3 2 17 3139.3 -3.86 131.05

DIFFERENTIAL CORRECTIONS
 TOE .1207 TRA 4.5556 TC3-2.7151 BAU 1.1660 SGT 5985.1 SGR 508.0 SG3 157.3 ORBIT DETERMINATION ACCURACY
 RDE .3802 RRA .2874 RC3 -.0659 FAU .01609 RRT .6374 RRF .6177 RTF .9626 ST 1547.2 SR 396.4 SS 442.2
 FDE -.0827 FRA 1.5539 FC3 -.4338 BSP 19706 SGB 6006.6 R23 .0021 R13 .9626 CRT .3206 CRS -.0895 CST -.9716
 BOE .3989 BRA 4.5646 BC3 2.7159 FSP -544 SG1 5993.9 SG2 390.9 THA 3.11 LSA 1610.7 MSA 389.6 SSA 13.8
 EL1 1552.7 EL2 374.2 ALF 4.99

LAUNCH DATE FEB 7 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 590.816

RL 147.55 LAL .00 LOL 138.05 VL 26.453 GAL 10.06 AZL 89.60 MCA 292.03 SMA 120.74 ECC .27984 INC .4037 V1 30.196
 RP 107.85 LAP -.37 LOP 70.07 VP 36.906 GAP 15.08 AZP 89.85 TAL 151.43 TAP 83.45 RCA 86.95 APO 154.53 V2 35.138
 RC 188.109 GL 1.75 GP -11.53 ZAL 43.79 ZAP 168.19 ETS 286.13 ZAE 128.98 ETE 189.39 ZAC 167.27 ETC 169.86 CLP-177.43

PLANETOCENTRIC CONIC

C3 36.008 VML 6.001 CLA 25.13 RAL 94.73 RAD 6568.4 VEL 12.545 PTH 2.27 VMP 10.021 DPA 10.76 RAP 73.39 ECC 1.5926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 34 3293.00 -24.68 117.19 335.71 75.65 5 25 27 2693.0 -26.41 108.95
 90.00 0 35 16 4070.64 -4.13 164.75 327.54 61.96 1 43 6 3470.6 -7.85 158.05
 100.00 6 15 10 2955.73 -27.25 93.06 336.40 77.22 7 4 26 2355.7 -28.74 84.58
 100.00 1 33 20 3883.14 -1.81 149.70 326.26 60.16 2 38 3 3283.1 -5.76 143.14
 110.00 8 7 18 2604.93 -33.05 67.73 337.71 80.74 8 50 43 2004.9 -33.98 58.61
 110.00 1 57 42 3806.70 3.21 140.78 323.13 55.95 3 1 9 3206.7 -1.29 134.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0381 TRA 4.9804 TC3-2.3927 BAU 1.1522 SGT 5986.2 SGR 495.5 SG3 151.3 ST 1578.5 SR 382.9 SS 452.7
 RDE .3881 RRA .3054 RC3 -.0559 FAU .01435 RRT .6307 RRF .6117 RTF .9643 CRT .2298 CRS -.0280 CST -.9788
 FDE -.1233 FRA 1.6096 FC3 -.3450 BSP 19773 SGB 6006.7 R23 .0014 R13 .9643 LSA 1641.9 MSA 383.8 SSA 13.2
 BDE .3899 BRA 4.9897 BC3 2.3934 FSP -524 SG1 5994.4 SG2 384.0 THA 3.00 EL1 1581.1 EL2 372.1 ALF 3.38

LAUNCH DATE FEB 7 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 595.728

RL 147.55 LAL .00 LOL 138.05 VL 26.419 GAL 10.97 AZL 89.80 MCA 295.25 SMA 120.55 ECC .29080 INC .2033 V1 30.196
 RP 107.81 LAP -.18 LOP 73.29 VP 36.892 GAP 15.81 AZP 89.91 TAL 150.10 TAP 85.35 RCA 85.49 APO 155.60 V2 35.150
 RC 189.959 GL .83 GP -11.27 ZAL 41.96 ZAP 168.61 ETS 281.65 ZAE 128.89 ETE 189.18 ZAC 169.35 ETC 166.27 CLP-178.39

PLANETOCENTRIC CONIC

C3 40.570 VML 6.369 CLA 24.13 RAL 96.68 RAD 6568.6 VEL 12.725 PTH 2.31 VMP 10.458 DPA 11.38 RAP 75.58 ECC 1.6677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 21 3264.34 -25.15 115.22 339.84 76.53 5 49 45 2664.3 -26.75 106.92
 90.00 0 26 1 4159.57 -1.27 169.73 330.57 61.71 1 35 21 3559.6 -5.04 163.08
 100.00 6 36 49 2937.18 -27.53 91.75 340.44 77.86 7 25 46 2337.2 -28.92 83.23
 100.00 1 27 14 3961.97 .87 154.02 329.38 60.12 2 33 16 3362.0 -3.12 147.50
 110.00 8 24 40 2599.78 -33.11 67.33 341.65 80.96 9 8 0 1999.8 -34.00 58.21
 110.00 1 55 53 3872.13 5.69 144.22 326.38 56.24 3 0 25 3272.1 1.22 137.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1991 TRA 5.4384 TC3-2.0859 BAU 1.1317 SGT 5983.9 SGR 482.0 SG3 145.7 ST 1619.5 SR 369.4 SS 464.7
 RDE .3967 RRA .3233 RC3 -.0464 FAU .01260 RRT .6243 RRF .6064 RTF .9662 CRT .1503 CRS .0225 CST -.9846
 FDE -.1603 FRA 1.6689 FC3 -.2689 BSP 19754 SGB 6003.2 R23 .0010 R13 .9662 LSA 1683.8 MSA 373.8 SSA 12.7
 BDE .4438 BRA 5.4460 BC3 2.0865 FSP -502 SG1 5991.5 SG2 376.1 THA 2.89 EL1 1620.5 EL2 365.0 ALF 2.07

LAUNCH DATE FEB 7 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 600.477

RL 147.55 LAL .00 LOL 138.05 VL 26.386 GAL 11.95 AZL 90.01 MCA 298.47 SMA 120.35 ECC .30286 INC .0000 V1 30.196
 RP 107.78 LAP .01 LOP 76.52 VP 36.879 GAP 16.61 AZP 90.00 TAL 148.83 TAP 87.30 RCA 83.90 APO 156.81 V2 35.161
 RC 191.786 GL -.03 GP -11.04 ZAL 40.26 ZAP 168.94 ETS 276.74 ZAE 128.78 ETE 188.97 ZAC 171.34 ETC 161.02 CLP-179.37

PLANETOCENTRIC CONIC

C3 45.930 VML 6.777 CLA 23.18 RAL 98.47 RAD 6568.7 VEL 12.934 PTH 2.36 VMP 10.938 DPA 11.95 RAP 77.76 ECC 1.7559
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 53 3245.18 -25.44 113.89 343.83 77.13 6 10 58 2645.2 -26.96 105.56
 90.00 0 18 49 4241.24 1.37 174.28 333.66 61.71 1 29 30 3641.2 -2.42 167.65
 100.00 6 56 5 2925.31 -27.69 90.91 344.38 78.27 7 44 51 2325.3 -29.03 82.36
 100.00 1 22 18 4036.34 3.38 158.11 332.54 60.28 2 29 34 3436.3 -.60 151.58
 110.00 8 40 30 2598.63 -33.12 67.25 345.53 81.01 9 23 49 1998.6 -34.01 58.12
 110.00 1 54 22 3935.78 8.09 147.59 329.64 56.67 2 59 58 3335.8 3.65 141.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3693 TRA 5.9201 TC3-1.8024 BAU 1.1070 SGT 5975.8 SGR 467.1 SG3 140.3 ST 1664.6 SR 355.4 SS 477.8
 RDE .4054 RRA .3404 RC3 -.0379 FAU .01094 RRT .6174 RRF .6006 RTF .9684 CRT .0786 CRS .0676 CST -.9889
 FDE -.1967 FRA 1.7302 FC3 -.2063 BSP 19807 SGB 5994.0 R23 .0006 R13 .9684 LSA 1730.6 MSA 360.8 SSA 12.1
 BDE .5484 BRA 5.9298 BC3 1.8028 FSP -484 SG1 5982.8 SG2 367.0 THA 2.77 EL1 1664.8 EL2 354.3 ALF 1.01

LAUNCH DATE FEB 7 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 605.031

RL 147.55 LAL .00 LOL 138.05 VL 26.353 GAL 13.01 AZL 90.23 MCA 301.70 SMA 120.17 ECC .31618 INC .2326 V1 30.196
 RP 107.75 LAP .20 LOP 79.74 VP 36.866 GAP 17.48 AZP 90.12 TAL 147.62 TAP 89.31 RCA 82.17 APO 158.16 V2 35.172
 RC 193.588 GL -.83 GP -10.83 ZAL 38.69 ZAP 169.17 ETS 271.44 ZAE 128.63 ETE 188.77 ZAC 173.21 ETC 152.81 CLP 179.62

PLANETOCENTRIC CONIC

C3 52.249 VML 7.228 CLA 22.29 RAL 100.12 RAD 6568.9 VEL 13.176 PTH 2.41 VMP 11.465 DPA 12.46 RAP 79.95 ECC 1.8599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 53 3233.16 -25.62 113.06 347.71 77.52 6 29 46 2633.2 -27.09 104.70
 90.00 0 12 58 4317.63 3.83 178.55 336.78 61.92 1 24 56 3717.6 .04 171.91
 100.00 7 15 22 2918.87 -27.78 90.45 348.22 78.50 8 2 0 2318.9 -29.09 81.89
 100.00 1 18 11 4107.16 5.76 162.02 335.72 60.62 2 26 38 3507.2 1.80 155.47
 110.00 8 54 57 2601.03 -33.09 67.43 349.34 80.91 9 38 18 2001.0 -34.00 58.31
 110.00 1 53 5 3997.76 10.39 150.91 332.90 57.25 2 59 42 3397.8 6.00 144.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5467 TRA 6.4392 TC3-1.5389 BAU 1.0751 SGT 5963.6 SGR 450.9 SG3 135.2 ST 1712.0 SR 341.3 SS 491.9
 RDE .4147 RRA .3567 RC3 -.0301 FAU .00929 RRT .6099 RRF .5944 RTF .9707 CRT .0160 CRS .1059 CST -.9922
 FDE -.2313 FRA 1.7958 FC3 -.1540 BSP 19847 SGB 5980.7 R23 .0004 R13 .9707 LSA 1780.3 MSA 346.1 SSA 11.6
 BDE .6862 BRA 6.4491 BC3 1.5392 FSP -466 SG1 5970.0 SG2 357.0 THA 2.65 EL1 1712.0 EL2 341.2 ALF .19

LAUNCH DATE FEB 7 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 609.348
 RL 147.55 LAL .00 LOL 138.05 VL 26.321 GAL 14.17 AZL 90.47 MCA 304.92 SMA 119.98 ECC .33094 INC .4742 V1 30.196
 RP 107.71 LAP .39 LOP 82.97 VP 36.853 GAP 18.45 AZP 90.27 TAL 146.48 TAP 91.40 RCA 80.28 APO 159.69 V2 35.182
 RC 195.366 GL -1.57 GP -10.63 ZAL 37.26 ZAP 169.28 ETS 265.80 ZAE 128.45 ETE 188.58 ZAC 174.81 ETC 139.17 CLP 178.58

PLANETOCENTRIC CONIC

C3 59.734 VHL 7.729 DLA 21.44 RAL 101.63 RAD 6569.1 VEL 13.457 PTH 2.46 VHP 12.047 DPA 12.93 RAP 82.11 ECC 1.9831
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 52 47 3226.82 -25.72 112.62 351.48 77.72 6 46 34 2626.8 -27.15 104.24
 90.00 0 8 4 4389.83 6.13 182.61 339.91 62.30 1 21 14 3789.8 2.37 175.94
 100.00 7 28 53 2916.97 -27.81 90.32 351.97 78.57 8 17 30 2317.0 -29.10 81.75
 100.00 1 14 40 4174.92 8.01 165.79 338.89 61.10 2 24 14 3574.9 4.09 159.19
 110.00 9 8 6 2606.54 -33.03 67.85 353.08 80.66 9 51 33 2006.5 -33.97 58.73
 110.00 1 51 56 4058.11 12.59 154.20 336.15 57.95 2 59 34 3458.1 8.27 147.77

DIFFERENTIAL CORRECTIONS

TDE -.7294 TRA 6.9984 TC3 -1.2956 BAU 1.0348
 RDE .4245 RRA .3718 RC3 -.0230 FAU .00763
 FDE -.2644 FRA 1.8666 FC3 -.1106 BSP 19857
 BOE .8440 BRA 7.0082 BC3 1.2958 FSP -449

MID-COURSE EXECUTION ACCURACY

SGT 5947.4 SGR 433.5 SG3 130.4
 RRT .6017 RRF .5877 RTF .9731
 SGB 5963.2 R23 .0003 R13 .9731
 SG1 5953.1 SG2 346.0 THA 2.52

ORBIT DETERMINATION ACCURACY

ST 1758.5 SR 327.0 SS 507.1
 CRT -.0375 CRS .1385 CST -.9946
 LSA 1829.5 MSA 330.4 SSA 11.1
 EL1 1758.5 EL2 326.8 ALF 179.59

LAUNCH DATE FEB 7 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 613.376
 RL 147.55 LAL .00 LOL 138.05 VL 26.290 GAL 15.43 AZL 90.74 MCA 308.15 SMA 119.81 ECC .34735 INC .7353 V1 30.196
 RP 107.68 LAP .58 LOP 86.20 VP 36.840 GAP 19.51 AZP 90.45 TAL 145.42 TAP 93.57 RCA 78.19 APO 161.42 V2 35.192
 RC 197.118 GL -2.25 GP -10.44 ZAL 35.96 ZAP 169.27 ETS 259.91 ZAE 128.22 ETE 188.39 ZAC 175.88 ETC 116.64 CLP 177.51

PLANETOCENTRIC CONIC

C3 68.643 VHL 8.285 DLA 20.65 RAL 102.99 RAD 6569.3 VEL 13.784 PTH 2.52 VHP 12.694 DPA 13.34 RAP 84.26 ECC 2.1297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 51 3225.13 -25.74 112.50 355.13 77.77 7 1 37 2625.1 -27.17 104.12
 90.00 0 3 50 4458.45 8.28 186.50 343.03 62.82 1 18 9 3858.4 4.57 179.78
 100.00 7 42 49 2918.90 -27.78 90.45 355.61 78.50 8 31 28 2318.9 -29.09 81.89
 100.00 1 11 34 4239.90 10.13 169.45 342.05 61.73 2 22 13 3639.9 6.27 162.79
 110.00 9 20 2 2614.79 -32.94 68.47 356.73 80.31 10 3 36 2014.8 -33.93 59.37
 110.00 1 50 51 4116.78 14.69 157.45 339.38 58.78 2 59 27 3516.8 10.44 150.92

DIFFERENTIAL CORRECTIONS

TDE -.9173 TRA 7.6056 TC3 -1.0698 BAU .9818
 RDE .4351 RRA .3851 RC3 -.0166 FAU .00590
 FDE -.2956 FRA 1.9448 FC3 -.0744 BSP 19770
 BOE 1.0152 BRA 7.6153 BC3 1.0699 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 5927.6 SGR 415.1 SG3 125.9
 RRT .5924 RRF .5803 RTF .9757
 SGB 5942.1 R23 .0006 R13 .9757
 SG1 5932.7 SG2 334.1 THA 2.38

ORBIT DETERMINATION ACCURACY

ST 1802.4 SR 312.7 SS 523.4
 CRT -.0831 CRS .1655 CST -.9963
 LSA 1876.5 MSA 314.2 SSA 10.6
 EL1 1802.6 EL2 311.6 ALF 179.15

LAUNCH DATE FEB 7 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 617.046
 RL 147.55 LAL .00 LOL 138.05 VL 26.260 GAL 16.83 AZL 91.02 MCA 311.38 SMA 119.64 ECC .36566 INC 1.0209 V1 30.196
 RP 107.66 LAP .77 LOP 89.43 VP 36.827 GAP 20.70 AZP 90.67 TAL 144.47 TAP 95.85 RCA 75.89 APO 163.38 V2 35.201
 RC 198.846 GL -2.88 GP -10.27 ZAL 34.80 ZAP 169.12 ETS 253.87 ZAE 127.94 ETE 188.19 ZAC 176.02 ETC 87.30 CLP 176.38

PLANETOCENTRIC CONIC

C3 79.314 VHL 8.906 DLA 19.90 RAL 104.20 RAD 6569.6 VEL 14.166 PTH 2.58 VHP 13.416 DPA 13.70 RAP 86.37 ECC 2.3053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 17 3227.28 -25.71 112.65 358.65 77.70 7 15 4 2627.3 -27.15 104.28
 90.00 0 0 6 4523.79 10.29 190.25 346.11 63.47 1 15 29 3923.8 6.65 183.46
 100.00 7 55 18 2924.08 -27.71 90.82 359.13 78.32 8 44 2 2324.1 -29.04 82.27
 100.00 1 8 45 4302.22 12.11 173.01 345.16 62.46 2 20 27 3702.2 8.33 166.27
 110.00 9 30 46 2625.40 -32.82 69.28 .27 79.85 10 14 32 2025.4 -33.87 60.20
 110.00 1 49 47 4173.66 16.67 160.67 342.57 59.71 2 59 20 3573.7 12.52 154.02

DIFFERENTIAL CORRECTIONS

TDE -1.1184 TRA 8.2592 TC3 -.8661 BAU .9185
 RDE .4461 RRA .3958 RC3 -.0111 FAU .00416
 FDE -.3277 FRA 2.0292 FC3 -.0454 BSP 19778
 BOE 1.2040 BRA 8.2687 BC3 .8662 FSP -416

MID-COURSE EXECUTION ACCURACY

SGT 5902.0 SGR 395.1 SG3 121.5
 RRT .5808 RRF .5706 RTF .9784
 SGB 5915.2 R23 .0008 R13 .9784
 SG1 5906.5 SG2 321.3 THA 2.23

ORBIT DETERMINATION ACCURACY

ST 1842.3 SR 298.2 SS 541.1
 CRT -.1251 CRS .1914 CST -.9975
 LSA 1920.2 MSA 297.7 SSA 10.1
 EL1 1842.7 EL2 295.8 ALF 178.81

LAUNCH DATE FEB 7 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 620.271
 RL 147.55 LAL .00 LOL 138.05 VL 26.231 GAL 18.38 AZL 91.34 MCA 314.61 SMA 119.47 ECC .38618 INC 1.3367 V1 30.196
 RP 107.63 LAP .95 LOP 92.66 VP 36.815 GAP 22.03 AZP 90.94 TAL 143.65 TAP 98.26 RCA 73.34 APO 165.61 V2 35.209
 RC 200.549 GL -3.47 GP -10.11 ZAL 33.78 ZAP 168.81 ETS 247.78 ZAE 127.59 ETE 188.00 ZAC 175.22 ETC 63.03 CLP 175.19

PLANETOCENTRIC CONIC

C3 92.182 VHL 9.601 DLA 19.22 RAL 105.26 RAD 6569.8 VEL 14.613 PTH 2.65 VHP 14.226 DPA 14.01 RAP 88.43 ECC 2.5171
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 10 3232.64 -25.63 113.02 358.65 77.53 7 27 3 2632.6 -27.09 104.66
 90.00 23 52 45 4585.97 12.16 193.86 349.13 64.23 25 9 11 3986.0 8.59 187.00
 100.00 8 6 24 2931.99 -27.60 91.38 351.97 78.04 8 55 16 2332.0 -28.97 82.85
 100.00 1 6 8 4361.85 13.97 176.47 348.22 63.30 2 18 50 3761.9 10.27 169.63
 110.00 9 40 22 2638.02 -32.66 70.23 358.78 79.30 10 24 20 2038.0 -33.79 61.18
 110.00 1 48 39 4228.59 18.52 163.85 345.69 60.74 2 59 8 3628.6 14.48 157.06

DIFFERENTIAL CORRECTIONS

TDE -1.3294 TRA 8.9712 TC3 -.6811 BAU .8394
 RDE .4579 RRA .4032 RC3 -.0064 FAU .00230
 FDE -.3596 FRA 2.1230 FC3 -.0216 BSP 19772
 BOE 1.4060 BRA 8.9803 BC3 .6812 FSP -402

MID-COURSE EXECUTION ACCURACY

SGT 5872.2 SGR 373.8 SG3 117.4
 RRT .5665 RRF .5583 RTF .9810
 SGB 5884.1 R23 .0012 R13 .9811
 SG1 5876.1 SG2 307.8 THA 2.07

ORBIT DETERMINATION ACCURACY

ST 1877.2 SR 283.8 SS 560.6
 CRT -.1629 CRS .2154 CST -.9984
 LSA 1959.5 MSA 281.2 SSA 9.6
 EL1 1877.8 EL2 279.9 ALF 178.56

LAUNCH DATE FEB 8 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 19 1969

HELIOCENTRIC CONIC

DISTANCE 175.728

RL 147.58 LAL .00 LOL 139.06 VL 25.490 GAL -3.95 AZL 87.70 HCA 76.23 SMA 115.52 ECC .28530 INC 2.2997 V1 30.190
 RP 108.13 LAP 2.23 LOP 215.28 VP 36.137 GAP -16.18 AZP 89.45 TAL 190.03 TAP 266.26 RCA 82.56 APO 148.48 V2 35.047
 RC 44.838 GL 11.10 GP 10.33 ZAL 112.79 ZAP 10.55 ETS 260.72 ZAE 155.86 ETE 5.08 ZAC 126.45 ETC 156.23 CLP 2.17

PLANETOCENTRIC CONIC

C3 28.108 VHL 5.302 DLA 20.27 RAL 19.64 RAD 6568.1 VEL 12.226 PTH 2.20 VHP 10.481 OPA 21.55 RAP 31.76 ECC 1.4626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 49 2986.89 -28.05 95.48 254.86 85.98 1 25 36 2386.9 -28.32 86.82
 90.00 18 19 9 4252.20 1.72 174.89 246.13 61.73 19 30 2 3652.2 -2.07 168.27
 100.00 2 10 19 2682.22 -29.79 73.18 254.98 87.35 2 55 1 2082.2 -29.84 64.37
 100.00 19 27 22 4032.11 3.24 157.87 245.28 60.27 20 34 34 3432.1 -.74 151.35
 110.00 3 46 37 2380.89 -34.17 50.37 255.05 90.92 4 26 18 1780.9 -33.67 41.17
 110.00 20 7 32 3906.20 6.98 146.02 242.97 56.45 21 12 38 3306.2 2.52 139.77

DIFFERENTIAL CORRECTIONS

TDE -.2969 TRA -.4879 TC3 .3619 BAU .1372
 RDE -.3785 RRA .1159 RC3 .0490 FAU .02777
 FDE .1739 FRA .1106 FC3 -.8552 BSP 2111
 BDE .4811 BRA .5015 BC3 .3652 FSP -192

MID-COURSE EXECUTION ACCURACY

SGT 752.5 SGR 433.4 SG3 80.8
 RRT .2334 RRF -.2640 RTF -.6822
 SGB 868.4 R23 -.0354 R13 -.6898
 SG1 762.2 SG2 416.1 THA 10.96

ORBIT DETERMINATION ACCURACY

ST 362.7 SR 411.0 SS 175.4
 CRT .8353 CRS .9469 CST .9546
 LSA 553.6 MSA 156.2 SSA 20.2
 EL1 525.5 EL2 156.0 ALF 49.27

LAUNCH DATE FEB 8 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 182.466

RL 147.58 LAL .00 LOL 139.06 VL 25.760 GAL -4.00 AZL 87.88 HCA 79.43 SMA 116.93 ECC .27063 INC 2.1231 V1 30.190
 RP 108.17 LAP 2.09 LOP 218.49 VP 36.315 GAP -15.12 AZP 89.61 TAL 190.94 TAP 270.38 RCA 85.28 APO 148.57 V2 35.033
 RC 45.818 GL 10.84 GP 10.93 ZAL 114.45 ZAP 10.93 ETS 271.95 ZAE 153.83 ETE 6.85 ZAC 127.21 ETC 155.27 CLP .14

PLANETOCENTRIC CONIC

C3 25.630 VHL 5.063 DLA 19.41 RAL 18.14 RAD 6568.0 VEL 12.125 PTH 2.17 VHP 9.888 OPA 22.56 RAP 32.66 ECC 1.4218
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 35 2927.82 -28.26 91.17 251.25 88.13 1 28 23 2327.8 -28.22 82.50
 90.00 18 3 23 4265.45 2.15 175.63 242.97 61.76 19 14 29 3665.4 -1.64 169.00
 100.00 2 13 2 2626.49 -29.89 69.04 251.29 89.53 2 56 49 2026.5 -29.63 60.24
 100.00 19 12 38 4042.02 3.58 158.42 242.18 60.30 20 20 0 3442.0 -.40 151.89
 110.00 3 47 25 2331.23 -34.05 46.50 251.17 93.21 4 26 16 1731.2 -33.23 37.35
 110.00 19 54 45 3910.04 7.12 146.22 239.99 56.48 20 59 55 3310.0 2.66 139.97

DIFFERENTIAL CORRECTIONS

TDE -.2904 TRA -.4605 TC3 .4337 BAU .1506
 RDE -.3634 RRA .1148 RC3 .0713 FAU .02986
 FDE .1699 FRA .0929 FC3-1.0087 BSP 2277
 BDE .4652 BRA .4746 BC3 .4395 FSP -219

MID-COURSE EXECUTION ACCURACY

SGT 778.6 SGR 439.7 SG3 90.3
 RRT .2651 RRF -.2990 RTF -.7044
 SGB 894.2 R23 -.0380 R13 -.7129
 SG1 790.7 SG2 417.5 THA 11.87

ORBIT DETERMINATION ACCURACY

ST 368.4 SR 413.4 SS 168.7
 CRT .8430 CRS .9523 CST .9502
 LSA 557.5 MSA 154.1 SSA 21.6
 EL1 531.8 EL2 154.0 ALF 48.90

LAUNCH DATE FEB 8 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 189.209

RL 147.58 LAL .00 LOL 139.06 VL 26.006 GAL -4.06 AZL 88.05 HCA 82.64 SMA 118.25 ECC .25730 INC 1.9503 V1 30.190
 RP 108.21 LAP 1.93 LOP 221.69 VP 36.477 GAP -14.11 AZP 89.27 TAL 191.92 TAP 274.56 RCA 87.83 APO 148.68 V2 35.020
 RC 46.944 GL 10.48 GP 11.61 ZAL 116.18 ZAP 11.76 ETS 282.75 ZAE 151.97 ETE 8.55 ZAC 127.87 ETC 154.24 CLP -1.93

PLANETOCENTRIC CONIC

C3 23.537 VHL 4.852 DLA 18.42 RAL 16.62 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 9.325 OPA 23.60 RAP 33.50 ECC 1.3874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 6 2867.35 -28.32 86.75 247.71 90.35 1 31 53 2267.4 -27.97 78.10
 90.00 17 46 47 4284.05 2.75 176.67 239.92 61.81 18 58 11 3684.0 -1.04 170.04
 100.00 2 16 30 2569.38 -29.85 64.80 247.68 91.76 2 59 20 1969.4 -29.28 56.04
 100.00 18 57 4 4057.25 4.09 159.26 239.18 60.36 20 4 41 3457.2 .11 152.73
 110.00 3 48 51 2280.46 -33.79 42.56 247.38 95.53 4 26 51 1680.5 -32.65 33.51
 110.00 19 41 12 3918.93 7.46 146.69 237.10 56.54 20 46 31 3318.9 3.00 140.43

DIFFERENTIAL CORRECTIONS

TDE -.2841 TRA -.4396 TC3 .5057 BAU .1621
 RDE -.3492 RRA .1145 RC3 .0988 FAU .03222
 FDE .1628 FRA .0724 FC3-1.1852 BSP 2356
 BDE .4501 BRA .4543 BC3 .5153 FSP -251

MID-COURSE EXECUTION ACCURACY

SGT 808.0 SGR 446.7 SG3 101.0
 RRT .2976 RRF -.3383 RTF -.7176
 SGB 923.2 R23 -.0482 R13 -.7278
 SG1 822.8 SG2 418.8 THA 12.68

ORBIT DETERMINATION ACCURACY

ST 373.8 SR 414.6 SS 158.9
 CRT .8477 CRS .9568 CST .9422
 LSA 559.3 MSA 153.2 SSA 23.3
 EL1 536.8 EL2 153.1 ALF 48.48

LAUNCH DATE FEB 8 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 195.953

RL 147.58 LAL .00 LOL 139.06 VL 26.229 GAL -4.13 AZL 88.22 HCA 85.83 SMA 119.50 ECC .24522 INC 1.7801 V1 30.190
 RP 108.25 LAP 1.78 LOP 224.89 VP 36.624 GAP -13.15 AZP 89.87 TAL 192.96 TAP 278.79 RCA 90.19 APO 148.80 V2 35.007
 RC 48.205 GL 10.03 GP 12.35 ZAL 117.96 ZAP 12.99 ETS 291.17 ZAE 150.28 ETE 10.23 ZAC 128.43 ETC 153.15 CLP -4.06

PLANETOCENTRIC CONIC

C3 21.772 VHL 4.666 DLA 17.33 RAL 15.12 RAD 6567.9 VEL 11.965 PTH 2.13 VHP 8.793 OPA 24.69 RAP 34.25 ECC 1.3583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 49 18 2806.00 -28.21 82.26 244.27 92.59 1 36 4 2206.0 -27.55 73.66
 90.00 17 29 35 4307.51 3.50 177.98 237.02 61.88 18 41 23 3707.5 -.28 171.35
 100.00 2 20 40 2511.38 -29.65 60.50 244.18 94.02 3 2 31 1911.4 -28.77 51.80
 100.00 18 40 55 4077.36 4.76 160.37 236.32 60.46 19 48 52 3477.4 .79 153.83
 110.00 3 50 56 2228.93 -33.38 38.59 243.72 97.84 4 28 5 1628.9 -31.93 29.66
 110.00 19 27 8 3932.57 7.97 147.42 234.35 56.65 20 32 40 3332.6 3.52 141.15

DIFFERENTIAL CORRECTIONS

TDE -.2754 TRA -.4162 TC3 .5830 BAU .1740
 RDE -.3355 RRA .1150 RC3 .1322 FAU .03485
 FDE .1519 FRA .0489 FC3-1.3860 BSP 2475
 BDE .4341 BRA .4318 BC3 .5978 FSP -286

MID-COURSE EXECUTION ACCURACY

SGT 834.8 SGR 454.8 SG3 113.0
 RRT .3353 RRF -.3818 RTF -.7328
 SGB 950.7 R23 -.0561 R13 -.7448
 SG1 853.2 SG2 419.2 THA 13.72

ORBIT DETERMINATION ACCURACY

ST 374.8 SR 414.4 SS 145.4
 CRT .8517 CRS .9599 CST .9303
 LSA 556.6 MSA 151.3 SSA 25.3
 EL1 537.8 EL2 151.3 ALF 48.37

LAUNCH DATE FEB 8 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 202.693

RL 147.58 LAL .00 LOL 139.06 VL 26.431 GAL -4.21 AZL 88.39 HCA 89.03 SMA 120.65 ECC .23432 INC 1.6114 VI 30.190
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.757 GAP -12.23 AZP 89.97 TAL 194.03 TAP 283.06 RCA 92.38 APO 148.92 V2 34.994
 RC 49.590 GL 9.47 GP 13.18 ZAL 119.76 ZAP 14.56 ETS 298.54 ZAE 148.78 ETE 11.94 ZAC 128.86 ETC 152.00 CLP -6.26

PLANETOCENTRIC CONIC

C3 20.285 VHL 4.504 DLA 16.13 RAL 13.66 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 8.289 OPA 25.83 RAP 34.91 ECC 1.3338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 55 9 2744.22 -27.94 77.76 240.98 94.83 1 40 53 2144.2 -26.97 69.23
 90.00 17 12 4 4335.32 4.39 179.54 234.30 62.00 18 24 20 3735.3 .61 172.90
 100.00 2 25 29 2452.89 -29.29 56.18 240.83 96.26 3 6 22 1852.9 -28.11 47.58
 100.00 18 24 25 4101.89 5.59 161.72 233.65 60.59 19 32 47 3501.9 1.63 155.18
 110.00 3 53 40 2176.95 -32.83 34.63 240.23 100.12 4 29 57 1576.9 -31.08 25.85
 110.00 19 12 43 3950.59 8.64 148.38 231.78 56.80 20 18 34 3350.6 4.21 142.09

DIFFERENTIAL CORRECTIONS

TDE -.2630 TRA -.3914 TC3 .6655 BAU .1864
 RDE -.3221 RRA .1164 RC3 .1725 FAU .03785
 FDE .1358 FRA .0212 FC3 -1.6152 BSP 2632
 BDE .4159 BRA .4083 BC3 .6875 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 860.2 SGR 464.6 SG3 126.6
 RRT .3763 RRF -.4297 RTF -.7493
 SGB 977.7 R23 -.0641 R13 -.7634
 SG1 883.2 SG2 419.2 THA 14.93

ORBIT DETERMINATION ACCURACY

ST 369.4 SR 412.4 SS 127.7
 CRT .8534 CRS .9597 CST .9090
 LSA 547.6 MSA 149.1 SSA 27.5
 EL1 533.3 EL2 148.9 ALF 48.68

LAUNCH DATE FEB 8 1969

FLIGHT TIME 80.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 209.426

RL 147.58 LAL .00 LOL 139.06 VL 26.614 GAL -4.28 AZL 88.56 HCA 92.22 SMA 121.73 ECC .22452 INC 1.4431 VI 30.190
 RP 108.33 LAP 1.44 LOP 231.28 VP 36.876 GAP -11.36 AZP 90.06 TAL 195.13 TAP 287.36 RCA 94.40 APO 149.06 V2 34.980
 RC 51.091 GL 8.81 GP 14.09 ZAL 121.56 ZAP 16.43 ETS 304.52 ZAE 147.46 ETE 13.72 ZAC 129.15 ETC 150.81 CLP -8.53

PLANETOCENTRIC CONIC

C3 19.035 VHL 4.363 DLA 14.83 RAL 12.26 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 7.814 OPA 27.02 RAP 35.45 ECC 1.3133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 35 2682.43 -27.50 73.29 237.87 97.03 1 46 18 2082.4 -26.24 64.85
 90.00 16 54 28 4366.94 5.40 181.32 231.80 62.16 18 7 15 3766.9 1.63 174.66
 100.00 2 30 56 2394.29 -28.78 51.90 237.67 98.45 3 10 50 1794.3 -27.31 43.41
 100.00 18 7 49 4130.31 6.53 163.30 231.18 60.77 19 16 39 3530.3 2.59 156.74
 110.00 3 57 3 2124.82 -32.13 30.73 236.96 102.34 4 32 28 1524.8 -30.10 22.10
 110.00 18 58 11 3972.54 9.46 149.56 229.40 57.00 20 4 23 3372.5 5.04 143.24

DIFFERENTIAL CORRECTIONS

TDE -.2507 TRA -.3692 TC3 .7438 BAU .1974
 RDE -.3090 RRA .1185 RC3 .2200 FAU .04116
 FDE .1149 FRA -.0089 FC3 -1.8719 BSP 2742
 BDE .3979 BRA .3878 BC3 .7757 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 883.9 SGR 476.9 SG3 141.7
 RRT .4209 RRF -.4816 RTF -.7613
 SGB 1004.3 R23 -.0746 R13 -.7782
 SG1 912.8 SG2 418.9 THA 16.33

ORBIT DETERMINATION ACCURACY

ST 362.5 SR 408.7 SS 107.2
 CRT .8534 CRS .9512 CST .8707
 LSA 536.0 MSA 147.3 SSA 30.1
 EL1 526.2 EL2 146.7 ALF 49.01

LAUNCH DATE FEB 8 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 216.148

RL 147.58 LAL .00 LOL 139.06 VL 26.780 GAL -4.35 AZL 88.73 HCA 95.41 SMA 122.72 ECC .21576 INC 1.2743 VI 30.190
 RP 108.38 LAP 1.27 LOP 234.47 VP 36.983 GAP -10.52 AZP 90.12 TAL 196.25 TAP 291.67 RCA 96.24 APO 149.20 V2 34.967
 RC 52.697 GL 8.05 GP 15.11 ZAL 123.34 ZAP 18.55 ETS 309.36 ZAE 146.33 ETE 15.62 ZAC 129.27 ETC 149.59 CLP -10.89

PLANETOCENTRIC CONIC

C3 17.987 VHL 4.241 DLA 13.46 RAL 10.95 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 7.367 OPA 28.27 RAP 35.86 ECC 1.2960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 37 2620.91 -26.91 68.89 234.97 99.16 1 52 18 2020.9 -25.37 60.56
 90.00 16 36 58 4401.88 6.51 183.29 229.53 62.38 17 50 20 3801.9 -26.37 39.32
 100.00 2 37 0 2335.86 -28.12 47.69 234.73 100.58 3 15 56 1735.9 3.66 158.49
 100.00 17 51 16 4162.17 7.59 165.08 228.94 61.00 19 0 38 3562.2 1472.8 -29.01 18.45
 110.00 4 1 5 2072.78 -31.31 26.89 233.91 104.47 4 35 38 3398.0 6.01 144.59
 110.00 18 43 41 3998.01 10.40 150.93 227.25 57.25 19 50 19

DIFFERENTIAL CORRECTIONS

TDE -.2364 TRA -.3481 TC3 .8193 BAU .2079
 RDE -.2957 RRA .1215 RC3 .2757 FAU .04484
 FDE .0879 FRA -.0422 FC3 -2.1584 BSP 2845
 BDE .3786 BRA .3686 BC3 .8644 FSP -423

MID-COURSE EXECUTION ACCURACY

SGT 904.8 SGR 492.7 SG3 158.6
 RRT .4677 RRF -.5367 RTF -.7718
 SGB 1030.3 R23 -.0867 R13 -.7923
 SG1 941.4 SG2 418.5 THA 17.95

ORBIT DETERMINATION ACCURACY

ST 351.4 SR 402.8 SS 84.0
 CRT .8507 CRS .9163 CST .7874
 LSA 520.1 MSA 145.6 SSA 33.1
 EL1 514.6 EL2 144.6 ALF 49.56

LAUNCH DATE FEB 8 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 222.857

RL 147.58 LAL .00 LOL 139.06 VL 26.928 GAL -4.43 AZL 88.90 HCA 98.60 SMA 123.63 ECC .20795 INC 1.1037 VI 30.190
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.079 GAP -9.72 AZP 90.17 TAL 197.37 TAP 295.97 RCA 97.92 APO 149.34 V2 34.954
 RC 54.398 GL 7.18 GP 16.25 ZAL 125.06 ZAP 20.91 ETS 313.28 ZAE 145.38 ETE 17.67 ZAC 129.22 ETC 148.34 CLP -13.35

PLANETOCENTRIC CONIC

C3 17.109 VHL 4.136 DLA 12.01 RAL 9.74 RAD 6567.7 VEL 11.768 PTH 2.08 VHP 6.948 OPA 29.58 RAP 36.11 ECC 1.2816
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 13 2559.88 -26.18 64.57 232.30 101.21 1 58 53 1959.9 -24.36 56.37
 90.00 16 19 44 4439.71 7.70 185.43 227.51 62.67 17 33 44 3839.7 3.97 178.73
 100.00 2 43 41 2277.81 -27.33 43.55 232.03 102.62 3 21 39 1677.8 -25.31 35.33
 100.00 17 34 58 4197.01 8.73 167.03 226.95 61.30 18 44 55 3597.0 4.84 160.41
 110.00 4 5 45 2021.01 -30.37 23.15 231.13 106.50 4 39 26 1421.0 -27.81 14.89
 110.00 18 29 23 4026.58 11.44 152.48 225.33 57.57 19 36 30 3426.6 7.08 146.10

DIFFERENTIAL CORRECTIONS

TDE -.2205 TRA -.3282 TC3 .8895 BAU .2178
 RDE -.2818 RRA .1253 RC3 .3403 FAU .04893
 FDE .0534 FRA -.0787 FC3 -2.4761 BSP 2949
 BDE .3579 BRA .3513 BC3 .9524 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 922.4 SGR 513.0 SG3 177.4
 RRT .5156 RRF -.5939 RTF -.7807
 SGB 1055.4 R23 -.1004 R13 -.8057
 SG1 969.0 SG2 418.4 THA 19.85

ORBIT DETERMINATION ACCURACY

ST 336.5 SR 394.1 SS 61.1
 CRT .8447 CRS .7771 CST .5631
 LSA 500.2 MSA 144.2 SSA 36.4
 EL1 498.3 EL2 142.5 ALF 50.32

LAUNCH DATE FEB 8 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 229.549

RL 147.58 LAL .00 LOL 139.06 VL 27.062 GAL -4.50 AZL 89.07 MCA 101.79 SMA 124.47 ECC .20102 INC .9304 VI 30.190
 RP 108.45 LAP .91 LOP 240.85 VP 37.164 GAP -8.96 AZP 90.19 TAL 198.46 TAP 300.25 RCA 99.45 APO 149.49 V2 34.942
 RC 56.186 GL 6.22 GP 17.51 ZAL 126.72 ZAP 23.50 ETS 316.50 ZAE 144.59 ETE 19.92 ZAC 128.98 ETC 147.09 CLP -15.93

PLANETOCENTRIC CONIC

C3 16.376 VHL 4.047 DLA 10.50 RAL 8.65 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 6.556 DPA 30.97 RAP 36.18 ECC 1.2695
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 24 25 2499.44 -25.31 60.36 229.89 103.15 2 6 4 1899.4 -23.25 52.30
 90.00 16 2 53 4480.04 8.95 187.73 225.76 63.02 17 17 33 3880.0 5.26 181.00
 100.00 2 50 59 2220.25 -26.40 39.53 229.59 104.55 3 27 59 1620.3 -24.15 31.45
 100.00 17 19 0 4234.46 9.95 169.15 225.22 61.67 18 29 35 3634.5 6.09 162.49
 110.00 4 11 5 1969.61 -29.32 19.52 228.61 108.41 4 43 54 1369.6 -26.53 11.45
 110.00 18 15 24 4057.87 12.58 154.19 223.67 57.95 19 23 2 3457.9 8.26 147.76

DIFFERENTIAL CORRECTIONS

TDE -.2034 TRA -.3100 TC3 .9521 BAU .2274
 RDE -.2670 RRA .1300 RC3 .4151 FAU .05346
 FDE .0104 FRA -.1183 FC3-2.8260 BSP 3044
 BDE .3357 BRA .3362 BC3 1.0386 FSP -545

MID-COURSE EXECUTION ACCURACY

SGT .935.9 SGR 539.3 SG3 198.2
 RRT .5630 RRF -.6515 RTF -.7875
 SGB 1080.2 R23 -.1156 R13 -.8187
 SG1 995.6 SG2 419.0 THA 22.08

ORBIT DETERMINATION ACCURACY

ST 318.5 SR 382.3 SS 49.2
 CRT .8344 CRS .2746 CST -.0372
 LSA 477.4 MSA 143.2 SSA 40.1
 EL1 477.3 EL2 140.6 ALF 51.21

LAUNCH DATE FEB 8 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 236.223

RL 147.58 LAL .00 LOL 139.06 VL 27.181 GAL -4.56 AZL 89.25 MCA 104.97 SMA 125.23 ECC .19490 INC .7532 VI 30.190
 RP 108.49 LAP .73 LOP 244.03 VP 37.239 GAP -8.23 AZP 90.19 TAL 199.53 TAP 304.50 RCA 100.82 APO 149.63 V2 34.929
 RC 58.051 GL 5.15 GP 18.91 ZAL 128.28 ZAP 26.31 ETS 319.19 ZAE 143.95 ETE 22.42 ZAC 128.51 ETC 145.85 CLP -18.64

PLANETOCENTRIC CONIC

C3 15.766 VHL 3.971 DLA 8.93 RAL 7.70 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 6.191 DPA 32.44 RAP 36.04 ECC 1.2595
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 13 2439.60 -24.32 56.26 227.74 104.98 2 13 53 1839.6 -22.02 48.34
 90.00 15 46 29 4522.61 10.26 190.18 224.27 63.46 17 1 52 3922.6 6.61 183.40
 100.00 2 58 55 2163.21 -25.37 35.60 227.42 106.36 3 34 58 1563.2 -22.88 27.69
 100.00 17 3 29 4274.23 11.23 171.41 223.76 62.11 18 14 43 3674.2 7.41 164.70
 110.00 4 17 5 1918.62 -28.17 15.99 226.38 110.21 4 49 3 1318.6 -25.16 8.12
 110.00 18 1 48 4091.58 13.79 156.05 222.26 58.41 19 10 0 3491.6 9.51 149.56

DIFFERENTIAL CORRECTIONS

TDE -.1830 TRA -.2918 TC3 1.0085 BAU .2374
 RDE -.2503 RRA .1359 RC3 .5015 FAU .05848
 FDE -.0452 FRA -.1624 FC3-3.2112 BSP 3182
 BDE .3101 BRA .3219 BC3 1.1263 FSP -620

MID-COURSE EXECUTION ACCURACY

SGT 944.9 SGR 573.1 SG3 221.4
 RRT .6088 RRF -.7077 RTF -.7948
 SGB 1105.1 R23 -.1294 R13 -.8334
 SG1 1022.1 SG2 420.3 THA 24.72

ORBIT DETERMINATION ACCURACY

ST 294.4 SR 366.2 SS 65.9
 CRT .8167 CRS -.4077 CST -.6751
 LSA 450.4 MSA 142.6 SSA 44.3
 EL1 449.0 EL2 138.6 ALF 52.54

LAUNCH DATE FEB 8 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 242.876

RL 147.58 LAL .00 LOL 139.06 VL 27.286 GAL -4.62 AZL 89.43 MCA 108.16 SMA 125.91 ECC .18950 INC .5707 VI 30.190
 RP 108.53 LAP .54 LOP 247.21 VP 37.305 GAP -7.53 AZP 90.18 TAL 200.54 TAP 308.70 RCA 102.05 APO 149.77 V2 34.917
 RC 59.985 GL 3.98 GP 20.47 ZAL 129.72 ZAP 29.34 ETS 321.48 ZAE 143.43 ETE 25.22 ZAC 127.80 ETC 144.66 CLP -21.49

PLANETOCENTRIC CONIC

C3 15.260 VHL 3.906 DLA 7.31 RAL 6.90 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 5.854 DPA 34.00 RAP 35.66 ECC 1.2511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 41 2380.30 -23.21 52.26 225.87 106.69 2 22 21 1780.3 -20.71 44.48
 90.00 15 30 36 4567.19 11.60 192.77 223.06 63.99 16 46 43 3967.2 8.01 185.93
 100.00 3 7 32 2106.64 -24.23 31.79 225.52 108.06 3 42 38 1506.6 -21.53 24.03
 100.00 16 48 27 4316.08 12.55 173.81 222.57 62.65 18 0 23 3716.1 8.79 167.05
 110.00 4 23 47 1868.01 -26.93 12.58 224.43 111.89 4 54 55 1268.0 -23.72 4.89
 110.00 17 48 41 4127.47 15.06 158.05 221.13 58.95 18 57 28 3527.5 10.84 151.50

DIFFERENTIAL CORRECTIONS

TDE -.1642 TRA -.2783 TC3 1.0473 BAU .2462
 RDE -.2318 RRA .1423 RC3 .5996 FAU .06386
 FDE -.1101 FRA -.2059 FC3-3.6229 BSP 3269
 BDE .2841 BRA .3126 BC3 1.2068 FSP -699

MID-COURSE EXECUTION ACCURACY

SGT 947.0 SGR 616.0 SG3 246.4
 RRT .6490 RRF -.7602 RTF -.7968
 SGB 1129.7 R23 -.1460 R13 -.8460
 SG1 1047.2 SG2 423.8 THA 27.83

ORBIT DETERMINATION ACCURACY

ST 271.7 SR 346.1 SS 103.2
 CRT .7914 CRS -.6790 CST -.8672
 LSA 426.0 MSA 143.1 SSA 48.5
 EL1 418.0 EL2 137.6 ALF 53.58

LAUNCH DATE FEB 8 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 249.507

RL 147.58 LAL .00 LOL 139.06 VL 27.380 GAL -4.68 AZL 89.62 MCA 111.33 SMA 126.53 ECC .18478 INC .3814 VI 30.190
 RP 108.57 LAP .36 LOP 250.39 VP 37.362 GAP -6.86 AZP 90.14 TAL 201.50 TAP 312.84 RCA 103.15 APO 149.91 V2 34.906
 RC 61.981 GL 2.70 GP 22.19 ZAL 131.03 ZAP 32.59 ETS 323.49 ZAE 143.01 ETE 28.38 ZAC 126.84 ETC 143.54 CLP -24.51

PLANETOCENTRIC CONIC

C3 14.842 VHL 3.853 DLA 5.65 RAL 6.25 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 5.546 DPA 35.64 RAP 35.01 ECC 1.2443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 51 2321.35 -22.01 48.36 224.28 108.28 2 31 33 1721.4 -19.31 40.73
 90.00 15 15 14 4613.71 12.97 195.49 222.13 64.61 16 32 8 4013.7 9.45 188.59
 100.00 3 16 52 2050.38 -22.99 28.07 223.91 109.65 3 51 3 1450.4 -20.10 20.46
 100.00 16 33 55 4359.92 13.91 176.36 221.66 63.27 17 46 34 3759.9 10.21 169.52
 110.00 4 31 14 1817.66 -25.61 9.26 222.77 113.45 5 1 31 1217.7 -22.22 1.75
 110.00 17 36 2 4165.41 16.38 160.20 220.26 59.57 18 45 28 3565.4 12.22 153.57

DIFFERENTIAL CORRECTIONS

TDE -.1445 TRA -.2671 TC3 1.0706 BAU .2550
 RDE -.2104 RRA .1497 RC3 .7112 FAU .06962
 FDE -.1893 FRA -.2506 FC3-4.0607 BSP 3359
 BDE .2553 BRA .3062 BC3 1.2853 FSP -785

MID-COURSE EXECUTION ACCURACY

SGT 941.3 SGR 669.5 SG3 273.3
 RRT .6823 RRF -.8074 RTF -.7962
 SGB 1155.1 R23 -.1610 R13 -.8594
 SG1 1072.2 SG2 429.7 THA 31.51

ORBIT DETERMINATION ACCURACY

ST 247.3 SR 320.4 SS 152.0
 CRT .7525 CRS -.7770 CST -.9130
 LSA 404.3 MSA 144.1 SSA 52.4
 EL1 380.9 EL2 137.0 ALF 54.60

LAUNCH DATE FEB 8 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.463 GAL -4.72 AZL 89.82 HCA 114.51 SMA 127.07 ECC .18065 INC .1841 V1 30.190
 RP 108.60 LAP .17 LOP 253.57 VP 37.412 GAP -6.22 AZP 90.08 TAL 202.39 TAP 316.90 RCA 104.12 APO 150.03 V2 34.894
 RC 64.032 GL 1.33 GP 24.09 ZAL 132.20 ZAP 36.08 ETS 325.31 ZAE 142.63 ETE 31.94 ZAC 125.60 ETC 142.54 CLP -27.71

DISTANCE 256.115

PLANETOCENTRIC CONIC
 C3 14.501 VHL 3.808 DLA 3.93 RAL 5.76 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 5.267 DPA 37.38 RAP 34.03 ECC 1.2387
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 50 2262.49 -20.70 44.54 222.96 109.76 2 41 32 1662.5 -17.82 37.05
 90.00 15 0 22 4662.23 14.37 198.37 221.48 65.34 16 18 4 4062.2 10.92 191.39
 100.00 3 27 1 1994.18 -21.66 24.42 222.58 111.12 4 0 15 1394.2 -18.59 16.97
 100.00 16 19 52 4405.78 15.29 179.06 221.03 64.00 17 33 17 3805.8 11.67 172.14
 110.00 4 39 29 1767.37 -24.21 6.03 221.40 114.90 5 8 57 1167.4 -20.65 358.69
 110.00 17 23 53 4205.36 17.74 162.50 219.68 60.29 18 33 58 3605.4 13.66 155.77

MID-COURSE EXECUTION ACCURACY
 SGT 926.6 SGR 735.4 SG3 301.9
 RRT .7069 RRF -.8483 RTF -.7913
 SGB 1183.0 R23 -.1729 R13 -.8736
 SG1 1098.6 SG2 438.7 THA 35.87

ORBIT DETERMINATION ACCURACY
 ST 223.9 SR 288.6 SS 207.9
 CRT .6944 CRS -.8125 CST -.9127
 LSA 390.6 MSA 145.2 SSA 55.3
 EL1 338.5 EL2 137.4 ALF 55.13

DIFFERENTIAL CORRECTIONS
 TDE -.1257 TRA -.2594 TC3 1.0746 BAU .2641
 RDE -.1854 RRA .1575 RC3 .8372 FAU .07566
 FDE -.2825 FRA -.2931 FC3-4.5167 BSP 3446
 BDE .2240 BRA .3035 BC3 1.3622 FSP -876

LAUNCH DATE FEB 8 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.535 GAL -4.76 AZL 90.02 HCA 117.69 SMA 127.56 ECC .17706 INC .0198 V1 30.190
 RP 108.64 LAP -.02 LOP 256.74 VP 37.455 GAP -5.61 AZP 89.99 TAL 203.19 TAP 320.88 RCA 104.97 APO 150.14 V2 34.883
 RC 66.131 GL -.17 GP 26.18 ZAL 133.21 ZAP 39.80 ETS 327.04 ZAE 142.24 ETE 35.94 ZAC 124.07 ETC 141.67 CLP -31.12

DISTANCE 262.697

PLANETOCENTRIC CONIC
 C3 14.227 VHL 3.772 DLA 2.17 RAL 5.43 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 5.017 DPA 39.20 RAP 32.69 ECC 1.2341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 43 2203.35 -19.29 40.77 221.92 111.14 2 52 26 1603.3 -16.25 33.42
 90.00 14 45 54 4712.93 15.79 201.42 221.12 66.18 16 4 27 4112.9 12.44 194.34
 100.00 3 38 4 1937.72 -20.23 20.84 221.53 112.49 4 10 22 1337.7 -17.01 13.53
 100.00 16 6 14 4453.80 16.70 181.93 220.68 64.84 17 20 28 3853.8 13.18 174.91
 110.00 4 48 38 1716.86 -22.73 2.86 220.31 116.25 5 17 15 1116.9 -19.01 355.69
 110.00 17 12 10 4247.41 19.15 164.95 219.37 61.13 18 22 58 3647.4 15.15 158.12

MID-COURSE EXECUTION ACCURACY
 SGT 903.0 SGR 815.8 SG3 332.0
 RRT .7227 RRF -.8826 RTF -.7835
 SGB 1216.9 R23 -.1761 R13 -.8901
 SG1 1130.5 SG2 450.4 THA 40.99

ORBIT DETERMINATION ACCURACY
 ST 199.8 SR 248.7 SS 272.6
 CRT .5998 CRS -.8139 CST -.8883
 LSA 389.6 MSA 145.3 SSA 56.7
 EL1 287.5 EL2 138.3 ALF 55.10

DIFFERENTIAL CORRECTIONS
 TDE -.1062 TRA -.2533 TC3 1.0613 BAU .2747
 RDE -.1553 RRA .1662 RC3 .9795 FAU .08194
 FDE -.3946 FRA -.3350 FC3-4.9858 BSP 3585
 BDE .1881 BRA .3030 BC3 1.4442 FSP -978

LAUNCH DATE FEB 8 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.597 GAL -4.79 AZL 90.24 HCA 120.86 SMA 127.98 ECC .17395 INC .2425 V1 30.190
 RP 108.67 LAP -.21 LOP 259.92 VP 37.491 GAP -5.02 AZP 89.88 TAL 203.90 TAP 324.76 RCA 105.72 APO 150.24 V2 34.873
 RC 68.274 GL -1.78 GP 28.47 ZAL 134.04 ZAP 43.75 ETS 328.75 ZAE 141.78 ETE 40.41 ZAC 122.24 ETC 140.98 CLP -34.74

DISTANCE 269.254

PLANETOCENTRIC CONIC
 C3 14.013 VHL 3.743 DLA .35 RAL 5.29 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 4.800 DPA 41.10 RAP 30.95 ECC 1.2306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 39 2143.48 -17.78 37.03 221.18 112.41 3 4 23 1543.5 -14.59 29.81
 90.00 14 31 48 4766.12 17.22 204.66 221.05 67.17 15 51 14 4166.1 13.98 197.48
 100.00 3 50 9 1880.58 -18.70 17.28 220.76 113.75 4 21 30 1280.6 -15.33 10.11
 100.00 15 52 59 4504.25 18.14 184.99 220.63 65.82 17 8 3 3904.3 14.72 177.86
 110.00 4 58 46 1665.81 -21.15 359.73 219.51 117.50 5 26 32 1065.8 -17.30 352.72
 110.00 17 0 52 4291.79 20.58 167.59 219.36 62.09 18 12 23 3691.8 16.69 160.64

MID-COURSE EXECUTION ACCURACY
 SGT 866.4 SGR 909.9 SG3 361.7
 RRT .7238 RRF -.9099 RTF -.7655
 SGB 1256.4 R23 -.1731 R13 -.9066
 SG1 1166.7 SG2 466.2 THA 46.94

ORBIT DETERMINATION ACCURACY
 ST 182.5 SR 201.8 SS 341.2
 CRT .4553 CRS -.7799 CST -.8478
 LSA 408.3 MSA 143.7 SSA 55.8
 EL1 232.8 EL2 140.8 ALF 51.25

DIFFERENTIAL CORRECTIONS
 TDE -.0907 TRA -.2530 TC3 1.0184 BAU .2858
 RDE -.1199 RRA .1742 RC3 1.1359 FAU .08803
 FDE -.5200 FRA -.3667 FC3-5.4383 BSP 3697
 BDE .1504 BRA .3072 BC3 1.5256 FSP -1076

LAUNCH DATE FEB 8 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.651 GAL -4.81 AZL 90.48 HCA 124.03 SMA 128.35 ECC .17126 INC .4773 V1 30.190
 RP 108.70 LAP -.40 LOP 263.09 VP 37.521 GAP -4.46 AZP 89.73 TAL 204.52 TAP 328.55 RCA 106.37 APO 150.33 V2 34.862
 RC 70.456 GL -3.54 GP 30.95 ZAL 134.68 ZAP 47.92 ETS 330.51 ZAE 141.17 ETE 45.35 ZAC 120.13 ETC 140.51 CLP -38.61

DISTANCE 275.784

PLANETOCENTRIC CONIC
 C3 13.855 VHL 3.722 DLA -1.55 RAL 5.32 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 4.616 DPA 43.06 RAP 28.75 ECC 1.2280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 49 2082.30 -16.15 33.28 220.72 113.58 3 17 32 1482.3 -12.83 26.18
 90.00 14 17 54 4822.32 18.67 208.15 221.29 68.32 15 38 16 4222.3 15.56 200.85
 100.00 4 3 27 1822.23 -17.06 13.72 220.29 114.92 4 33 49 1222.2 -13.56 6.68
 100.00 15 39 58 4557.62 19.59 188.28 220.88 66.96 16 55 55 3957.6 16.31 181.03
 110.00 5 10 2 1613.78 -19.49 356.61 219.00 118.66 5 36 56 1013.8 -15.51 349.75
 110.00 16 49 52 4338.84 22.05 170.45 219.66 63.20 18 2 11 3738.8 18.28 163.35

MID-COURSE EXECUTION ACCURACY
 SGT 817.8 SGR 1019.2 SG3 390.4
 RRT .7090 RRF -.9313 RTF -.7361
 SGB 1306.8 R23 -.1588 R13 -.9239
 SG1 1213.7 SG2 484.3 THA 53.69

ORBIT DETERMINATION ACCURACY
 ST 170.3 SR 148.7 SS 415.8
 CRT .2001 CRS -.6617 CST -.7960
 LSA 448.8 MSA 140.8 SSA 52.5
 EL1 178.0 EL2 139.4 ALF 27.84

DIFFERENTIAL CORRECTIONS
 TDE -.0784 TRA -.2563 TC3 .9485 BAU .2991
 RDE -.0774 RRA .1816 RC3 1.3068 FAU .09376
 FDE -.6618 FRA -.3889 FC3-5.8587 BSP 3843
 BDE .1102 BRA .3141 BC3 1.6147 FSP -1172

LAUNCH DATE FEB 8 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 282.288

RL 147.58 LAL .00 LOL 139.06 VL 27.696 GAL -4.83 AZL 90.73 HCA 127.20 SMA 128.66 ECC .16896 INC .7301 V1 30.190
 RP 108.73 LAP -.58 LOP 266.26 VP 37.545 GAP -3.92 AZP 89.56 TAL 205.04 TAP 332.23 RCA 106.92 APO 150.40 V2 34.853
 RC 72.672 GL -5.44 GP 33.62 ZAL 135.11 ZAP 52.28 ETS 332.41 ZAE 140.34 ETE 50.72 ZAC 117.73 ETC 140.29 CLP -42.72

PLANETOCENTRIC CONIC

C3 13.753 VHL 3.708 DLA -3.53 RAL 5.54 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 4.467 DPA 45.06 RAP 26.05 ECC 1.2263
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 27 2019.12 -14.40 29.47 220.57 114.65 3 32 6 1419.1 -10.95 22.49
 90.00 14 4 2 4882.24 20.14 211.94 221.85 69.66 15 25 25 4282.2 17.19 204.50
 100.00 4 18 9 1762.04 -15.30 10.12 220.12 116.00 4 47 31 1162.0 -11.68 3.20
 100.00 15 27 2 4614.55 21.07 191.87 221.46 68.29 16 43 57 4014.6 17.94 184.47
 110.00 5 22 36 1560.25 -17.71 353.48 218.80 119.73 5 48 37 960.3 -13.62 346.76
 110.00 16 39 4 4389.11 23.56 173.57 220.29 64.49 17 52 13 3789.1 19.93 166.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0697 TRA -.2622 TC3 .8523 BAU .3159 SGT 758.9 SGR 1144.9 SG3 417.3 ST 163.7 SR 101.5 SS 497.5
 ROE -.0259 RRA .1878 RC3 1.4921 FAU .09893 RRT .6743 RRF -.9478 RTF -.6909 CRT -.3424 CRS -.2283 CST -.7419
 FOE -.8207 FRA -.3997 FC3-6.2276 BSP 4067 SGB 1373.6 R23 -.1327 R13 -.9411 LSA 513.1 MSA 137.9 SSA 47.3
 BOE .0743 BRA .3225 BC3 1.7184 FSP -1268 SG1 1278.7 SG2 501.8 THA 61.04 EL1 169.0 EL2 92.4 ALF 162.69

LAUNCH DATE FEB 8 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 288.764

RL 147.58 LAL .00 LOL 139.06 VL 27.734 GAL -4.83 AZL 91.01 HCA 130.36 SMA 128.92 ECC .16699 INC 1.0050 V1 30.190
 RP 108.76 LAP -.77 LOP 269.42 VP 37.565 GAP -3.40 AZP 89.35 TAL 205.45 TAP 335.81 RCA 107.39 APO 150.45 V2 34.844
 RC 74.919 GL -7.52 GP 36.46 ZAL 135.32 ZAP 56.81 ETS 334.50 ZAE 139.22 ETE 56.43 ZAC 115.07 ETC 140.34 CLP -47.10

PLANETOCENTRIC CONIC

C3 13.708 VHL 3.702 DLA -5.62 RAL 5.96 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 4.355 DPA 47.07 RAP 22.82 ECC 1.2256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 51 1953.08 -12.49 25.56 220.74 115.62 3 48 24 1353.1 -8.94 18.68
 90.00 13 50 0 4946.86 21.61 216.10 222.77 71.24 15 12 27 4346.9 18.85 208.52
 100.00 4 34 32 1699.24 -13.39 6.44 220.28 116.98 5 2 52 1099.2 -9.67 359.63
 100.00 15 14 0 4675.93 22.56 195.81 222.40 69.85 16 31 56 4075.9 19.61 188.26
 110.00 5 36 42 1504.62 -15.80 350.30 218.91 120.71 6 1 47 904.6 -11.61 343.70
 110.00 16 28 20 4443.32 25.11 177.03 221.27 66.01 17 42 23 3843.3 21.65 169.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0695 TRA -.2733 TC3 .7193 BAU .3354 SGT 689.8 SGR 1281.8 SG3 438.9 ST 167.5 SR 110.3 SS 581.0
 ROE .0348 RRA .1901 RC3 1.6828 FAU .10280 RRT .6020 RRF -.9600 RTF -.6105 CRT -.8930 CRS .6090 CST -.7149
 FOE -.9864 FRA -.3890 FC3-6.4923 BSP 4308 SGB 1455.6 R23 -.1002 R13 -.9557 LSA 597.9 MSA 136.3 SSA 41.3
 BOE .0777 BRA .3329 BC3 1.8301 FSP -1343 SG1 1359.9 SG2 519.2 THA 68.81 EL1 196.0 EL2 42.4 ALF 147.87

LAUNCH DATE FEB 8 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 295.214

RL 147.58 LAL .00 LOL 139.06 VL 27.764 GAL -4.82 AZL 91.31 HCA 133.52 SMA 129.13 ECC .16531 INC 1.3066 V1 30.190
 RP 108.78 LAP -.95 LOP 272.59 VP 37.580 GAP -2.90 AZP 89.10 TAL 205.76 TAP 339.28 RCA 107.79 APO 150.48 V2 34.835
 RC 77.194 GL -9.80 GP 39.45 ZAL 135.27 ZAP 61.43 ETS 336.86 ZAE 137.75 ETE 62.38 ZAC 112.18 ETC 140.70 CLP -51.74

PLANETOCENTRIC CONIC

C3 13.729 VHL 3.705 DLA -7.83 RAL 6.60 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 4.285 DPA 49.04 RAP 19.05 ECC 1.2259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 25 1883.11 -10.39 21.49 221.28 116.49 4 6 48 1283.1 -6.75 14.70
 90.00 13 35 29 5017.49 23.08 220.76 224.08 73.12 14 59 6 4417.5 20.55 213.00
 100.00 4 53 0 1632.87 -11.31 2.61 220.80 117.85 5 20 12 1032.9 -7.50 355.90
 100.00 15 0 36 4742.97 24.07 200.23 223.73 71.71 16 19 39 4143.0 21.34 192.49
 110.00 5 52 37 1446.15 -13.74 347.02 219.38 121.61 6 16 44 846.1 -9.46 340.53
 110.00 16 17 27 4502.45 26.69 180.90 222.66 67.80 17 32 30 3902.5 23.44 173.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0784 TRA -.2872 TC3 .5537 BAU .3586 SGT 619.7 SGR 1428.7 SG3 454.1 ST 181.5 SR 191.6 SS 667.5
 ROE .1068 RRA .1874 RC3 1.8739 FAU .10509 RRT .4727 RRF -.9691 RTF -.4753 CRT -.9005 CRS .9155 CST -.7260
 FOE -1.1571 FRA -.3569 FC3-6.6269 BSP 4610 SGB 1557.3 R23 -.0644 R13 -.9672 LSA 703.9 MSA 136.2 SSA 35.0
 BOE .1325 BRA .3430 BC3 1.9540 FSP -1398 SG1 1463.2 SG2 533.2 THA 76.60 EL1 257.3 EL2 58.8 ALF 133.28

LAUNCH DATE FEB 8 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 301.636

RL 147.58 LAL .00 LOL 139.06 VL 27.789 GAL -4.81 AZL 91.64 HCA 136.69 SMA 129.30 ECC .16389 INC 1.6416 V1 30.190
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.590 GAP -2.42 AZP 88.81 TAL 205.96 TAP 342.65 RCA 108.11 APO 150.50 V2 34.827
 RC 79.493 GL -12.32 GP 42.56 ZAL 134.95 ZAP 66.10 ETS 339.54 ZAE 135.88 ETE 68.43 ZAC 109.13 ETC 141.57 CLP -56.63

PLANETOCENTRIC CONIC

C3 13.829 VHL 3.719 DLA -10.20 RAL 7.46 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 4.258 DPA 50.95 RAP 14.73 ECC 1.2276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 57 42 1807.81 -8.08 17.17 222.24 117.23 4 27 50 1207.8 -4.36 10.46
 90.00 13 20 4 5095.97 24.53 226.05 225.83 75.39 14 45 0 4496.0 22.29 218.10
 100.00 5 14 0 1561.70 -9.02 358.57 221.73 118.62 5 40 1 961.7 -5.13 351.94
 100.00 14 46 28 4817.32 25.56 205.24 225.52 73.95 16 6 45 4217.3 23.11 197.30
 110.00 6 10 45 1383.95 -11.50 343.60 220.25 122.42 6 33 49 783.9 -7.14 337.22
 110.00 16 6 12 4567.83 28.29 185.30 224.52 69.97 17 22 20 3967.8 25.30 177.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0984 TRA -.3016 TC3 .3597 BAU .3866 SGT 563.4 SGR 1585.6 SG3 462.4 ST 207.6 SR 312.5 SS 758.1
 ROE .1930 RRA .1797 RC3 2.0597 FAU .10566 RRT .2596 RRF -.9760 RTF -.2579 CRT -.8733 CRS .9762 CST -.7716
 FOE -1.3308 FRA -.3079 FC3-6.6150 BSP 5023 SGB 1682.8 R23 -.0299 R13 -.9755 LSA 834.2 MSA 137.0 SSA 29.2
 BOE .2166 BRA .3510 BC3 2.0909 FSP -1438 SG1 1593.2 SG2 541.5 THA 84.04 EL1 365.1 EL2 86.6 ALF 122.15

LAUNCH DATE FEB 8 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.807 GAL -4.78 AZL 92.02 MCA 139.84 SMA 129.43 ECC .16270 INC 2.0181 V1 30.190
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.597 GAP -1.96 AZP 88.46 TAL 206.06 TAP 345.90 RCA 108.37 APO 150.49 V2 34.820
 RC 81.813 GL -15.10 GP 45.75 ZAL 134.32 ZAP 70.72 ETS 342.59 ZAE 133.62 ETE 74.46 ZAC 105.95 ETC 142.36 CLP -61.76

PLANETOCENTRIC CONIC
 C3 14.030 VHL 3.746 DLA -12.76 RAL 8.57 RAD 6567.6 VEL 11.637 PTH 2.04 VMP 4.278 DPA 52.75 RAP 9.89 ECC 1.2309
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 29 1725.31 -5.48 12.50 223.68 117.83 4 52 14 1125.3 -1.71 5.84
 90.00 13 3 11 5184.80 25.92 232.19 228.11 78.17 14 29 36 4584.8 24.02 224.03
 100.00 5 38 14 1484.14 -6.46 354.23 223.15 119.25 6 2 58 884.1 -2.52 347.67
 100.00 14 31 7 4901.21 27.01 211.06 227.84 76.68 15 52 49 4301.2 24.91 202.89
 110.00 6 31 37 1316.93 -9.03 339.98 221.58 123.11 6 53 34 716.9 -4.60 333.68
 110.00 15 54 13 4641.18 29.90 190.41 226.93 72.60 17 11 34 4041.2 27.23 182.24

DIFFERENTIAL CORRECTIONS
 TOE -.1354 TRA -.3172 TC3 .1344 BAU .4170
 ROE .2922 RRA .1614 RC3 2.2190 FAU .10379
 FDE -1.4901 FRA -.2313 FC3 -6.4046 BSP 5462
 BDE .3220 BRA .3559 BC3 2.2231 FSP -1437

MID-COURSE EXECUTION ACCURACY
 SGT 548.3 SGR 1739.8 SG3 460.0
 RRT -.0536 RRF -.9809 RTF .0580
 SGB 1824.2 R23 .0003 R13 -.9809
 SG1 1740.1 SG2 547.4 THA 91.07

ORBIT DETERMINATION ACCURACY
 ST 255.3 SR 456.1 SS 845.2
 CRT -.8910 CRS .9917 CST -.8357
 LSA 983.7 MSA 139.1 SSA 24.0
 EL1 512.4 EL2 103.2 ALF 117.73

LAUNCH DATE FEB 8 1969

FLIGHT TIME 112.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.820 GAL -4.75 AZL 92.45 MCA 143.00 SMA 129.52 ECC .16172 INC 2.4470 V1 30.190
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.600 GAP -1.52 AZP 88.05 TAL 206.05 TAP 349.05 RCA 108.58 APO 150.47 V2 34.813
 RC 84.153 GL -18.20 GP 49.00 ZAL 133.34 ZAP 75.21 ETS 346.03 ZAE 130.98 ETE 80.36 ZAC 102.72 ETC 143.65 CLP -67.10

PLANETOCENTRIC CONIC
 C3 14.366 VHL 3.790 DLA -15.55 RAL 9.97 RAD 6567.6 VEL 11.651 PTH 2.05 VMP 4.353 DPA 54.42 RAP 4.58 ECC 1.2364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 55 1632.83 -2.52 7.32 225.74 118.21 5 21 8 1032.8 1.27 .69
 90.00 12 43 55 5287.76 27.15 239.47 230.99 81.62 14 12 2 4687.8 25.71 231.10
 100.00 6 6 43 1397.93 -3.57 349.46 225.16 119.70 6 30 1 797.9 .41 342.94
 100.00 14 13 48 4997.89 28.34 217.93 230.77 80.07 15 37 6 4397.9 26.68 209.53
 110.00 6 55 58 1243.69 -6.28 336.09 223.48 123.67 7 16 41 643.7 -1.81 329.85
 110.00 15 41 3 4724.90 31.45 196.44 230.01 75.86 16 59 47 4124.9 29.19 187.96

DIFFERENTIAL CORRECTIONS
 TOE -.1916 TRA -.3295 TC3 -.1082 BAU .4509
 ROE .4090 RRA .1332 RC3 2.3452 FAU .09982
 FDE -1.6367 FRA -.1401 FC3 -6.0154 BSP 5997
 BDE .4517 BRA .3554 BC3 2.3477 FSP -1413

MID-COURSE EXECUTION ACCURACY
 SGT 598.2 SGR 1893.9 SG3 448.6
 RRT -.3822 RRF -.9846 RTF .3877
 SGB 1986.1 R23 .0249 R13 -.9844
 SG1 1908.9 SG2 548.4 THA 97.51

ORBIT DETERMINATION ACCURACY
 ST 328.5 SR 623.8 SS 932.1
 CRT -.9219 CRS .9968 CST -.8928
 LSA 1159.9 MSA 141.6 SSA 19.5
 EL1 695.7 EL2 114.1 ALF 116.67

LAUNCH DATE FEB 8 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.828 GAL -4.71 AZL 92.94 MCA 146.15 SMA 129.58 ECC .16091 INC 2.9435 V1 30.190
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.601 GAP -1.09 AZP 87.55 TAL 205.95 TAP 352.10 RCA 108.73 APO 150.43 V2 34.807
 RC 86.508 GL -21.66 GP 52.29 ZAL 131.96 ZAP 79.46 ETS 349.89 ZAE 127.98 ETE 86.04 ZAC 99.48 ETC 145.24 CLP -72.61

PLANETOCENTRIC CONIC
 C3 14.894 VHL 3.859 DLA -18.60 RAL 11.70 RAD 6567.6 VEL 11.674 PTH 2.05 VMP 4.487 DPA 55.96 RAP 358.85 ECC 1.2451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 56 1525.76 .94 1.34 228.60 118.30 5 56 22 925.8 4.71 354.70
 90.00 12 20 40 5410.85 28.05 248.36 234.57 85.98 13 50 51 4810.9 27.20 239.80
 100.00 6 41 2 1299.53 -.24 344.06 227.95 119.89 7 2 42 699.5 3.74 337.53
 100.00 13 53 15 5112.32 29.40 226.27 234.44 84.33 15 18 27 4512.3 28.30 217.64
 110.00 7 24 50 1162.30 -3.19 331.81 226.10 124.05 7 44 12 562.3 1.30 325.60
 110.00 15 25 56 4822.31 32.84 203.69 233.88 79.94 16 46 19 4222.3 31.11 194.90

DIFFERENTIAL CORRECTIONS
 TOE -.2743 TRA -.3367 TC3 -.3613 BAU .4854
 ROE .5419 RRA .0893 RC3 2.4111 FAU .09338
 FDE -1.7538 FRA -.0294 FC3 -5.4277 BSP 6538
 BDE .6074 BRA .3483 BC3 2.4380 FSP -1346

MID-COURSE EXECUTION ACCURACY
 SGT 722.4 SGR 2032.3 SG3 426.2
 RRT -.6270 RRF -.9873 RTF .6323
 SGB 2156.9 R23 .0453 R13 -.9864
 SG1 2086.0 SG2 548.3 THA 103.51

ORBIT DETERMINATION ACCURACY
 ST 437.0 SR 807.6 SS 1010.6
 CRT -.9486 CRS .9987 CST -.9337
 LSA 1357.7 MSA 145.0 SSA 15.8
 EL1 910.0 EL2 122.7 ALF 117.72

LAUNCH DATE FEB 8 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.831 GAL -4.65 AZL 93.53 MCA 149.30 SMA 129.60 ECC .16026 INC 3.5286 V1 30.190
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.598 GAP -.68 AZP 86.96 TAL 205.75 TAP 355.05 RCA 108.83 APO 150.37 V2 34.802
 RC 88.877 GL -25.52 GP 55.63 ZAL 130.14 ZAP 83.40 ETS 354.17 ZAE 124.67 ETE 91.48 ZAC 96.29 ETC 147.11 CLP -78.25

PLANETOCENTRIC CONIC
 C3 15.699 VHL 3.962 DLA -21.94 RAL 13.81 RAD 6567.6 VEL 11.708 PTH 2.06 VMP 4.693 DPA 57.38 RAP 352.76 ECC 1.2584
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 13 1394.70 5.15 354.01 232.57 117.88 6 41 27 794.7 8.84 347.28
 90.00 11 50 14 5565.58 28.27 239.66 238.89 91.64 13 22 59 4965.6 28.20 251.00
 100.00 7 24 1 1182.32 3.73 337.62 231.79 119.68 7 43 43 582.3 7.65 331.03
 100.00 13 27 7 5253.19 29.89 236.71 238.91 89.79 14 54 40 4653.2 29.54 227.92
 110.00 7 59 55 1069.79 .34 326.98 229.68 124.18 8 17 44 469.8 4.83 320.76
 110.00 15 7 42 4938.48 33.87 212.60 238.70 85.11 16 30 1 4338.5 32.83 203.52

DIFFERENTIAL CORRECTIONS
 TOE -.3896 TRA -.3334 TC3 -.6042 BAU .5202
 ROE .6948 RRA .0285 RC3 2.4036 FAU .08496
 FDE -1.8406 FRA .0890 FC3 -4.6852 BSP 7113
 BDE .7966 BRA .3346 BC3 2.4784 FSP -1250

MID-COURSE EXECUTION ACCURACY
 SGT 903.8 SGR 2153.9 SG3 394.9
 RRT -.7711 RRF -.9894 RTF .7760
 SGB 2335.8 R23 .0615 R13 -.9877
 SG1 2271.2 SG2 545.7 THA 109.07

ORBIT DETERMINATION ACCURACY
 ST 584.8 SR 1006.4 SS 1080.2
 CRT -.9668 CRS .9995 CST -.9594
 LSA 1581.0 MSA 148.7 SSA 12.6
 EL1 1156.7 EL2 130.1 ALF 119.74

LAUNCH DATE FEB 8 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 333.337

RL 147.58 LAL .00 LOL 139.06 VL 27.830 GAL -4.59 AZL 94.23 HCA 152.45 SMA 129.60 ECC .15975 INC 4.2328 V1 30.190
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.593 GAP -.29 AZP 86.25 TAL 205.45 TAP 357.90 RCA 108.89 APO 150.30 V2 34.797
 RC 91.256 GL -29.85 GP 59.02 ZAL 127.83 ZAP 86.91 ETS 358.88 ZAE 121.08 ETE 96.68 ZAC 93.18 ETC 149.25 CLP -83.98

PLANETOCENTRIC CONIC

C3 16.925 VHL 4.114 DLA -25.61 RAL 16.38 RAD 6567.7 VEL 11.760 PTH 2.08 VHP 4.986 DPA 58.70 RAP 346.29 ECC 1.2785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 26 1 1210.74 10.87 343.52 238.32 116.31 7 46 12 610.7 14.32 336.54
 90.00 11 2 57 5783.87 26.83 275.45 243.73 99.41 12 39 21 5183.9 27.86 266.93
 100.00 8 22 8 1029.54 8.81 329.12 237.23 118.68 8 39 18 429.5 12.57 322.36
 100.00 12 49 31 5440.30 29.13 250.55 244.10 97.03 14 20 11 4840.3 29.80 241.80
 110.00 8 44 6 960.61 4.51 321.28 234.60 123.92 9 0 7 360.6 8.93 314.98
 110.00 14 44 2 5082.00 34.15 223.78 244.56 91.72 16 8 44 4482.0 34.01 214.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5473 TRA -.3132 TC3 -.8140 BAU .5541 SGT 1124.0 SGR 2256.6 SG3 356.8 ST 776.1 SR 1215.9 SS 1138.5
 RDE .8719 RRA -.0510 RC3 2.3097 FAU .07509 RRT -.8516 RRF -.9911 RTF .8563 CRT -.9783 CRS .9998 CST -.9750
 FDE -1.8954 FRA .2053 FC3 -3.8408 BSP 7738 SGB 2521.1 R23 .0740 R13 -.9886 LSA 1831.4 MSA 151.7 SSA 10.1
 BDE 1.0294 BRA .3173 BC3 2.4489 FSP -1136 SG1 2462.6 SG2 539.9 THA 114.23 EL1 1436.1 EL2 136.0 ALF 122.31

LAUNCH DATE FEB 8 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 339.595

RL 147.58 LAL .00 LOL 139.06 VL 27.826 GAL -4.51 AZL 95.10 HCA 155.59 SMA 129.56 ECC .15937 INC 5.1025 V1 30.190
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.586 GAP .09 AZP 85.35 TAL 205.07 TAP .65 RCA 108.92 APO 150.21 V2 34.793
 RC 93.644 GL -34.66 GP 62.52 ZAL 124.97 ZAP 89.92 ETS 4.05 ZAE 117.22 ETE 101.69 ZAC 90.15 ETC 151.68 CLP -84.82

PLANETOCENTRIC CONIC

C3 18.818 VHL 4.338 DLA -29.60 RAL 19.52 RAD 6567.8 VEL 11.841 PTH 2.10 VHP 5.391 DPA 59.94 RAP 339.38 ECC 1.3097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.01 8 13 19 1115.84 20.83 341.19 247.44 111.51 8 31 55 515.8 23.57 333.48
 98.99 10 40 41 640.09 20.85 306.24 247.45 111.50 10 51 21 40.1 23.58 298.53
 100.00 10 13 5 728.38 18.03 311.53 246.19 114.25 10 25 13 128.4 21.16 304.13
 100.00 11 23 36 5790.83 23.70 275.09 248.58 108.77 13 0 7 5190.8 26.04 267.07
 110.00 9 43 59 820.13 9.79 313.82 241.56 122.92 9 57 39 220.1 14.05 307.32
 110.00 14 9 12 5271.84 32.79 238.41 251.24 100.26 15 37 4 4671.8 33.85 229.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7625 TRA -.2683 TC3 -.9665 BAU .5840 SGT 1372.4 SGR 2328.3 SG3 313.0 ST 1014.8 SR 1421.1 SS 1177.4
 RDE 1.0738 RRA -.1563 RC3 2.1105 FAU .06400 RRT -.8972 RRF -.9924 RTF .9022 CRT -.9853 CRS .9999 CST -.9841
 FDE -1.9097 FRA .3186 FC3 -2.9442 BSP 8330 SGB 2702.7 R23 .0842 R13 -.9892 LSA 2100.4 MSA 154.7 SSA 7.9
 BDE 1.3170 BRA .3106 BC3 2.3213 FSP -.997 SG1 2649.7 SG2 532.5 THA 119.16 EL1 1740.5 EL2 141.4 ALF 125.40

LAUNCH DATE FEB 8 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 345.823

RL 147.58 LAL .00 LOL 139.06 VL 27.817 GAL -4.43 AZL 96.21 HCA 158.72 SMA 129.51 ECC .15903 INC 6.2108 V1 30.190
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.576 GAP .45 AZP 84.21 TAL 204.59 TAP 3.31 RCA 108.90 APO 150.11 V2 34.789
 RC 96.038 GL -39.96 GP 66.20 ZAL 121.54 ZAP 92.35 ETS 9.76 ZAE 113.08 ETE 106.68 ZAC 87.19 ETC 154.52 CLP -95.83

PLANETOCENTRIC CONIC

C3 21.826 VHL 4.672 DLA -33.87 RAL 23.36 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 5.952 DPA 61.12 RAP 331.86 ECC 1.3592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.59 7 16 14 1378.61 22.62 1.91 254.96 115.90 7 39 13 778.6 25.92 354.33
 109.41 12 8 23 5736.10 22.64 270.48 254.96 115.89 13 43 59 5136.1 25.93 262.89
 70.59 7 16 14 1378.61 22.62 1.91 254.96 115.90 7 39 13 778.6 25.92 354.33
 109.41 12 8 23 5736.10 22.64 270.48 254.96 115.89 13 43 59 5136.1 25.93 262.89
 110.00 11 36 47 5832.61 19.46 276.24 253.21 118.67 13 14 0 5232.6 23.13 269.03
 110.00 12 47 1 5618.14 25.88 262.91 256.58 113.16 14 20 39 5018.1 28.78 254.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.0583 TRA -.1849 TC3 -1.0360 BAU .6091 SGT 1642.0 SGR 2370.8 SG3 266.7 ST 1300.8 SR 1609.2 SS 1195.0
 RDE 1.3073 RRA -.2895 RC3 1.8123 FAU .05251 RRT -.9256 RRF -.9936 RTF .9314 CRT -.9898 CRS 1.0000 CST -.9898
 FDE -1.8883 FRA .4170 FC3 -2.0830 BSP 8957 SGB 2883.9 R23 .0907 R13 -.9899 LSA 2384.4 MSA 155.8 SSA 6.2
 BDE 1.6819 BRA .3435 BC3 2.0875 FSP -.853 SG1 2836.7 SG2 519.4 THA 123.96 EL1 2064.1 EL2 144.7 ALF 128.89

LAUNCH DATE FEB 8 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 352.019

RL 147.58 LAL .00 LOL 139.06 VL 27.806 GAL -4.33 AZL 97.68 HCA 161.84 SMA 129.43 ECC .15892 INC 7.6806 V1 30.190
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.565 GAP .80 AZP 82.70 TAL 204.03 TAP 5.87 RCA 108.86 APO 149.99 V2 34.787
 RC 98.436 GL -43.69 GP 70.15 ZAL 117.56 ZAP 94.13 ETS 16.25 ZAE 108.61 ETE 111.97 ZAC 84.25 ETC 158.06 CLP -102.26

PLANETOCENTRIC CONIC

C3 26.822 VHL 5.179 DLA -38.30 RAL 28.07 RAD 6568.1 VEL 12.174 PTH 2.18 VHP 6.740 DPA 62.17 RAP 323.44 ECC 1.4414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.06 6 53 40 1552.48 23.59 16.38 264.49 121.09 7 19 32 952.5 27.53 9.07
 116.94 13 8 34 5663.30 23.60 265.23 264.50 121.08 14 42 57 5063.3 27.54 257.92
 63.06 6 53 40 1552.48 23.59 16.38 264.49 121.09 7 19 32 952.5 27.53 9.07
 116.94 13 8 34 5663.30 23.60 265.23 264.50 121.08 14 42 57 5063.3 27.54 257.92
 63.06 6 53 40 1552.48 23.59 16.38 264.49 121.09 7 19 32 952.5 27.53 9.07
 116.94 13 8 34 5663.30 23.60 265.23 264.50 121.08 14 42 57 5063.3 27.54 257.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.4751 TRA -.0386 TC3 -1.0037 BAU .6233 SGT 1935.7 SGR 2363.5 SG3 219.5 ST 1632.2 SR 1744.2 SS 1183.3
 RDE 1.5661 RRA -.4618 RC3 1.4191 FAU .04091 RRT -.9443 RRF -.9946 RTF .9518 CRT -.9925 CRS 1.0000 CST -.9934
 FDE -1.8263 FRA .5025 FC3 -1.3203 BSP 9516 SGB 3055.0 R23 .0943 R13 -.9908 LSA 2661.3 MSA 154.9 SSA 4.7
 BDE 2.1514 BRA .4634 BC3 1.7382 FSP -700 SG1 3013.9 SG2 499.6 THA 128.99 EL1 2384.3 EL2 145.7 ALF 133.09

LAUNCH DATE FEB 8 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.791 GAL -4.22 AZL 99.73 HCA 164.95 SMA 129.32 ECC .15882 INC 9.7348 V1 30.190
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.553 GAP 1.14 AZP 80.59 TAL 203.37 TAP 8.32 RCA 108.78 APO 149.86 V2 34.785
 RC 100.837 GL -51.67 GP 74.51 ZAL 113.07 ZAP 95.22 ETS 24.23 ZAE 103.71 ETE 118.35 ZAC 81.22 ETC 163.06 CLP-109.89

PLANETOCENTRIC CONIC
 C3 35.692 VHL 5.974 OLA -42.64 RAL 33.83 RAD 6568.4 VEL 12.532 PTH 2.27 VHP 7.892 DPA 62.98 RAP 313.69 ECC 1.5874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.68 6 47 53 1704.87 23.07 28.98 276.28 126.92 7 16 18 1104.9 27.70 22.18
 123.32 14 0 19 5654.32 23.08 264.08 276.29 126.91 15 34 33 5054.3 27.72 257.28
 56.68 6 47 53 1704.87 23.07 28.98 276.28 126.92 7 16 18 1104.9 27.70 22.18
 123.32 14 0 19 5654.32 23.08 264.08 276.29 126.91 15 34 33 5054.3 27.72 257.28
 56.68 6 47 53 1704.87 23.07 28.98 276.28 126.92 7 16 18 1104.9 27.70 22.18
 123.32 14 0 19 5654.32 23.08 264.08 276.29 126.91 15 34 33 5054.3 27.72 257.28

DIFFERENTIAL CORRECTIONS
 TDE-2.0909 TRA .2210 TC3 -.8663 BAU .6202
 RDE 1.8274 RRA -.6740 RC3 .9689 FAU .02986
 FDE-1.7328 FRA .5704 FC3 -.7243 BSP 10091
 BOE 2.7769 BRA .7093 BC3 1.2997 FSP -.556

MID-COURSE EXECUTION ACCURACY
 SGT 2274.9 SGR 2276.8 SG3 174.2
 RRT -.9587 RRF -.9952 RTF .9687
 SGB 3218.6 R23 .0922 R13 -.9923
 SG1 3185.2 SG2 462.4 THA 134.98

ORBIT DETERMINATION ACCURACY
 ST 2007.3 SR 1772.6 SS 1143.4
 CRT -.9944 CRS .9999 CST -.9959
 LSA 2908.0 MSA 148.4 SSA 3.5
 EL1 2674.2 EL2 141.1 ALF 138.57

LAUNCH DATE FEB 8 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 135.06 VL 27.774 GAL -4.09 AZL 102.82 HCA 168.03 SMA 129.20 ECC .15878 INC12.8215 V1 30.190
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.539 GAP 1.45 AZP 77.45 TAL 202.62 TAP 10.64 RCA 108.69 APO 149.72 V2 34.784
 RC 103.240 GL -57.55 GP 79.39 ZAL 108.23 ZAP 95.55 ETS 35.95 ZAE 98.16 ETE 128.22 ZAC 77.91 ETC 171.92 CLP-121.70

PLANETOCENTRIC CONIC
 C3 53.079 VHL 7.286 OLA -46.45 RAL 40.75 RAD 6568.9 VEL 13.208 PTH 2.41 VHP 9.681 DPA 63.21 RAP 302.10 ECC 1.8735
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.51 6 55 32 1856.92 20.27 40.33 290.18 132.74 7 26 28 1256.9 25.57 34.25
 128.49 14 47 50 5701.69 20.28 265.88 290.20 132.73 16 22 51 5101.7 25.58 259.79
 51.51 6 55 32 1856.92 20.27 40.33 290.18 132.74 7 26 28 1256.9 25.57 34.25
 128.49 14 47 50 5701.69 20.28 265.88 290.20 132.73 16 22 51 5101.7 25.58 259.79
 51.51 6 55 32 1856.92 20.27 40.33 290.18 132.74 7 26 28 1256.9 25.57 34.25
 128.49 14 47 50 5701.69 20.28 265.88 290.20 132.73 16 22 51 5101.7 25.58 259.79

DIFFERENTIAL CORRECTIONS
 TDE-3.0814 TRA .7276 TC3 -.6374 BAU .5775
 RDE 1.9334 RRA -.8960 RC3 .5059 FAU .01952
 FDE-1.6182 FRA .6335 FC3 -.3184 BSP 10534
 BOE 3.6377 BRA 1.1543 BC3 .8138 FSP -.421

MID-COURSE EXECUTION ACCURACY
 SGT 2724.9 SGR 1975.1 SG3 132.7
 RRT -.9696 RRF -.9946 RTF .9836
 SGB 3365.4 R23 .0837 R13 -.9942
 SG1 3342.3 SG2 393.7 THA 144.33

ORBIT DETERMINATION ACCURACY
 ST 2436.3 SR 1551.3 SS 1079.9
 CRT -.9953 CRS .9995 CST -.9978
 LSA 3080.7 MSA 132.3 SSA 2.5
 EL1 2885.5 EL2 126.5 ALF 147.56

LAUNCH DATE FEB 8 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.755 GAL -3.95 AZL 107.98 HCA 171.05 SMA 129.07 ECC .15876 INC17.9787 V1 30.190
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.524 GAP 1.74 AZP 72.23 TAL 201.74 TAP 12.79 RCA 108.58 APO 149.56 V2 34.783
 RC 105.643 GL -62.55 GP 84.37 ZAL 103.25 ZAP 95.13 ETS 61.24 ZAE 91.44 ETE 151.56 ZAC 73.87 ETC 194.71 CLP-155.68

PLANETOCENTRIC CONIC
 C3 92.751 VHL 9.631 OLA -48.91 RAL 48.53 RAD 6569.8 VEL 14.632 PTH 2.65 VHP 12.743 DPA 62.15 RAP 288.20 ECC 2.5264
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.29 7 15 27 2015.90 14.65 49.84 305.34 137.21 7 49 3 1415.9 20.44 44.46
 131.71 15 30 2 5805.41 14.67 270.03 305.36 137.21 17 6 47 5205.4 20.46 264.66
 48.29 7 15 27 2015.90 14.65 49.84 305.34 137.21 7 49 3 1415.9 20.44 44.46
 131.71 15 30 2 5805.41 14.67 270.03 305.36 137.21 17 6 47 5205.4 20.46 264.66
 48.29 7 15 27 2015.90 14.65 49.84 305.34 137.21 7 49 3 1415.9 20.44 44.46
 131.71 15 30 2 5805.41 14.67 270.03 305.36 137.21 17 6 47 5205.4 20.46 264.66

DIFFERENTIAL CORRECTIONS
 TDE-4.8554 TRA 1.8394 TC3 -.3425 BAU .4434
 RDE .7922 RRA -.6846 RC3 .1026 FAU .00993
 FDE-1.5288 FRA .7152 FC3 -.0927 BSP 11015
 BOE 4.9196 BRA 1.9626 BC3 .3576 FSP -.312

MID-COURSE EXECUTION ACCURACY
 SGT 3398.8 SGR 803.3 SG3 97.7
 RRT -.9244 RRF -.9527 RTF .9949
 SGB 3492.4 R23 .0676 R13 -.9963
 SG1 3479.6 SG2 299.3 THA 167.58

ORBIT DETERMINATION ACCURACY
 ST 2931.5 SR 506.7 SS 1024.0
 CRT -.9792 CRS .9864 CST -.9992
 LSA 3144.5 MSA 106.5 SSA 1.8
 EL1 2973.3 EL2 101.5 ALF 170.38

LAUNCH DATE FEB 8 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.733 GAL -3.76 AZL 118.14 HCA 173.93 SMA 128.92 ECC .15863 INC28.1371 V1 30.190
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.508 GAP 1.98 AZP 62.00 TAL 200.65 TAP 14.58 RCA 108.47 APO 149.36 V2 34.783
 RC 108.045 GL -64.73 GP 82.01 ZAL 98.43 ZAP 93.98 ETS 126.73 ZAE 82.17 ETE 215.13 ZAC 67.96 ETC 258.68 CLP 120.00

PLANETOCENTRIC CONIC
 C3 208.261 VHL 14.431 OLA -48.36 RAL 55.80 RAD 6571.2 VEL 18.154 PTH 3.02 VHP 18.833 DPA 58.08 RAP 271.96 ECC 4.4274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.00 7 46 49 2160.85 6.97 55.57 319.55 137.98 8 22 50 1560.8 12.87 50.50
 131.00 15 56 38 673.93 6.98 299.01 319.56 137.98 16 7 52 73.9 12.89 293.94
 49.00 7 46 49 2160.85 6.97 55.57 319.55 137.98 8 22 50 1560.8 12.87 50.50
 131.00 15 56 38 673.93 6.98 299.01 319.56 137.98 16 7 52 73.9 12.89 293.94
 49.00 7 46 49 2160.85 6.97 55.57 319.55 137.98 8 22 50 1560.8 12.87 50.50
 131.00 15 56 38 673.93 6.98 299.01 319.56 137.98 16 7 52 73.9 12.89 293.94

DIFFERENTIAL CORRECTIONS
 TDE-2.7343 TRA 2.6367 TC3 -.0258 BAU .0974
 RDE-6.5333 RRA 2.5407 RC3 .0237 FAU-.00154
 FDE-1.5730 FRA .9152 FC3 .0064 BSP 11089
 BOE 7.0824 BRA 3.6616 BC3 .0350 FSP -.227

MID-COURSE EXECUTION ACCURACY
 SGT 1914.9 SGR 3006.3 SG3 71.7
 RRT .9038 RRF .9821 RTF .9675
 SGB 3564.4 R23 -.0654 R13 .9975
 SG1 3493.9 SG2 705.0 THA 58.65

ORBIT DETERMINATION ACCURACY
 ST 1184.0 SR 2633.6 SS 1050.7
 CRT .9721 CRS -.9966 CST -.9882
 LSA 3061.9 MSA 258.1 SSA 1.0
 EL1 2876.3 EL2 254.4 ALF 66.20

LAUNCH DATE FEB 8 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.709 GAL -3.46 AZL 143.46 HCA 176.32 SMA 128.75 ECC .15794 INC53.4610 V1 30.190
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.492 GAP 2.07 AZP 36.60 TAL 198.99 TAP 15.32 RCA 108.42 APO 149.08 V2 34.784
 RC 110.446 GL -58.04 GP 66.42 ZAL 94.31 ZAP 92.36 ETS 166.40 ZAE 65.55 ETE 252.84 ZAC 56.50 ETC 300.57 CLP 95.91

PLANETOCENTRIC CONIC
 C3 685.993 VHL 26.191 OLA -39.83 RAL 58.60 RAD 6572.7 VEL 28.413 PTH 3.42 VHP 33.519 OPA 45.74 RAP 254.31 ECC12.2897
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.72 8 44 19 2160.99 .61 49.46 327.85 129.83 9 20 20 1561.0 5.72 43.71
 119.28 15 21 28 920.17 .63 315.10 327.86 129.83 15 36 48 320.2 5.74 309.35
 60.72 8 44 19 2160.99 .61 49.46 327.85 129.83 9 20 20 1561.0 5.72 43.71
 119.28 15 21 28 920.17 .63 315.10 327.86 129.83 15 36 48 320.2 5.74 309.35
 60.72 8 44 19 2160.99 .61 49.46 327.85 129.83 9 20 20 1561.0 5.72 43.71
 119.28 15 21 28 920.17 .63 315.10 327.86 129.83 15 36 48 320.2 5.74 309.35

DIFFERENTIAL CORRECTIONS
 TDE 3.3934 TRA .7387 TC3 -.0469 BAU 1.8433 SGT 809.8 SGR 3317.9 SG3 57.0 ORBIT DETERMINATION ACCURACY
 RD-10.4301 RRA 7.6539 RC3 .1954 FAU-.03006 RRT -.5533 RRF .9995 RTF -.5254 CRT -.9345 CRS -.9998 CST .9278
 FDE-2.0125 FRA 1.5800 FC3 .0379 BSP 10523 SGB 3415.3 R23 -.0611 R13 .9981 LSA 2810.8 MSA 260.8 SSA .3
 BOE10.9682 BRA 7.6895 BC3 .2010 FSP -181 SG1 3349.3 SG2 668.2 THA 98.01 EL1 2474.9 EL2 254.4 ALF 106.53

LAUNCH DATE FEB 8 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.683 GAL -4.10 AZL 17.72 HCA 183.19 SMA 128.57 ECC .16386 INC72.2772 V1 30.190
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.474 GAP 3.45 AZP 162.25 TAL 201.77 TAP 24.96 RCA 107.50 APO 149.64 V2 34.786
 RC 112.844 GL 50.22 GP -57.42 ZAL 93.81 ZAP 93.13 ETS 179.20 ZAE 59.14 ETE 95.11 ZAC 75.69 ETC 54.78 CLP 95.82

PLANETOCENTRIC CONIC
 C31171.487 VHL 34.227 OLA 61.52 RAL 11.53 RAD 6573.1 VEL 35.955 PTH 3.53 VHP 41.908 OPA -69.10 RAP 191.02 ECC20.2797
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.80 16 2 1 5053.80 .76 241.76 281.96 28.49 17 26 15 4453.8 -6.26 238.34
 147.20 1 48 16 3369.48 .77 102.80 281.94 28.49 2 44 25 2769.5 -6.26 99.39
 32.80 16 2 1 5053.80 .76 241.76 281.96 28.49 17 26 15 4453.8 -6.26 238.34
 147.20 1 48 16 3369.48 .77 102.80 281.94 28.49 2 44 25 2769.5 -6.26 99.39
 32.80 16 2 1 5053.80 .76 241.76 281.96 28.49 17 26 15 4453.8 -6.26 238.34
 147.20 1 48 16 3369.48 .77 102.80 281.94 28.49 2 44 25 2769.5 -6.26 99.39

DIFFERENTIAL CORRECTIONS
 TDE-4.3917 TRA 2.1030 TC3 -.1012 BAU 3.6141 SGT 1251.2 SGR 3062.7 SG3 55.2 ORBIT DETERMINATION ACCURACY
 RD-15.9069 RRA 1.4919 RC3 -.2074 FAU-.05726 RRT -.8684 RRF -.9999 RTF -.8672 CRT .9728 CRS 1.0000 CST .9729
 FDE 3.3342 FRA -.3155 FC3 .0423 BSP 9939 SGB 3308.4 R23 -.0682 R13 -.9976 LSA 3431.7 MSA 173.6 SSA .8
 BOE16.5021 BRA 2.5785 BC3 .2308 FSP -175 SG1 3256.5 SG2 583.4 THA 69.79 EL1 2770.9 EL2 171.4 ALF 74.29

LAUNCH DATE FEB 8 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.656 GAL -3.69 AZL 52.93 HCA 185.18 SMA 128.38 ECC .16251 INC37.0662 V1 30.190
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.456 GAP 3.41 AZP 126.95 TAL 199.67 TAP 24.85 RCA 107.52 APO 149.25 V2 34.789
 RC 115.239 GL 63.13 GP -77.20 ZAL 96.40 ZAP 95.85 ETS 191.57 ZAE 80.53 ETE 107.25 ZAC 91.47 ETC 70.13 CLP 117.38

PLANETOCENTRIC CONIC
 C3 347.735 VHL 18.648 OLA 67.07 RAL 342.31 RAD 6571.9 VEL 21.657 PTH 3.22 VHP 22.329 OPA -77.30 RAP 114.82 ECC 6.7228
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.27 13 50 11 4994.06 -4.47 243.52 250.42 23.01 15 13 25 4394.1 -11.83 240.75
 153.73 0 6 55 3260.94 -4.47 97.12 250.40 23.01 1 1 16 2660.9 -11.82 94.35
 26.27 13 50 11 4994.06 -4.47 243.52 250.42 23.01 15 13 25 4394.1 -11.83 240.75
 153.73 0 6 55 3260.94 -4.47 97.12 250.40 23.01 1 1 16 2660.9 -11.82 94.35
 26.27 13 50 11 4994.06 -4.47 243.52 250.42 23.01 15 13 25 4394.1 -11.83 240.75
 153.73 0 6 55 3260.94 -4.47 97.12 250.40 23.01 1 1 16 2660.9 -11.82 94.35

DIFFERENTIAL CORRECTIONS
 TDE 1.0487 TRA .9928 TC3 -.0387 BAU .6702 SGT 858.8 SGR 3745.3 SG3 67.9 ORBIT DETERMINATION ACCURACY
 RDE-8.4289 RRA 3.3678 RC3 -.1389 FAU-.00835 RRT .4102 RRF -.9982 RTF -.3643 CRT -.5991 CRS .9997 CST -.6185
 FDE 1.8579 FRA -.6783 FC3 .0208 BSP 11886 SGB 3842.5 R23 -.0697 R13 -.9970 LSA 2951.0 MSA 318.4 SSA 1.5
 BOE 8.4938 BRA 3.5111 BC3 .1442 FSP -218 SG1 3762.6 SG2 779.6 THA 84.39 EL1 2720.3 EL2 318.0 ALF 95.11

LAUNCH DATE FEB 8 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.627 GAL -3.45 AZL 66.34 HCA 187.97 SMA 128.19 ECC .16254 INC23.6645 V1 30.190
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.438 GAP 3.59 AZP 113.46 TAL 198.28 TAP 26.24 RCA 107.35 APO 149.02 V2 34.792
 RC 117.630 GL 64.39 GP -80.33 ZAL 99.19 ZAP 99.63 ETS 252.27 ZAE 91.54 ETE 167.86 ZAC 98.66 ETC 131.74 CLP 174.75

PLANETOCENTRIC CONIC
 C3 150.672 VHL 12.275 OLA 65.01 RAL 335.32 RAD 6570.6 VEL 16.492 PTH 2.87 VHP 14.381 OPA -71.36 RAP 76.64 ECC 3.4797
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.67 13 27 46 4866.25 -11.77 239.01 239.76 25.56 14 48 52 4266.2 -18.96 235.79
 151.33 23 29 41 3149.41 -11.76 95.27 239.74 25.56 24 22 11 2549.4 -18.95 92.05
 28.67 13 27 46 4866.25 -11.77 239.01 239.76 25.56 14 48 52 4266.2 -18.96 235.79
 151.33 23 29 41 3149.41 -11.76 95.27 239.74 25.56 24 22 11 2549.4 -18.95 92.05
 28.67 13 27 46 4866.25 -11.77 239.01 239.76 25.56 14 48 52 4266.2 -18.96 235.79
 151.33 23 29 41 3149.41 -11.76 95.27 239.74 25.56 24 22 11 2549.4 -18.95 92.05

DIFFERENTIAL CORRECTIONS
 TDE 4.5092 TRA-2.2421 TC3 -.0916 BAU .1970 SGT 3258.8 SGR 2357.0 SG3 91.8 ORBIT DETERMINATION ACCURACY
 RDE-1.9418 RRA 1.9674 RC3 .0342 FAU .00870 RRT -.9522 RRF -.9531 RTF .9988 CRT -.9599 CRS .9619 CST -1.0000
 FDE 1.4432 FRA -.7347 FC3 -.0500 BSP 12639 SGB 4021.8 R23 -.0981 R13 -.9940 LSA 2634.5 MSA 284.7 SSA 1.8
 BOE 4.9095 BRA 2.9829 BC3 .0978 FSP -299 SG1 3978.3 SG2 590.0 THA 144.55 EL1 2479.9 EL2 281.9 ALF 153.99

LAUNCH DATE FEB 8 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.597 GAL -3.24 AZL 72.66 HCA 190.96 SMA 127.98 ECC .16298 INC17.3420 V1 30.190
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.419 GAP 3.83 AZP 107.04 TAL 197.04 TAP 28.00 RCA 107.12 APO 148.84 V2 34.796
 RC 120.015 GL 62.32 GP -74.88 ZAL 101.55 ZAP 103.91 ETS 295.31 ZAE 98.98 ETE 210.23 ZAC 102.94 ETC 175.07 CLP-157.16

PLANETOCENTRIC CONIC
 C3 86.016 VHL 9.274 DLA 62.41 RAL 336.85 RAD 6569.7 VEL 14.400 PTH 2.62 VHP 10.699 DPA -65.04 RAP 61.31 ECC 2.4156
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.75 13 41 7 4740.52 -18.31 233.33 236.91 29.20 15 0 8 4140.5 -25.24 229.45
 148.25 23 28 33 3047.35 -18.30 93.13 236.89 29.20 24 19 20 2447.4 -25.23 89.24
 31.75 13 41 7 4740.52 -18.31 233.33 236.91 29.20 15 0 8 4140.5 -25.24 229.45
 148.25 23 28 33 3047.35 -18.30 93.13 236.89 29.20 24 19 20 2447.4 -25.23 89.24
 31.75 13 41 7 4740.52 -18.31 233.33 236.91 29.20 15 0 8 4140.5 -25.24 229.45
 148.25 23 28 33 3047.35 -18.30 93.13 236.89 29.20 24 19 20 2447.4 -25.23 89.24

MID-COURSE EXECUTION ACCURACY
 SGT 4079.5 SGR 643.2 SG3 123.4
 RRT .8335 RRF .8983 RTF .9892
 SGB 4129.9 R23 .1224 R13 .9906
 SG1 4114.9 S22 352.3 THA 7.54

ORBIT DETERMINATION ACCURACY
 ST 2431.3 SR 583.9 SS 883.8
 CRT .9545 CRS -.9779 CST -.9958
 LSA 2645.9 MSA 181.2 SSA 2.2
 EL1 2494.7 EL2 169.7 ALF 12.97

DIFFERENTIAL CORRECTIONS
 TDE 3.5863 TRA-2.5019 TC3 -.4175 BAU .4888
 RDE .9382 RRA -.1771 RC3 -.0799 FAU .02019
 FDE 1.4630 FRA -.7797 FC3 -.2032 BSP 13060
 BDE 3.7070 BRA 2.5082 BC3 .4251 FSP -407

LAUNCH DATE FEB 8 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.566 GAL -3.04 AZL 76.27 HCA 194.03 SMA 127.77 ECC .16364 INC13.7304 V1 30.190
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.400 GAP 4.08 AZP 103.34 TAL 195.85 TAP 29.88 RCA 106.86 APO 148.68 V2 34.800
 RC 122.394 GL 59.36 GP -68.49 ZAL 103.38 ZAP 108.43 ETS 305.40 ZAE 104.79 ETE 219.05 ZAC 106.06 ETC 185.01 CLP-149.56

PLANETOCENTRIC CONIC
 C3 57.670 VHL 7.594 DLA 59.94 RAL 340.56 RAD 6569.0 VEL 13.380 PTH 2.45 VHP 8.701 DPA -59.08 RAP 52.62 ECC 1.9491
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.68 14 3 10 4633.43 -23.28 227.50 236.15 33.05 15 20 23 4033.4 -29.91 222.90
 145.32 23 36 5 2966.04 -23.27 90.82 236.13 33.05 24 25 31 2366.0 -29.89 86.22
 34.68 14 3 10 4633.43 -23.28 227.50 236.15 33.05 15 20 23 4033.4 -29.91 222.90
 145.32 23 36 5 2966.04 -23.27 90.82 236.13 33.05 24 25 31 2366.0 -29.89 86.22
 34.68 14 3 10 4633.43 -23.28 227.50 236.15 33.05 15 20 23 4033.4 -29.91 222.90
 145.32 23 36 5 2966.04 -23.27 90.82 236.13 33.05 24 25 31 2366.0 -29.89 86.22

MID-COURSE EXECUTION ACCURACY
 SGT 4161.8 SGR 1264.6 SG3 165.8
 RRT .9652 RRF .9915 RTF .9859
 SGB 4349.7 R23 .1312 R13 .9890
 SG1 4338.1 SG2 317.1 THA 16.44

ORBIT DETERMINATION ACCURACY
 ST 2328.5 SR 905.8 SS 905.1
 CRT .9836 CRS -.9972 CST -.9943
 LSA 2652.1 MSA 168.1 SSA 2.8
 EL1 2493.9 EL2 152.5 ALF 21.02

DIFFERENTIAL CORRECTIONS
 TDE 2.7830 TRA-2.2260 TC3 -.8513 BAU .6960
 RDE 1.1585 RRA -.5258 RC3 -.3004 FAU .03411
 FDE 1.5042 FRA -.8887 FC3 -.5120 BSP 16501
 BDE 3.0145 BRA 2.2873 BC3 .9028 FSP -695

LAUNCH DATE FEB 8 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.533 GAL -2.83 AZL 78.60 HCA 197.13 SMA 127.55 ECC .16441 INC11.3994 V1 30.190
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.381 GAP 4.34 AZP 100.91 TAL 194.62 TAP 31.75 RCA 106.58 APO 148.52 V2 34.805
 RC 124.766 GL 56.26 GP -62.43 ZAL 104.66 ZAP 112.96 ETS 308.84 ZAE 109.56 ETE 220.63 ZAC 108.61 ETC 187.93 CLP-147.44

PLANETOCENTRIC CONIC
 C3 42.723 VHL 6.536 DLA 57.73 RAL 344.76 RAD 6568.6 VEL 12.810 PTH 2.33 VHP 7.508 DPA -53.43 RAP 47.04 ECC 1.7031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.34 14 26 47 4545.59 -26.83 221.94 236.15 36.76 15 42 32 3945.6 -33.12 216.65
 142.66 23 45 58 2904.40 -26.82 88.60 236.13 36.75 24 34 22 2304.4 -33.11 83.31
 37.34 14 26 47 4545.59 -26.83 221.94 236.15 36.76 15 42 32 3945.6 -33.12 216.65
 142.66 23 45 58 2904.40 -26.82 88.60 236.13 36.75 24 34 22 2304.4 -33.11 83.31
 37.34 14 26 47 4545.59 -26.83 221.94 236.15 36.76 15 42 32 3945.6 -33.12 216.65
 142.66 23 45 58 2904.40 -26.82 88.60 236.13 36.75 24 34 22 2304.4 -33.11 83.31

MID-COURSE EXECUTION ACCURACY
 SGT 4072.3 SGR 1314.8 SG3 193.5
 RRT .9529 RRF .9900 RTF .9764
 SGB 4279.3 R23 .1691 R13 .9815
 SG1 4262.2 SG2 381.1 THA 17.24

ORBIT DETERMINATION ACCURACY
 ST 2446.5 SR 1028.1 SS 1005.2
 CRT .9838 CRS -.9985 CST -.9922
 LSA 2831.1 MSA 193.6 SSA 3.5
 EL1 2648.2 EL2 170.1 ALF 22.56

DIFFERENTIAL CORRECTIONS
 TDE 2.5918 TRA-1.8405 TC3-1.1583 BAU .6970
 RDE 1.1494 RRA -.4139 RC3 -.3839 FAU .03920
 FDE 1.7107 FRA -.7913 FC3 -.7944 BSP 13259
 BDE 2.8352 BRA 1.8865 BC3 1.2203 FSP -630

LAUNCH DATE FEB 8 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.500 GAL -2.61 AZL 80.23 HCA 200.25 SMA 127.32 ECC .16532 INC 9.7670 V1 30.190
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.362 GAP 4.60 AZP 99.17 TAL 193.39 TAP 33.64 RCA 106.27 APO 148.37 V2 34.811
 RC 127.128 GL 53.25 GP -56.84 ZAL 105.46 ZAP 117.39 ETS 310.41 ZAE 113.53 ETE 219.89 ZAC 110.81 ETC 188.70 CLP-147.27

PLANETOCENTRIC CONIC
 C3 33.831 VHL 5.816 DLA 55.75 RAL 348.96 RAD 6568.3 VEL 12.458 PTH 2.25 VHP 6.758 DPA -48.11 RAP 43.24 ECC 1.5568
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.74 14 50 2 4473.51 -29.28 216.80 236.53 40.19 16 4 36 3873.5 -35.24 210.90
 140.26 0 0 8 2858.62 -29.27 86.61 236.51 40.18 0 47 47 2258.6 -35.23 80.71
 39.74 14 50 2 4473.51 -29.28 216.80 236.53 40.19 16 4 36 3873.5 -35.24 210.90
 140.26 0 0 8 2858.62 -29.27 86.61 236.51 40.18 0 47 47 2258.6 -35.23 80.71
 39.74 14 50 2 4473.51 -29.28 216.80 236.53 40.19 16 4 36 3873.5 -35.24 210.90
 140.26 0 0 8 2858.62 -29.27 86.61 236.51 40.18 0 47 47 2258.6 -35.23 80.71

MID-COURSE EXECUTION ACCURACY
 SGT 4161.4 SGR 1302.5 SG3 226.0
 RRT .9528 RRF .9898 RTF .9720
 SGB 4360.5 R23 .1839 R13 .9772
 SG1 4344.0 SG2 378.7 THA 16.74

ORBIT DETERMINATION ACCURACY
 ST 2522.1 SR 1020.0 SS 1057.6
 CRT .9852 CRS -.9991 CST -.9916
 LSA 2912.5 MSA 193.1 SSA 4.3
 EL1 2715.7 EL2 162.6 ALF 21.81

DIFFERENTIAL CORRECTIONS
 TDE 2.4046 TRA-1.6464 TC3-1.5858 BAU .7511
 RDE 1.0191 RRA -.3429 RC3 -.4929 FAU .04729
 FDE 1.7938 FRA -.7527 FC3-1.2100 BSP 13590
 BDE 2.6116 BRA 1.6817 BC3 1.6606 FSP -746

LAUNCH DATE FEB 8 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 431.851

RL 147.58 LAL .00 LOL 139.06 VL 27.465 GAL -2.39 AZL 81.44 HCA 203.39 SMA 127.09 ECC .16635 INC 8.5553 V1 30.190
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.343 GAP 4.87 AZP 97.86 TAL 192.13 TAP 35.52 RCA 105.95 APO 148.24 V2 34.818
 RC 129.481 GL 50.40 GP -51.77 ZAL 105.81 ZAP 121.62 ETS 311.35 ZAE 116.80 ETE 218.18 ZAC 112.79 ETC 188.65 CLP-147.91

PLANETOCENTRIC CONIC

C3 28.067 VHL 5.298 DLA 54.01 RAL 353.06 RAD 6568.1 VEL 12.225 PTH 2.20 VHP 6.275 DPA -43.15 RAP 40.66 ECC 1.4619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.88 15 12 26 4413.82 -30.95 212.15 237.25 43.26 16 26 0 3813.8 -36.60 205.75
 138.12 0 10 27 2824.54 -30.94 84.89 237.23 43.25 0 57 32 2224.5 -36.59 78.49
 41.88 15 12 26 4413.82 -30.95 212.15 237.25 43.26 16 26 0 3813.8 -36.60 205.75
 138.12 0 10 27 2824.54 -30.94 84.89 237.23 43.25 0 57 32 2224.5 -36.59 78.49
 41.88 15 12 26 4413.82 -30.95 212.15 237.25 43.26 16 26 0 3813.8 -36.60 205.75
 138.12 0 10 27 2824.54 -30.94 84.89 237.23 43.25 0 57 32 2224.5 -36.59 78.49

DIFFERENTIAL CORRECTIONS

TOE 2.2828 TRA-1.4851 TC3-2.0348 BAU .7927
 RDE .8935 RRA -.2696 RC3 -.5680 FAU .05386
 FDE 1.8339 FRA -.6825 FC3-1.6614 BSP 13926
 BOE 2.4514 BRA 1.5094 BC3 2.1126 FSP -847

MID-COURSE EXECUTION ACCURACY

SGT 4267.7 SGR 1241.8 SG3 253.5
 RRT .9508 RRF .9877 RTF .9682
 SGB 4444.7 R23 .1940 R13 .9730
 SG1 4429.2 SG2 370.6 THA 15.58

ORBIT DETERMINATION ACCURACY

ST 2602.2 SR 977.9 SS 1094.9
 CRT .9859 CRS -.9994 CST -.9912
 LSA 2981.6 MSA 191.1 SSA 5.2
 EL1 2775.7 EL2 153.2 ALF 20.39

LAUNCH DATE FEB 8 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 437.818

RL 147.58 LAL .00 LOL 139.06 VL 27.430 GAL -2.16 AZL 82.38 HCA 206.53 SMA 126.86 ECC .16750 INC 7.6160 V1 30.190
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.324 GAP 5.13 AZP 96.82 TAL 190.85 TAP 37.38 RCA 105.61 APO 148.11 V2 34.825
 RC 131.823 GL 47.75 GP -47.21 ZAL 105.75 ZAP 125.58 ETS 312.05 ZAE 119.46 ETE 216.05 ZAC 114.65 ETC 188.26 CLP-148.92

PLANETOCENTRIC CONIC

C3 24.090 VHL 4.908 DLA 52.49 RAL 357.06 RAD 6568.0 VEL 12.061 PTH 2.16 VHP 5.964 DPA -38.56 RAP 38.94 ECC 1.3965
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.77 15 33 57 4363.77 -32.09 208.02 238.30 45.95 16 46 41 3763.8 -37.45 201.20
 136.23 0 20 51 2798.99 -32.07 83.44 238.29 45.94 1 7 30 2199.0 -37.43 76.62
 43.77 15 33 57 4363.77 -32.09 208.02 238.30 45.95 16 46 41 3763.8 -37.45 201.20
 136.23 0 20 51 2798.99 -32.07 83.44 238.29 45.94 1 7 30 2199.0 -37.43 76.62
 43.77 15 33 57 4363.77 -32.09 208.02 238.30 45.95 16 46 41 3763.8 -37.45 201.20
 136.23 0 20 51 2798.99 -32.07 83.44 238.29 45.94 1 7 30 2199.0 -37.43 76.62

DIFFERENTIAL CORRECTIONS

TDE 2.1989 TRA-1.3383 TC3-2.4910 BAU .8259
 RDE .7853 RRA -.2040 RC3 -.6098 FAU .05863
 FDE 1.8359 FRA -.5846 FC3-2.1070 BSP 14216
 BOE 2.3350 BRA 1.3538 BC3 2.5645 FSP -923

MID-COURSE EXECUTION ACCURACY

SGT 4376.2 SGR 1162.6 SG3 275.0
 RRT .9474 RRF .9841 RTF .9647
 SGB 4528.0 R23 .1998 R13 .9689
 SG1 4513.6 SG2 360.7 THA 14.22

ORBIT DETERMINATION ACCURACY

ST 2680.9 SR 924.3 SS 1118.3
 CRT .9866 CRS -.9996 CST -.9908
 LSA 3042.4 MSA 188.5 SSA 6.1
 EL1 2832.7 EL2 143.0 ALF 18.84

LAUNCH DATE FEB 8 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 443.777

RL 147.58 LAL .00 LOL 139.06 VL 27.395 GAL -1.92 AZL 83.14 HCA 209.68 SMA 126.62 ECC .16876 INC 6.8627 V1 30.190
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.305 GAP 5.39 AZP 95.97 TAL 189.54 TAP 39.22 RCA 105.25 APO 147.99 V2 34.833
 RC 134.153 GL 45.26 GP -43.14 ZAL 105.31 ZAP 129.24 ETS 312.64 ZAE 121.60 ETE 213.76 ZAC 116.42 ETC 187.73 CLP-150.11

PLANETOCENTRIC CONIC

C3 21.216 VHL 4.606 DLA 51.16 RAL .99 RAD 6567.9 VEL 11.941 PTH 2.13 VHP 5.768 DPA -34.34 RAP 37.87 ECC 1.3492
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.43 15 54 45 4321.29 -32.85 204.36 239.68 48.29 17 6 46 3721.3 -37.95 197.21
 134.57 0 31 27 2779.75 -32.84 82.24 239.67 48.28 1 17 47 2179.8 -37.94 75.09
 45.43 15 54 45 4321.29 -32.85 204.36 239.68 48.29 17 6 46 3721.3 -37.95 197.21
 134.57 0 31 27 2779.75 -32.84 82.24 239.67 48.28 1 17 47 2179.8 -37.94 75.09
 45.43 15 54 45 4321.29 -32.85 204.36 239.68 48.29 17 6 46 3721.3 -37.95 197.21
 134.57 0 31 27 2779.75 -32.84 82.24 239.67 48.28 1 17 47 2179.8 -37.94 75.09

DIFFERENTIAL CORRECTIONS

TDE 2.1378 TRA-1.1993 TC3-2.9510 BAU .8557
 RDE .6949 RRA -.1491 RC3 -.6265 FAU .06182
 FDE 1.8060 FRA -.4689 FC3-2.5228 BSP 14506
 BOE 2.2479 BRA 1.2086 BC3 3.0168 FSP -978

MID-COURSE EXECUTION ACCURACY

SGT 4485.6 SGR 1080.6 SG3 290.6
 RRT .9430 RRF .9790 RTF .9614
 SGB 4613.9 R23 .2008 R13 .9650
 SG1 4600.6 SG2 350.5 THA 12.88

ORBIT DETERMINATION ACCURACY

ST 2754.5 SR 869.1 SS 1128.8
 CRT .9872 CRS -.9997 CST -.9904
 LSA 3095.6 MSA 185.6 SSA 7.1
 EL1 2885.4 EL2 132.3 ALF 17.34

LAUNCH DATE FEB 8 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 449.725

RL 147.58 LAL .00 LOL 139.06 VL 27.359 GAL -1.67 AZL 83.76 HCA 212.83 SMA 126.38 ECC .17015 INC 6.2418 V1 30.190
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.286 GAP 5.65 AZP 95.25 TAL 188.21 TAP 41.04 RCA 104.88 APO 147.89 V2 34.841
 RC 136.471 GL 42.92 GP -39.53 ZAL 104.54 ZAP 132.62 ETS 313.17 ZAE 123.30 ETE 211.46 ZAC 118.15 ETC 187.16 CLP-151.38

PLANETOCENTRIC CONIC

C3 19.066 VHL 4.366 DLA 50.00 RAL 4.90 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 5.654 DPA -30.48 RAP 37.30 ECC 1.3138
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.90 16 15 0 4284.94 -33.36 201.14 241.38 50.32 17 26 25 3684.9 -38.23 193.72
 133.10 0 42 23 2765.19 -33.35 81.27 241.37 50.31 1 28 29 2165.2 -38.21 73.85
 46.90 16 15 0 4284.94 -33.36 201.14 241.38 50.32 17 26 25 3684.9 -38.23 193.72
 133.10 0 42 23 2765.19 -33.35 81.27 241.37 50.31 1 28 29 2165.2 -38.21 73.85
 46.90 16 15 0 4284.94 -33.36 201.14 241.38 50.32 17 26 25 3684.9 -38.23 193.72
 133.10 0 42 23 2765.19 -33.35 81.27 241.37 50.31 1 28 29 2165.2 -38.21 73.85

DIFFERENTIAL CORRECTIONS

TDE 2.0914 TRA-1.0636 TC3-3.4072 BAU .8829
 RDE .6205 RRA -.1045 RC3 -.6236 FAU .06359
 FDE 1.7517 FRA -.3439 FC3-2.8873 BSP 14803
 BOE 2.1815 BRA 1.0687 BC3 3.4638 FSP -1015

MID-COURSE EXECUTION ACCURACY

SGT 4593.3 SGR 1002.5 SG3 301.0
 RRT .9377 RRF .9720 RTF .9584
 SGB 4701.4 R23 .1967 R13 .9615
 SG1 4689.0 SG2 341.2 THA 11.63

ORBIT DETERMINATION ACCURACY

ST 2821.9 SR 816.9 SS 1128.2
 CRT .9880 CRS -.9998 CST -.9900
 LSA 3141.7 MSA 182.3 SSA 8.2
 EL1 2935.3 EL2 121.2 ALF 15.99

LAUNCH DATE FEB 8 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 455.662

RL 147.58 LAL .00 LOL 139.06 VL 27.322 GAL -1.41 AZL 84.28 HCA 215.99 SMA 126.14 ECC .17166 INC 5.7185 V1 30.190
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.268 GAP 5.92 AZP 94.63 TAL 186.85 TAP 42.84 RCA 104.49 APO 147.80 V2 34.850
 RC 138.775 GL 40.70 GP -36.33 ZAL 103.46 ZAP 135.70 ETS 313.65 ZAE 124.63 ETE 209.25 ZAC 119.87 ETC 186.61 CLP-152.67

PLANETOCENTRIC CONIC

C3 17.418 VHL 4.173 DLA 48.98 RAL 8.82 RAD 6567.7 VEL 11.781 PTH 2.08 VHP 5.599 DPA -26.96 RAP 37.13 ECC 1.2866
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.21 16 34 55 4253.58 -33.68 198.29 243.40 52.07 17 45 49 3653.6 -38.34 190.66
 131.79 0 53 44 2754.30 -33.67 80.48 243.39 52.06 1 39 38 2154.3 -38.33 72.86
 48.21 16 34 55 4253.58 -33.68 198.29 243.40 52.07 17 45 49 3653.6 -38.34 190.66
 131.79 0 53 44 2754.30 -33.67 80.48 243.39 52.06 1 39 38 2154.3 -38.33 72.86
 48.21 16 34 55 4253.58 -33.68 198.29 243.40 52.07 17 45 49 3653.6 -38.34 190.66
 131.79 0 53 44 2754.30 -33.67 80.48 243.39 52.06 1 39 38 2154.3 -38.33 72.86

DIFFERENTIAL CORRECTIONS

TDE 2.0572 TRA -.9255 TC3-3.8495 BAU .9074
 RDE .5606 RRA -.0677 RC3 -.6044 FAU .06403
 FDE 1.6829 FRA -.2127 FC3-3.1824 BSP 15041
 BDE 2.1322 BRA .9280 BC3 3.8967 FSP -1028

MID-COURSE EXECUTION ACCURACY

SGT 4695.5 SGR 931.1 SG3 306.6
 RRT .9306 RRF .9629 RTF .9555
 SGB 4787.0 R23 .1887 R13 .9581
 SG1 4775.2 SG2 335.0 THA 10.51

ORBIT DETERMINATION ACCURACY

ST 2885.0 SR 770.9 SS 1120.2
 CRT .9890 CRS -.9999 CST -2.9895
 LSA 3184.3 MSA 179.1 SSA 9.3
 EL1 2984.2 EL2 110.1 ALF 14.83

LAUNCH DATE FEB 8 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 461.587

RL 147.58 LAL .00 LOL 139.06 VL 27.285 GAL -1.14 AZL 84.73 HCA 219.15 SMA 125.90 ECC .17330 INC 5.2688 V1 30.190
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.250 GAP 6.18 AZP 94.09 TAL 185.47 TAP 44.62 RCA 104.08 APO 147.72 V2 34.860
 RC 141.067 GL 38.58 GP -33.50 ZAL 102.10 ZAP 138.53 ETS 314.08 ZAE 125.67 ETE 207.16 ZAC 121.59 ETC 186.08 CLP-153.97

PLANETOCENTRIC CONIC

C3 16.133 VHL 4.017 DLA 48.06 RAL 12.78 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 5.587 DPA -23.75 RAP 37.29 ECC 1.2655
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.39 16 54 40 4226.24 -33.87 195.77 245.71 53.60 18 5 6 3626.2 -38.35 187.97
 130.61 1 5 32 2746.41 -33.85 79.87 245.70 53.59 1 51 18 2146.4 -38.34 72.08
 49.39 16 54 40 4226.24 -33.87 195.77 245.71 53.60 18 5 6 3626.2 -38.35 187.97
 130.61 1 5 32 2746.41 -33.85 79.87 245.70 53.59 1 51 18 2146.4 -38.34 72.08
 49.39 16 54 40 4226.24 -33.87 195.77 245.71 53.60 18 5 6 3626.2 -38.35 187.97
 130.61 1 5 32 2746.41 -33.85 79.87 245.70 53.59 1 51 18 2146.4 -38.34 72.08

DIFFERENTIAL CORRECTIONS

TDE 2.0268 TRA -.7880 TC3-4.2838 BAU .9323
 RDE .5114 RRA -.0388 RC3 -.5785 FAU .06371
 FDE 1.6003 FRA -.0859 FC3-3.4190 BSP 15353
 BDE 2.0903 BRA .7890 BC3 4.3227 FSP -1036

MID-COURSE EXECUTION ACCURACY

SGT 4799.0 SGR 868.9 SG3 309.0
 RRT .9227 RRF .9516 RTF .9533
 SGB 4877.0 R23 .1758 R13 .9554
 SG1 4865.8 SG2 330.3 THA 9.53

ORBIT DETERMINATION ACCURACY

ST 2936.7 SR 730.0 SS 1103.1
 CRT .9903 CRS -.9998 CST -2.9890
 LSA 3216.1 MSA 175.4 SSA 10.5
 EL1 3024.5 EL2 98.6 ALF 13.84

LAUNCH DATE FEB 8 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 467.493

RL 147.58 LAL .00 LOL 139.06 VL 27.247 GAL -.86 AZL 85.12 HCA 222.32 SMA 125.66 ECC .17508 INC 4.8761 V1 30.190
 RP 108.68 LAP -3.28 LOP 358.09 VP 37.231 GAP 6.45 AZP 93.61 TAL 184.06 TAP 46.38 RCA 103.66 APO 147.66 V2 34.870
 RC 143.344 GL 36.55 GP -31.00 ZAL 100.47 ZAP 141.11 ETS 314.43 ZAE 126.48 ETE 205.24 ZAC 123.34 ETC 185.59 CLP-155.24

PLANETOCENTRIC CONIC

C3 15.124 VHL 3.889 DLA 47.23 RAL 16.79 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 5.609 DPA -20.80 RAP 37.70 ECC 1.2489
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.47 17 14 26 4202.34 -33.94 193.51 248.31 54.93 18 24 28 3602.3 -38.26 185.59
 129.53 1 17 46 2741.14 -33.93 79.42 248.30 54.92 2 3 28 2141.1 -38.25 71.50
 50.47 17 14 26 4202.34 -33.94 193.51 248.31 54.93 18 24 28 3602.3 -38.26 185.59
 129.53 1 17 46 2741.14 -33.93 79.42 248.30 54.92 2 3 28 2141.1 -38.25 71.50
 50.47 17 14 26 4202.34 -33.94 193.51 248.31 54.93 18 24 28 3602.3 -38.26 185.59
 129.53 1 17 46 2741.14 -33.93 79.42 248.30 54.92 2 3 28 2141.1 -38.25 71.50

DIFFERENTIAL CORRECTIONS

TDE 1.9998 TRA -.6472 TC3-4.6972 BAU .9562
 RDE .4715 RRA -.0157 RC3 -.5468 FAU .06269
 FDE 1.5101 FRA .0355 FC3-3.5886 BSP 15677
 BDE 2.0546 BRA .6474 BC3 4.7289 FSP -1036

MID-COURSE EXECUTION ACCURACY

SGT 4899.0 SGR 815.2 SG3 308.5
 RRT .9135 RRF .9380 RTF .9516
 SGB 4966.4 R23 .1591 R13 .9533
 SG1 4955.5 SG2 327.8 THA 8.68

ORBIT DETERMINATION ACCURACY

ST 2978.3 SR 694.8 SS 1079.1
 CRT .9917 CRS -.9995 CST -.9884
 LSA 3238.5 MSA 171.2 SSA 11.7
 EL1 3057.0 EL2 86.8 ALF 13.04

LAUNCH DATE FEB 8 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 473.398

RL 147.58 LAL .00 LOL 139.06 VL 27.209 GAL -.57 AZL 85.47 HCA 225.49 SMA 125.41 ECC .17701 INC 4.5282 V1 30.190
 RP 108.65 LAP -3.23 LOP 358.09 VP 37.214 GAP 6.72 AZP 93.18 TAL 182.64 TAP 48.13 RCA 103.21 APO 147.61 V2 34.880
 RC 145.608 GL 34.57 GP -28.79 ZAL 98.61 ZAP 143.48 ETS 314.71 ZAE 127.11 ETE 203.48 ZAC 125.11 ETC 185.14 CLP-156.50

PLANETOCENTRIC CONIC

C3 14.334 VHL 3.786 DLA 46.46 RAL 20.87 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 5.658 DPA -18.10 RAP 38.35 ECC 1.2359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.49 17 34 21 4181.22 -33.91 191.48 251.18 56.11 18 44 2 3581.2 -38.09 183.45
 128.51 1 30 25 2738.35 -33.90 79.13 251.17 56.10 2 16 3 2138.3 -38.08 71.11
 51.49 17 34 21 4181.22 -33.91 191.48 251.18 56.11 18 44 2 3581.2 -38.09 183.45
 128.51 1 30 25 2738.35 -33.90 79.13 251.17 56.10 2 16 3 2138.3 -38.08 71.11
 51.49 17 34 21 4181.22 -33.91 191.48 251.18 56.11 18 44 2 3581.2 -38.09 183.45
 128.51 1 30 25 2738.35 -33.90 79.13 251.17 56.10 2 16 3 2138.3 -38.08 71.11

DIFFERENTIAL CORRECTIONS

TDE 1.9722 TRA -.5004 TC3-5.0852 BAU .9794
 RDE .4388 RRA .0038 RC3 -.5121 FAU .06116
 FDE 1.4135 FRA .1532 FC3-3.6938 BSP 15978
 BDE 2.0204 BRA .5004 BC3 5.1109 FSP -1025

MID-COURSE EXECUTION ACCURACY

SGT 4994.2 SGR 769.0 SG3 305.6
 RRT .9024 RRF .9219 RTF .9501
 SGB 5053.1 R23 .1412 R13 .9514
 SG1 5042.4 SG2 328.2 THA 7.94

ORBIT DETERMINATION ACCURACY

ST 3005.0 SR 664.1 SS 1047.7
 CRT .9933 CRS -.9988 CST -.9877
 LSA 3246.6 MSA 167.3 SSA 13.0
 EL1 3076.6 EL2 74.9 ALF 12.39

LAUNCH DATE FEB 8 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 479.283

RL 147.58 LAL .00 LOL 139.06 VL 27.171 GAL -26 AZL 85.78 MCA 228.66 SMA 125.17 ECC .17910 INC 4.2160 V1 30.190
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.196 GAP 7.00 AZP 92.79 TAL 181.20 TAP 49.86 RCA 102.75 APO 147.58 V2 34.891
 RC 147.857 GL 32.63 GP -26.83 ZAL 96.53 ZAP 145.66 ETS 314.91 ZAE 127.59 ETE 201.89 ZAC 126.92 ETC 184.72 CLP-157.72

PLANETOCENTRIC CONIC

C3 13.723 VHL 3.704 DLA 45.71 RAL 25.02 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 5.728 DPA -15.61 RAP 39.18 ECC 1.2258
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.48 17 54 31 4162.44 -33.79 189.61 254.29 57.16 19 3 54 3562.4 -37.84 181.52
 127.52 1 43 23 2737.98 -33.78 79.00 254.29 57.15 2 29 1 2138.0 -37.83 70.91
 52.48 17 54 31 4162.44 -33.79 189.61 254.29 57.16 19 3 54 3562.4 -37.84 181.52
 127.52 1 43 23 2737.98 -33.78 79.00 254.29 57.15 2 29 1 2138.0 -37.83 70.91
 52.48 17 54 31 4162.44 -33.79 189.61 254.29 57.16 19 3 54 3562.4 -37.84 181.52
 127.52 1 43 23 2737.98 -33.78 79.00 254.29 57.15 2 29 1 2138.0 -37.83 70.91

DIFFERENTIAL CORRECTIONS

TDE 1.9451 TRA -.3472 TC3-5.4350 BAU 1.0009
 ROE .4130 RRA .0199 RC3 -.4757 FAU .05920
 FDE 1.3171 FRA .2630 FC3-3.7345 BSP 16326
 BOE 1.9885 BRA .3478 BC3 5.4557 FSP -1017

MID-COURSE EXECUTION ACCURACY

SGT 5085.0 SGR 730.9 SG3 301.1
 RRT .8898 RRF .9038 RTF .9493
 SGB 5137.2 R23 .1217 R13 .9503
 SG1 5126.6 SG2 330.8 THA 7.32

ORBIT DETERMINATION ACCURACY

ST 3019.7 SR 639.0 SS 1012.7
 CRT .9950 CRS -.9976 CST -.9869
 LSA 3244.4 MSA 163.2 SSA 14.3
 EL1 3086.0 EL2 62.4 ALF 11.90

LAUNCH DATE FEB 8 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 485.153

RL 147.58 LAL .00 LOL 139.06 VL 27.133 GAL .06 AZL 86.07 MCA 231.83 SMA 124.92 ECC .18135 INC 3.9327 V1 30.190
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.179 GAP 7.28 AZP 92.43 TAL 179.74 TAP 51.57 RCA 102.27 APO 147.58 V2 34.902
 RC 150.092 GL 30.72 GP -25.09 ZAL 94.25 ZAP 147.67 ETS 315.01 ZAE 127.97 ETE 200.46 ZAC 128.77 ETC 184.34 CLP-158.91

PLANETOCENTRIC CONIC

C3 13.267 VHL 3.642 DLA 44.97 RAL 29.25 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 5.815 DPA -13.31 RAP 40.18 ECC 1.2183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.48 18 15 6 4145.46 -33.57 187.87 257.64 58.11 19 24 11 3545.5 -37.50 179.73
 126.52 1 56 32 2740.25 -33.56 79.05 257.63 58.09 2 42 12 2140.2 -37.49 70.90
 53.48 18 15 6 4145.46 -33.57 187.87 257.64 58.11 19 24 11 3545.5 -37.50 179.73
 126.52 1 56 32 2740.25 -33.56 79.05 257.63 58.09 2 42 12 2140.2 -37.49 70.90
 53.48 18 15 6 4145.46 -33.57 187.87 257.64 58.11 19 24 11 3545.5 -37.50 179.73
 126.52 1 56 32 2740.25 -33.56 79.05 257.63 58.09 2 42 12 2140.2 -37.49 70.90

DIFFERENTIAL CORRECTIONS

TDE 1.9165 TRA -.1810 TC3-5.7535 BAU 1.0235
 ROE .3938 RRA .0367 RC3 -.4403 FAU .05704
 FDE 1.2263 FRA .3796 FC3-3.7222 BSP 16539
 BOE 1.9565 BRA .1847 BC3 5.7703 FSP -975

MID-COURSE EXECUTION ACCURACY

SGT 5178.5 SGR 702.3 SG3 296.6
 RRT .8741 RRF .8849 RTF .9472
 SGB 5225.9 R23 .1098 R13 .9481
 SG1 5214.9 SG2 338.8 THA 6.79

ORBIT DETERMINATION ACCURACY

ST 3019.7 SR 620.0 SS 978.4
 CRT .9965 CRS -.9955 CST -.9855
 LSA 3230.1 MSA 162.7 SSA 15.6
 EL1 3082.3 EL2 50.8 ALF 11.57

LAUNCH DATE FEB 8 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 491.009

RL 147.58 LAL .00 LOL 139.06 VL 27.095 GAL .39 AZL 86.33 MCA 235.01 SMA 124.68 ECC .18378 INC 3.6729 V1 30.190
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.162 GAP 7.56 AZP 92.11 TAL 178.27 TAP 53.28 RCA 101.77 APO 147.59 V2 34.914
 RC 152.312 GL 28.84 GP -23.55 ZAL 91.80 ZAP 149.52 ETS 315.01 ZAE 128.26 ETE 199.18 ZAC 130.65 ETC 183.98 CLP-160.07

PLANETOCENTRIC CONIC

C3 12.948 VHL 3.598 DLA 44.22 RAL 33.54 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 5.918 DPA -11.17 RAP 41.32 ECC 1.2131
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.49 18 36 6 4129.98 -33.25 186.23 261.19 58.98 19 44 56 3530.0 -37.08 178.05
 125.51 2 9 43 2745.22 -33.24 79.27 261.19 58.97 2 55 28 2145.2 -37.07 71.10
 54.49 18 36 6 4129.98 -33.25 186.23 261.19 58.98 19 44 56 3530.0 -37.08 178.05
 125.51 2 9 43 2745.22 -33.24 79.27 261.19 58.97 2 55 28 2145.2 -37.07 71.10
 54.49 18 36 6 4129.98 -33.25 186.23 261.19 58.98 19 44 56 3530.0 -37.08 178.05
 125.51 2 9 43 2745.22 -33.24 79.27 261.19 58.97 2 55 28 2145.2 -37.07 71.10

DIFFERENTIAL CORRECTIONS

TDE 1.8828 TRA -.0158 TC3-5.9906 BAU 1.0393
 ROE .3774 RRA .0481 RC3 -.3993 FAU .05419
 FDE 1.1294 FRA .4712 FC3-3.6235 BSP 16775
 BOE 1.9202 BRA .0506 BC3 6.0039 FSP -957

MID-COURSE EXECUTION ACCURACY

SGT 5251.3 SGR 674.6 SG3 288.2
 RRT .8572 RRF .8628 RTF .9474
 SGB 5294.4 R23 .0917 R13 .9480
 SG1 5283.1 SG2 345.4 THA 6.31

ORBIT DETERMINATION ACCURACY

ST 3000.6 SR 601.8 SS 934.3
 CRT .9980 CRS -.9925 CST -.9845
 LSA 3195.9 MSA 158.5 SSA 16.8
 EL1 3060.2 EL2 37.6 ALF 11.32

LAUNCH DATE FEB 8 1969

FLIGHT TIME 172.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 496.847

RL 147.58 LAL .00 LOL 139.06 VL 27.057 GAL .74 AZL 86.57 MCA 238.19 SMA 124.44 ECC .18640 INC 3.4324 V1 30.190
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.145 GAP 7.85 AZP 91.81 TAL 176.78 TAP 54.97 RCA 101.24 APO 147.63 V2 34.926
 RC 154.516 GL 26.97 GP -22.17 ZAL 89.19 ZAP 151.24 ETS 314.90 ZAE 128.48 ETE 198.03 ZAC 132.57 ETC 183.63 CLP-161.20

PLANETOCENTRIC CONIC

C3 12.758 VHL 3.572 DLA 43.44 RAL 37.86 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 6.035 DPA -9.19 RAP 42.58 ECC 1.2100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.57 18 57 37 4115.47 -32.83 184.62 264.92 59.79 20 6 13 3515.5 -36.57 176.43
 124.43 2 22 44 2753.35 -32.82 79.71 264.92 59.77 3 8 37 2153.4 -36.56 71.51
 55.57 18 57 37 4115.47 -32.83 184.62 264.92 59.79 20 6 13 3515.5 -36.57 176.43
 124.43 2 22 44 2753.35 -32.82 79.71 264.92 59.77 3 8 37 2153.4 -36.56 71.51
 55.57 18 57 37 4115.47 -32.83 184.62 264.92 59.79 20 6 13 3515.5 -36.57 176.43
 124.43 2 22 44 2753.35 -32.82 79.71 264.92 59.77 3 8 37 2153.4 -36.56 71.51

DIFFERENTIAL CORRECTIONS

TDE 1.8357 TRA .1582 TC3-6.2022 BAU 1.0597
 ROE .3635 RRA .0595 RC3 -.3677 FAU .05182
 FDE 1.0274 FRA .5607 FC3-3.5166 BSP 17108
 BOE 1.8713 BRA .1690 BC3 6.2131 FSP -938

MID-COURSE EXECUTION ACCURACY

SGT 5331.4 SGR 652.9 SG3 280.8
 RRT .8408 RRF .8407 RTF .9475
 SGB 5371.2 R23 .0749 R13 .9480
 SG1 5359.7 SG2 351.6 THA 5.90

ORBIT DETERMINATION ACCURACY

ST 2949.5 SR 584.5 SS 881.7
 CRT .9990 CRS -.9877 CST -.9828
 LSA 3129.5 MSA 156.7 SSA 18.1
 EL1 3006.8 EL2 25.8 ALF 11.20

LAUNCH DATE FEB 8 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 27.018 GAL 1.10 AZL 86.79 HCA 241.37 SMA 124.19 ECC .18922 INC 3.2077 V1 30.190
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.129 GAP 8.15 AZP 91.54 TAL 175.28 TAP 56.65 RCA 100.69 APO 147.69 V2 34.938
 RC 156.704 GL 25.11 GP -20.93 ZAL 86.44 ZAP 152.85 ETS 314.67 ZAE 128.66 ETE 197.00 ZAC 134.52 ETC 183.30 CLP-162.30

PLANETOCENTRIC CONIC
 C3 12.689 VHL 3.562 DLA 42.61 RAL 42.21 RAD 6567.5 VEL 11.579 PTH 2.02 VHP 6.163 DPA -7.33 RAP 43.95 ECC 1.2088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.73 19 19 40 4101.66 -32.30 183.03 268.80 60.55 20 28 1 3501.7 -35.95 174.84
 123.27 2 35 23 2764.85 -32.29 80.37 268.80 60.54 3 21 28 2164.8 -35.94 72.18
 56.73 19 19 40 4101.66 -32.30 183.03 268.80 60.55 20 28 1 3501.7 -35.95 174.84
 123.27 2 35 23 2764.85 -32.29 80.37 268.80 60.54 3 21 28 2164.8 -35.94 72.18
 56.73 19 19 40 4101.66 -32.30 183.03 268.80 60.55 20 28 1 3501.7 -35.95 174.84
 123.27 2 35 23 2764.85 -32.29 80.37 268.80 60.54 3 21 28 2164.8 -35.94 72.18

DIFFERENTIAL CORRECTIONS
 TDE 1.7872 TRA .3462 TC3-6.3354 BAU 1.0762
 RDE .3540 RRA .0713 RC3 -.3350 FAU .04913
 FDE .9342 FRA .6487 FC3-3.3523 BSP 17297
 BDE 1.8219 BRA .3535 BC3 6.3442 FSP -907

MID-COURSE EXECUTION ACCURACY
 SGT 5404.4 SGR 636.7 SG3 272.8
 RRT .8229 RRF .8188 RTF .9476
 SGB 5441.7 R23 .0626 R13 .9480
 SG1 5429.8 SG2 360.1 THA 5.56

ORBIT DETERMINATION ACCURACY
 ST 2886.7 SR 571.3 SS 832.5
 CRT .9994 CRS -.9807 CST -.9807
 LSA 3054.1 MSA 156.7 SSA 19.3
 EL1 2942.7 EL2 19.4 ALF 11.19

LAUNCH DATE FEB 8 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.980 GAL 1.48 AZL 87.00 HCA 244.55 SMA 123.95 ECC .19226 INC 2.9961 V1 30.190
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.113 GAP 8.45 AZP 91.29 TAL 173.77 TAP 58.33 RCA 100.12 APO 147.78 V2 34.951
 RC 158.875 GL 23.26 GP -19.82 ZAL 83.60 ZAP 154.34 ETS 314.32 ZAE 128.79 ETE 196.08 ZAC 136.51 ETC 182.97 CLP-163.37

PLANETOCENTRIC CONIC
 C3 12.740 VHL 3.569 DLA 41.72 RAL 46.55 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.304 DPA -5.59 RAP 45.43 ECC 1.2097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.98 19 42 14 4088.17 -31.66 181.43 272.80 61.27 20 50 22 3488.2 -35.22 173.26
 122.02 2 47 26 2780.07 -31.65 81.28 272.79 61.26 3 33 46 2180.1 -35.21 73.11
 57.98 19 42 14 4088.17 -31.66 181.43 272.80 61.27 20 50 22 3488.2 -35.22 173.26
 122.02 2 47 26 2780.07 -31.65 81.28 272.79 61.26 3 33 46 2180.1 -35.21 73.11
 57.98 19 42 14 4088.17 -31.66 181.43 272.80 61.27 20 50 22 3488.2 -35.22 173.26
 122.02 2 47 26 2780.07 -31.65 81.28 272.79 61.26 3 33 46 2180.1 -35.21 73.11

DIFFERENTIAL CORRECTIONS
 TDE 1.7246 TRA .5389 TC3-6.4130 BAU 1.0935
 RDE .3461 RRA .0821 RC3 -.3060 FAU .04655
 FDE .8381 FRA .7269 FC3-3.1632 BSP 17571
 BDE 1.7590 BRA .5451 BC3 6.4203 FSP -882

MID-COURSE EXECUTION ACCURACY
 SGT 5474.1 SGR 622.5 SG3 264.2
 RRT .8048 RRF .7966 RTF .9482
 SGB 5509.3 R23 .0506 R13 .9485
 SG1 5497.0 SG2 367.9 THA 5.25

ORBIT DETERMINATION ACCURACY
 ST 2793.5 SR 558.1 SS 776.8
 CRT .9989 CRS -.9706 CST -.9780
 LSA 2948.4 MSA 158.3 SSA 20.3
 EL1 2848.5 EL2 26.2 ALF 11.29

LAUNCH DATE FEB 8 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.941 GAL 1.87 AZL 87.20 HCA 247.74 SMA 123.71 ECC .19553 INC 2.7953 V1 30.190
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.097 GAP 8.77 AZP 91.06 TAL 172.25 TAP 60.00 RCA 99.52 APO 147.90 V2 34.964
 RC 161.027 GL 21.43 GP -18.82 ZAL 80.67 ZAP 155.75 ETS 313.83 ZAE 128.90 ETE 195.26 ZAC 138.53 ETC 182.65 CLP-164.42

PLANETOCENTRIC CONIC
 C3 12.914 VHL 3.594 DLA 40.77 RAL 50.85 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.455 DPA -3.96 RAP 46.99 ECC 1.2125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.35 20 5 21 4074.53 -30.91 179.78 276.89 61.97 21 13 16 3474.5 -34.39 171.63
 120.65 2 58 36 2799.53 -30.90 82.49 276.88 61.96 3 45 16 2199.5 -34.38 74.35
 59.35 20 5 21 4074.53 -30.91 179.78 276.89 61.97 21 13 16 3474.5 -34.39 171.63
 120.65 2 58 36 2799.53 -30.90 82.49 276.88 61.96 3 45 16 2199.5 -34.38 74.35
 59.35 20 5 21 4074.53 -30.91 179.78 276.89 61.97 21 13 16 3474.5 -34.39 171.63
 120.65 2 58 36 2799.53 -30.90 82.49 276.88 61.96 3 45 16 2199.5 -34.38 74.35

DIFFERENTIAL CORRECTIONS
 TDE 1.6539 TRA .7425 TC3-6.4206 BAU 1.1095
 RDE .3406 RRA .0933 RC3 -.2793 FAU .04398
 FDE .7460 FRA .8014 FC3-2.9482 BSP 17807
 BDE 1.6886 BRA .7483 BC3 6.4267 FSP -854

MID-COURSE EXECUTION ACCURACY
 SGT 5540.0 SGR 611.4 SG3 255.6
 RRT .7869 RRF .7755 RTF .9489
 SGB 5573.6 R23 .0410 R13 .9492
 SG1 5560.9 SG2 375.8 THA 4.99

ORBIT DETERMINATION ACCURACY
 ST 2681.9 SR 546.3 SS 721.8
 CRT .9969 CRS -.9563 CST -.9746
 LSA 2825.8 MSA 162.7 SSA 21.1
 EL1 2736.6 EL2 42.3 ALF 11.48

LAUNCH DATE FEB 8 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.903 GAL 2.29 AZL 87.40 HCA 250.93 SMA 123.48 ECC .19906 INC 2.6033 V1 30.190
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.081 GAP 9.09 AZP 90.85 TAL 170.73 TAP 61.66 RCA 98.90 APO 148.06 V2 34.977
 RC 163.161 GL 19.63 GP -17.93 ZAL 77.69 ZAP 157.06 ETS 313.21 ZAE 128.99 ETE 194.53 ZAC 140.58 ETC 182.31 CLP-165.45

PLANETOCENTRIC CONIC
 C3 13.214 VHL 3.635 DLA 39.75 RAL 55.08 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 6.618 DPA -2.42 RAP 48.63 ECC 1.2175
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.85 20 29 0 4060.48 -30.05 178.06 281.04 62.64 21 36 40 3460.5 -33.45 169.95
 119.15 3 8 43 2823.49 -30.04 84.00 281.03 62.63 3 55 47 2223.5 -33.44 75.90
 60.85 20 29 0 4060.48 -30.05 178.06 281.04 62.64 21 36 40 3460.5 -33.45 169.95
 119.15 3 8 43 2823.49 -30.04 84.00 281.03 62.63 3 55 47 2223.5 -33.44 75.90
 60.85 20 29 0 4060.48 -30.05 178.06 281.04 62.64 21 36 40 3460.5 -33.45 169.95
 119.15 3 8 43 2823.49 -30.04 84.00 281.03 62.63 3 55 47 2223.5 -33.44 75.90

DIFFERENTIAL CORRECTIONS
 TDE 1.5728 TRA .9560 TC3-6.3614 BAU 1.1247
 RDE .3368 RRA .1047 RC3 -.2549 FAU .04144
 FDE .6561 FRA .8710 FC3-2.7152 BSP 18052
 BDE 1.6085 BRA .9617 BC3 6.3665 FSP -828

MID-COURSE EXECUTION ACCURACY
 SGT 5601.5 SGR 601.9 SG3 246.7
 RRT .7694 RRF .7552 RTF .9498
 SGB 5633.7 R23 .0330 R13 .9500
 SG1 5620.7 SG2 383.2 THA 4.75

ORBIT DETERMINATION ACCURACY
 ST 2551.6 SR 534.8 SS 666.8
 CRT .9928 CRS -.9361 CST -.9702
 LSA 2685.5 MSA 170.3 SSA 21.5
 EL1 2606.3 EL2 62.9 ALF 11.76

LAUNCH DATE FEB 8 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 525.746

RL 147.58 LAL .00 LOL 139.06 VL 26.865 GAL 2.72 AZL 87.58 HCA 254.12 SMA 123.24 ECC .20287 INC 2.4185 V1 30.190
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.066 GAP 9.43 AZP 90.66 TAL 169.20 TAP 63.33 RCA 98.24 APO 148.24 V2 34.990
 RC 165.276 GL 17.85 GP -17.12 ZAL 74.68 ZAP 158.30 ETS 312.43 ZAE 129.06 ETE 193.87 ZAC 142.66 ETC 181.95 CLP-166.45

PLANETOCENTRIC CONIC

C3 13.648 VHL 3.694 DLA 38.68 RAL 59.21 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 6.792 DPA -.97 RAP 50.35 ECC 1.2246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.47 20 53 12 4045.47 -29.08 176.23 285.22 63.29 22 0 37 3445.5 -32.41 168.18
 117.53 3 17 29 2852.54 -29.07 85.86 285.21 63.28 4 5 1 2252.5 -32.40 77.82
 62.47 20 53 12 4045.47 -29.08 176.23 285.22 63.29 22 0 37 3445.5 -32.41 168.18
 117.53 3 17 29 2852.54 -29.07 85.86 285.21 63.28 4 5 1 2252.5 -32.40 77.82
 62.47 20 53 12 4045.47 -29.08 176.23 285.22 63.29 22 0 37 3445.5 -32.41 168.18
 117.53 3 17 29 2852.54 -29.07 85.86 285.21 63.28 4 5 1 2252.5 -32.40 77.82

DIFFERENTIAL CORRECTIONS

TDE 1.4857 TRA 1.1843 TC3-6.2261 BAU 1.1368
 RDE .3350 RRA .1170 RC3 -.2312 FAU .03884
 FDE .5722 FRA .9394 FC3-2.4639 BSP 18186
 BDE 1.5230 BRA 1.1901 BC3 6.2304 FSP -796

MID-COURSE EXECUTION ACCURACY

SGT 5657.4 SGR 594.3 SG3 237.9
 RRT .7525 RRF .7368 RTF .9505
 SGB 5688.6 R23 .0275 R13 .9507
 SGI 5675.2 SG2 390.2 THA 4.54

ORBIT DETERMINATION ACCURACY

ST 2413.8 SR 524.3 SS 616.5
 CRT .9855 CRS -.9084 CST -.9650
 LSA 2539.3 MSA 182.0 SSA 21.5
 EL1 2468.6 EL2 87.0 ALF 12.10

LAUNCH DATE FEB 8 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 531.454

RL 147.58 LAL .00 LOL 139.06 VL 26.827 GAL 3.17 AZL 87.76 HCA 257.32 SMA 123.01 ECC .20697 INC 2.2392 V1 30.190
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.051 GAP 9.79 AZP 90.49 TAL 167.67 TAP 64.99 RCA 97.55 APO 148.47 V2 35.003
 RC 167.370 GL 16.11 GP -16.38 ZAL 71.67 ZAP 159.46 ETS 311.48 ZAE 129.12 ETE 193.28 ZAC 144.76 ETC 181.57 CLP-167.43

PLANETOCENTRIC CONIC

C3 14.225 VHL 3.772 DLA 37.55 RAL 63.22 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 6.977 DPA .39 RAP 52.13 ECC 1.2341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.24 21 17 58 4029.10 -28.02 174.29 289.41 63.92 22 25 7 3429.1 -31.28 166.30
 115.76 3 24 41 2887.10 -28.01 88.11 289.41 63.90 4 12 48 2287.1 -31.27 80.12
 64.24 21 17 58 4029.10 -28.02 174.29 289.41 63.92 22 25 7 3429.1 -31.28 166.30
 115.76 3 24 41 2887.10 -28.01 88.11 289.41 63.90 4 12 48 2287.1 -31.27 80.12
 64.24 21 17 58 4029.10 -28.02 174.29 289.41 63.92 22 25 7 3429.1 -31.28 166.30
 115.76 3 24 41 2887.10 -28.01 88.11 289.41 63.90 4 12 48 2287.1 -31.27 80.12

DIFFERENTIAL CORRECTIONS

TDE 1.3853 TRA 1.4197 TC3-6.0417 BAU 1.1497
 RDE .3341 RRA .1294 RC3 -.2107 FAU .03642
 FDE .4888 FRA 1.0014 FC3-2.2163 BSP 18412
 BDE 1.4250 BRA 1.4256 BC3 6.0454 FSP -770

MID-COURSE EXECUTION ACCURACY

SGT 5709.5 SGR 586.8 SG3 229.0
 RRT .7364 RRF .7189 RTF .9515
 SGB 5739.5 R23 .0221 R13 .9516
 SGI 5725.9 SG2 395.9 THA 4.35

ORBIT DETERMINATION ACCURACY

ST 2261.3 SR 513.0 SS 567.2
 CRT .9737 CRS -.8701 CST -.9585
 LSA 2378.8 MSA 197.9 SSA 21.2
 EL1 2315.9 EL2 114.2 ALF 12.49

LAUNCH DATE FEB 8 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 537.132

RL 147.58 LAL .00 LOL 139.06 VL 26.789 GAL 3.65 AZL 87.94 HCA 260.52 SMA 122.78 ECC .21139 INC 2.0643 V1 30.190
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.036 GAP 10.15 AZP 90.34 TAL 166.14 TAP 66.66 RCA 96.82 APO 148.73 V2 35.016
 RC 169.445 GL 14.42 GP -15.71 ZAL 68.68 ZAP 160.56 ETS 310.36 ZAE 129.16 ETE 192.74 ZAC 146.89 ETC 181.16 CLP-168.40

PLANETOCENTRIC CONIC

C3 14.958 VHL 3.868 DLA 36.37 RAL 67.08 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 7.175 DPA 1.68 RAP 53.97 ECC 1.2462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.16 21 43 23 4010.77 -26.88 172.18 293.60 64.52 22 50 14 3410.8 -30.08 164.25
 113.84 3 30 3 2927.76 -26.87 90.78 293.60 64.51 4 18 51 2327.8 -30.06 82.85
 66.16 21 43 23 4010.77 -26.88 172.18 293.60 64.52 22 50 14 3410.8 -30.08 164.25
 113.84 3 30 3 2927.76 -26.87 90.78 293.60 64.51 4 18 51 2327.8 -30.06 82.85
 66.16 21 43 23 4010.77 -26.88 172.18 293.60 64.52 22 50 14 3410.8 -30.08 164.25
 113.84 3 30 3 2927.76 -26.87 90.78 293.60 64.51 4 18 51 2327.8 -30.06 82.85

DIFFERENTIAL CORRECTIONS

TDE 1.2774 TRA 1.6676 TC3-5.8028 BAU 1.1610
 RDE .3345 RRA .1426 RC3 -.1917 FAU .03404
 FDE .4103 FRA 1.0607 FC3-1.9705 BSP 18612
 BDE 1.3205 BRA 1.6737 BC3 5.8059 FSP -744

MID-COURSE EXECUTION ACCURACY

SGT 5756.9 SGR 580.0 SG3 220.3
 RRT .7213 RRF .7027 RTF .9524
 SGB 5786.0 R23 .0180 R13 .9525
 SGI 5772.1 SG2 400.7 THA 4.18

ORBIT DETERMINATION ACCURACY

ST 2108.7 SR 501.8 SS 524.0
 CRT .9553 CRS -.8194 CST -.9513
 LSA 2219.2 MSA 218.2 SSA 20.7
 EL1 2162.8 EL2 144.6 ALF 12.87

LAUNCH DATE FEB 8 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 542.777

RL 147.58 LAL .00 LOL 139.06 VL 26.751 GAL 4.15 AZL 88.11 HCA 263.72 SMA 122.55 ECC .21617 INC 1.8925 V1 30.190
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.021 GAP 10.54 AZP 90.21 TAL 164.61 TAP 68.33 RCA 96.06 APO 149.04 V2 35.030
 RC 171.498 GL 12.78 GP -15.11 ZAL 65.74 ZAP 161.59 ETS 309.04 ZAE 129.20 ETE 192.26 ZAC 149.03 ETC 180.69 CLP-169.36

PLANETOCENTRIC CONIC

C3 15.862 VHL 3.983 DLA 35.16 RAL 70.78 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 7.386 DPA 2.89 RAP 55.87 ECC 1.2611
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.23 22 9 37 3989.70 -25.67 169.87 297.77 65.10 23 16 6 3389.7 -28.80 162.00
 111.77 3 33 20 2975.28 -25.66 93.93 297.77 65.09 4 22 55 2375.3 -28.79 86.07
 68.23 22 9 37 3989.70 -25.67 169.87 297.77 65.10 23 16 6 3389.7 -28.80 162.00
 111.77 3 33 20 2975.28 -25.66 93.93 297.77 65.09 4 22 55 2375.3 -28.79 86.07
 68.23 22 9 37 3989.70 -25.67 169.87 297.77 65.10 23 16 6 3389.7 -28.80 162.00
 111.77 3 33 20 2975.28 -25.66 93.93 297.77 65.09 4 22 55 2375.3 -28.79 86.07

DIFFERENTIAL CORRECTIONS

TDE 1.1618 TRA 1.9285 TC3-5.5187 BAU 1.1709
 RDE .3360 RRA .1564 RC3 -.1742 FAU .03175
 FDE .3359 FRA 1.1175 FC3-1.7329 BSP 18800
 BDE 1.2094 BRA 1.9348 BC3 5.5214 FSP -719

MID-COURSE EXECUTION ACCURACY

SGT 5799.4 SGR 573.3 SG3 211.7
 RRT .7073 RRF .6878 RTF .9533
 SGB 5827.7 R23 .0144 R13 .9534
 SGI 5813.7 SG2 404.3 THA 4.02

ORBIT DETERMINATION ACCURACY

ST 1961.4 SR 490.4 SS 487.4
 CRT .9279 CRS -.7542 CST -.9437
 LSA 2065.4 MSA 242.8 SSA 19.9
 EL1 2013.9 EL2 178.1 ALF 13.17

LAUNCH DATE FEB 8 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.713 GAL 4.67 AZL 88.28 HCA 266.92 SMA 122.32 ECC .22133 INC 1.7226 V1 30.190
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.007 GAP 10.94 AZP 90.09 TAL 163.08 TAP 70.00 RCA 95.25 APO 149.39 V2 35.043
 RC 173.532 GL 11.21 GP -14.56 ZAL 62.86 ZAP 162.56 ETS 307.51 ZAE 129.23 ETE 191.83 ZAC 151.19 ETC 180.17 CLP-170.30

PLANETOCENTRIC CONIC
 C3 16.958 VHL 4.118 CLA 33.93 RAL 74.30 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 7.612 DPA 4.04 RAP 57.81 ECC 1.2791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.47 22 36 53 3964.85 -24.40 167.28 301.92 65.66 23 42 58 3364.8 -27.48 159.48
 109.53 3 34 9 3030.66 -24.39 97.64 301.91 65.64 4 24 40 2430.7 -27.46 89.84
 70.47 22 36 53 3964.85 -24.40 167.28 301.92 65.66 23 42 58 3364.8 -27.48 159.48
 109.53 3 34 9 3030.66 -24.39 97.64 301.91 65.64 4 24 40 2430.7 -27.46 89.84
 110.00 4 8 24 2926.10 -27.12 90.78 303.20 68.35 4 57 10 2326.1 -29.81 82.62
 110.00 3 5 44 3117.40 -21.73 103.01 300.52 62.94 3 57 41 2517.4 -25.18 95.55

DIFFERENTIAL CORRECTIONS
 TDE 1.0431 TRA 2.2068 TC3-5.1900 BAU 1.1772 SGT 5837.2 SGR 567.1 SG3 203.5 ST 1831.7 SR 479.4 SS 460.2
 RDE .3389 RRA .1714 RC3 -.1568 FAU .02942 RRT .6948 RRF .6750 RTF .9540 CRT .8889 CRS -.6765 CST -.9378
 FDE .2681 FRA 1.1747 FC3-1.5018 BSP 18883 SGB 5864.7 R23 .0124 R13 .9541 LSA 1929.6 MSA 270.5 SSA 19.0
 BOE 1.0967 BRA 2.2135 BC3 5.1924 FSP -690 SG1 5850.6 SG2 407.0 THA 3.88 EL1 1881.3 EL2 213.8 ALF 13.27

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 8 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.676 GAL 5.23 AZL 88.45 HCA 270.12 SMA 122.10 ECC .22692 INC 1.5537 V1 30.190
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.992 GAP 11.37 AZP 90.00 TAL 161.56 TAP 71.69 RCA 94.39 APO 149.80 V2 35.056
 RC 175.544 GL 9.70 GP -14.06 ZAL 60.07 ZAP 163.48 ETS 305.74 ZAE 129.25 ETE 191.44 ZAC 153.36 ETC 179.56 CLP-171.24

PLANETOCENTRIC CONIC
 C3 18.267 VHL 4.274 CLA 32.69 RAL 77.63 RAD 6567.7 VEL 11.817 PTH 2.09 VHP 7.852 DPA 5.12 RAP 59.81 ECC 1.3006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.93 23 5 39 3934.54 -23.10 164.30 306.02 66.19 24 11 13 3334.5 -26.11 156.56
 107.07 3 32 0 3095.49 -23.08 102.01 306.01 66.18 4 23 36 2495.5 -26.10 94.28
 72.93 23 5 39 3934.54 -23.10 164.30 306.02 66.19 24 11 13 3334.5 -26.11 156.56
 107.07 3 32 0 3095.49 -23.08 102.01 306.01 66.18 4 23 36 2495.5 -26.10 94.28
 110.00 5 6 29 2804.47 -29.90 82.40 308.88 72.60 5 53 14 2204.5 -31.98 73.81
 110.00 2 34 16 3273.56 -16.61 112.23 302.50 59.69 3 28 50 2673.6 -20.51 105.27

DIFFERENTIAL CORRECTIONS
 TDE .9144 TRA 2.4957 TC3-4.8455 BAU 1.1839 SGT 5870.5 SGR 560.1 SG3 195.5 ST 1714.8 SR 467.5 SS 439.3
 RDE .3423 RRA .1867 RC3 -.1416 FAU .02727 RRT .6831 RRF .6628 RTF .9549 CRT .8350 CRS -.5851 CST -.9339
 FDE .2026 FRA 1.2282 FC3-1.2925 BSP 19046 SGB 5897.1 R23 .0100 R13 .9550 LSA 1806.0 MSA 300.1 SSA 18.2
 BOE .9764 BRA 2.5026 BC3 4.8475 FSP -666 SG1 5883.0 SG2 408.2 THA 3.75 EL1 1759.6 EL2 250.7 ALF 13.10

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 8 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.639 GAL 5.81 AZL 88.62 HCA 273.33 SMA 121.87 ECC .23297 INC 1.3846 V1 30.190
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.978 GAP 11.82 AZP 89.92 TAL 160.05 TAP 73.38 RCA 93.48 APO 150.27 V2 35.069
 RC 177.535 GL 8.27 GP -13.60 ZAL 57.38 ZAP 164.34 ETS 303.72 ZAE 129.26 ETE 191.08 ZAC 155.54 ETC 178.85 CLP-172.16

PLANETOCENTRIC CONIC
 C3 19.819 VHL 4.452 CLA 31.46 RAL 80.78 RAD 6567.8 VEL 11.883 PTH 2.11 VHP 8.109 DPA 6.13 RAP 61.84 ECC 1.3262
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.68 23 36 40 3896.14 -21.76 160.74 310.08 66.70 24 41 37 3296.1 -24.72 153.07
 104.32 3 26 6 3172.33 -21.75 107.23 310.08 66.69 4 18 59 2572.3 -24.71 99.56
 75.68 23 36 40 3896.14 -21.76 160.74 310.08 66.70 24 41 37 3296.1 -24.72 153.07
 104.32 3 26 6 3172.33 -21.75 107.23 310.08 66.69 4 18 59 2572.3 -24.71 99.56
 110.00 5 45 34 2739.04 -31.14 77.71 313.70 75.12 6 31 13 2139.0 -32.86 68.91
 110.00 2 20 20 3377.43 -12.95 118.05 305.27 58.09 3 16 37 2777.4 -17.08 111.37

DIFFERENTIAL CORRECTIONS
 TDE .7802 TRA 2.7996 TC3-4.4844 BAU 1.1886 SGT 5898.6 SGR 552.5 SG3 187.8 ST 1621.3 SR 455.4 SS 426.1
 RDE .3466 RRA .2026 RC3 -.1272 FAU .02520 RRT .6724 RRF .6517 RTF .9558 CRT .7646 CRS -.4854 CST -.9338
 FDE .1414 FRA 1.2802 FC3-1.1008 BSP 19211 SGB 5924.4 R23 .0080 R13 .9559 LSA 1705.5 MSA 329.3 SSA 17.3
 BOE .8537 BRA 2.8070 BC3 4.4862 FSP -644 SG1 5910.3 SG2 408.1 THA 3.62 EL1 1659.4 EL2 286.7 ALF 12.50

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 8 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC
 RL 147.58 LAL .00 LOL 139.06 VL 26.602 GAL 6.43 AZL 88.79 HCA 276.54 SMA 121.66 ECC .23954 INC 1.2142 V1 30.190
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.964 GAP 12.30 AZP 89.86 TAL 158.55 TAP 75.09 RCA 92.51 APO 150.80 V2 35.083
 RC 179.506 GL 6.92 GP -13.18 ZAL 54.79 ZAP 165.15 ETS 301.41 ZAE 129.27 ETE 190.75 ZAC 157.72 ETC 177.99 CLP-173.08

PLANETOCENTRIC CONIC
 C3 21.645 VHL 4.652 CLA 30.24 RAL 83.75 RAD 6567.9 VEL 11.959 PTH 2.13 VHP 8.385 DPA 7.08 RAP 63.92 ECC 1.3562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.91 0 15 44 3843.55 -20.41 156.18 314.10 67.19 1 19 47 3243.6 -23.32 148.57
 101.09 3 14 37 3267.14 -20.40 113.74 314.10 67.18 4 9 4 2667.1 -23.31 106.12
 78.91 0 15 44 3843.55 -20.41 156.18 314.10 67.19 1 19 47 3243.6 -23.32 148.57
 101.09 3 14 37 3267.14 -20.40 113.74 314.10 67.18 4 9 4 2667.1 -23.31 106.12
 110.00 6 17 53 2692.89 -31.89 74.32 318.23 76.99 7 2 46 2092.9 -33.35 65.40
 110.00 2 11 38 3465.80 -9.72 122.86 308.27 57.07 3 9 24 2865.8 -14.00 116.37

DIFFERENTIAL CORRECTIONS
 TDE .6418 TRA 3.1213 TC3-4.1134 BAU 1.1908 SGT 5922.2 SGR 544.4 SG3 180.5 ST 1555.6 SR 443.1 SS 420.1
 RDE .3516 RRA .2193 RC3 -.1134 FAU .02318 RRT .6629 RRF .6420 RTF .9568 CRT .6787 CRS -.3844 CST -.9380
 FDE .0848 FRA 1.3324 FC3 -.9271 BSP 19329 SGB 5947.2 R23 .0063 R13 .9569 LSA 1632.9 MSA 355.1 SSA 16.5
 BOE .7318 BRA 3.1290 BC3 4.1150 FSP -620 SG1 5933.3 SG2 406.9 THA 3.50 EL1 1585.6 EL2 319.2 ALF 11.41

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 8 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 570.326

RL 147.58 LAL .00 LOL 139.06 VL 26.566 GAL 7.09 AZL 88.96 HCA 279.75 SMA 121.44 ECC .24667 INC 1.0415 V1 30.190
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.950 GAP 12.81 AZP 89.82 TAL 157.07 TAP 76.83 RCA 91.48 APO 151.40 V2 35.095
 RC 181.455 GL 5.64 GP -12.79 ZAL 52.32 ZAP 165.89 ETS 298.79 ZAE 129.26 ETE 190.45 ZAC 159.91 ETC 176.95 CLP-174.00

PLANETOCENTRIC CONIC

C3 23.787 VHL 4.877 OLA 29.05 RAL 86.53 RAD 6568.0 VEL 12.048 PTH 2.15 VHP 8.681 DPA 7.98 RAP 66.02 ECC 1.3915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.25 1 0 26 3758.86 -19.06 149.30 318.08 67.66 2 3 4 3158.9 -21.92 141.75
 96.75 2 52 5 3397.70 -19.05 122.82 318.08 67.65 3 48 43 2797.7 -21.91 115.26
 100.00 4 17 18 3124.25 -24.19 104.64 320.11 71.88 5 9 22 2524.2 -26.44 96.56
 100.00 2 17 54 3507.54 -14.07 128.56 315.71 63.35 3 16 22 2907.5 -17.54 121.48
 110.00 6 46 3 2658.44 -32.39 71.76 322.58 78.43 7 30 21 2058.4 -33.65 62.75
 110.00 2 5 39 3546.11 -6.72 127.14 311.38 56.41 3 4 45 2946.1 -11.09 120.78

DIFFERENTIAL CORRECTIONS

TOE .5025 TRA 3.4643 TC3-3.7360 BAU 1.1885
 ROE .3577 RRA .2367 RC3 -.0999 FAU .02114
 FOE .0340 FRA 1.3859 FC3 -.7695 BSP 19359
 BOE .6168 BRA 3.4724 BC3 3.7373 FSP -594

MID-COURSE EXECUTION ACCURACY

SGT 5941.4 SGR 536.0 SG3 173.5
 RRT .6544 RRF .6339 RTF .9578
 SGB 5965.5 R23 .0055 R13 .9578
 SG1 5951.8 SG2 404.6 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1520.2 SR 430.9 SS 420.5
 CRT .5826 CRS -.2905 CST -.9462
 LSA 1591.4 MSA 374.7 SSA 15.7
 EL1 1541.9 EL2 345.3 ALF 9.88

LAUNCH DATE FEB 8 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 575.650

RL 147.58 LAL .00 LOL 139.06 VL 26.530 GAL 7.79 AZL 89.13 HCA 282.97 SMA 121.23 ECC .25443 INC .8653 V1 30.190
 RP 107.94 LAP -.84 LOP 62.03 VP 36.936 GAP 13.36 AZP 89.81 TAL 155.61 TAP 78.58 RCA 90.38 APO 152.07 V2 35.108
 RC 183.384 GL 4.44 GP -12.44 ZAL 49.98 ZAP 166.58 ETS 295.83 ZAE 129.24 ETE 190.18 ZAC 162.09 ETC 175.65 CLP-174.93

PLANETOCENTRIC CONIC

C3 26.292 VHL 5.128 OLA 27.88 RAL 89.12 RAD 6568.1 VEL 12.152 PTH 2.18 VHP 9.000 DPA 8.81 RAP 68.16 ECC 1.4327
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 12 3461.32 -21.37 128.41 323.46 70.97 3 47 53 2861.3 -23.78 120.56
 90.00 1 23 3 3744.57 -14.11 146.01 320.40 65.19 2 25 28 3144.6 -17.34 138.82
 100.00 4 59 48 3043.49 -25.78 99.17 324.97 74.33 5 50 32 2443.5 -27.69 90.88
 100.00 1 56 8 3637.62 -9.98 136.05 318.28 61.68 2 56 45 3037.6 -13.69 129.22
 110.00 7 11 7 2632.53 -32.73 69.81 326.81 79.54 7 54 59 2032.5 -33.83 60.75
 110.00 2 1 19 3621.36 -3.87 131.11 314.57 56.01 3 1 40 3021.4 -8.31 124.83

DIFFERENTIAL CORRECTIONS

TOE .3539 TRA 3.8226 TC3-3.3721 BAU 1.1857
 ROE .3640 RRA .2542 RC3 -.0878 FAU .01929
 FOE -.0154 FRA 1.4377 FC3 -.6351 BSP 19478
 BOE .5077 BRA 3.8310 BC3 3.3732 FSP -574

MID-COURSE EXECUTION ACCURACY

SGT 5955.4 SGR 526.2 SG3 166.8
 RRT .6464 RRF .6258 RTF .9591
 SGB 5978.6 R23 .0040 R13 .9591
 SG1 5965.1 SG2 400.8 THA 3.28

ORBIT DETERMINATION ACCURACY

ST 1506.2 SR 418.0 SS 424.5
 CRT .4779 CRS -.2000 CST -.9556
 LSA 1572.7 MSA 387.3 SSA 15.0
 EL1 1520.3 EL2 363.8 ALF 8.02

LAUNCH DATE FEB 8 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 580.889

RL 147.58 LAL .00 LOL 139.06 VL 26.494 GAL 8.53 AZL 89.32 HCA 286.18 SMA 121.02 ECC .26290 INC .6844 V1 30.190
 RP 107.90 LAP -.66 LOP 65.24 VP 36.922 GAP 13.94 AZP 89.81 TAL 154.17 TAP 80.36 RCA 89.20 APO 152.83 V2 35.120
 RC 185.291 GL 3.32 GP -12.12 ZAL 47.76 ZAP 167.20 ETS 292.51 ZAE 129.21 ETE 189.92 ZAC 164.26 ETC 173.98 CLP-175.85

PLANETOCENTRIC CONIC

C3 29.221 VHL 5.406 OLA 26.76 RAL 91.55 RAD 6568.2 VEL 12.272 PTH 2.21 VHP 9.345 DPA 9.58 RAP 70.32 ECC 1.4809
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 43 3359.46 -23.48 121.69 328.48 73.70 4 34 42 2759.5 -25.49 113.60
 90.00 0 53 52 3899.03 -9.52 155.03 322.75 63.21 1 58 51 3299.0 -13.04 148.12
 100.00 5 32 10 2993.71 -26.65 95.73 329.43 75.94 6 22 4 2393.7 -28.32 87.32
 100.00 1 43 6 3740.01 -6.62 141.79 321.19 60.78 2 45 26 3140.0 -10.46 135.12
 110.00 7 33 42 2613.44 -32.96 68.37 330.95 80.36 8 17 15 2013.4 -33.94 59.27
 110.00 1 58 3 3693.04 -1.14 134.85 317.80 55.83 2 59 36 3093.0 -5.61 128.62

DIFFERENTIAL CORRECTIONS

TOE .2012 TRA 4.2025 TC3-3.0182 BAU 1.1794
 ROE .3709 RRA .2721 RC3 -.0764 FAU .01747
 FOE -.0612 FRA 1.4905 FC3 -.5177 BSP 19579
 BOE .4220 BRA 4.2113 BC3 3.0191 FSP -554

MID-COURSE EXECUTION ACCURACY

SGT 5964.6 SGR 515.5 SG3 160.4
 RRT .6389 RRF .6186 RTF .9605
 SGB 5986.9 R23 .0029 R13 .9606
 SG1 5973.8 SG2 395.9 THA 3.17

ORBIT DETERMINATION ACCURACY

ST 1514.8 SR 404.9 SS 432.0
 CRT .3734 CRS -.1198 CST -.9651
 LSA 1578.4 MSA 392.0 SSA 14.3
 EL1 1522.8 EL2 373.7 ALF 6.07

LAUNCH DATE FEB 8 1969

FLIGHT TIME 204.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 586.028

RL 147.58 LAL .00 LOL 139.06 VL 26.459 GAL 9.33 AZL 89.50 HCA 289.40 SMA 120.81 ECC .27216 INC .4973 V1 30.190
 RP 107.87 LAP -.47 LOP 68.46 VP 36.908 GAP 14.57 AZP 89.83 TAL 152.77 TAP 82.17 RCA 87.93 APO 153.69 V2 35.132
 RC 187.175 GL 2.27 GP -11.82 ZAL 45.67 ZAP 167.75 ETS 288.79 ZAE 129.16 ETE 189.68 ZAC 166.41 ETC 171.79 CLP-176.78

PLANETOCENTRIC CONIC

C3 32.643 VHL 5.713 OLA 25.67 RAL 93.80 RAD 6568.3 VEL 12.410 PTH 2.24 VHP 9.719 DPA 10.29 RAP 72.49 ECC 1.5372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 12 28 3304.00 -24.49 117.94 332.95 75.32 5 7 32 2704.0 -26.27 109.72
 90.00 0 38 7 4010.12 -6.05 161.35 325.59 62.29 1 44 57 3410.1 -9.72 154.59
 100.00 5 59 19 2959.49 -27.20 93.33 333.69 77.09 6 48 39 2359.5 -28.70 84.85
 100.00 1 33 56 3829.86 -3.61 146.77 324.24 60.31 2 37 46 3229.9 -7.53 140.18
 110.00 7 54 11 2600.11 -33.10 67.36 335.02 80.95 8 37 31 2000.1 -34.00 58.23
 110.00 1 55 34 3762.01 1.50 138.45 321.06 55.85 2 58 16 3162.0 -2.99 132.24

DIFFERENTIAL CORRECTIONS

TOE .0440 TRA 4.6058 TC3-2.6786 BAU 1.1693
 ROE .3784 RRA .2900 RC3 -.0656 FAU .01572
 FOE -.1039 FRA 1.5449 FC3 -.4169 BSP 19661
 BOE .3810 BRA 4.6149 BC3 2.6794 FSP -534

MID-COURSE EXECUTION ACCURACY

SGT 5969.4 SGR 503.7 SG3 154.4
 RRT .6317 RRF .6120 RTF .9622
 SGB 5990.6 R23 .0019 R13 .9622
 SG1 5977.9 SG2 389.9 THA 3.06

ORBIT DETERMINATION ACCURACY

ST 1540.8 SR 391.7 SS 441.9
 CRT .2747 CRS -.0506 CST -.9736
 LSA 1603.4 MSA 389.6 SSA 13.7
 EL1 1544.8 EL2 375.6 ALF 4.25

LAUNCH DATE FEB 8 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 591.050

RL 147.58 LAL .00 LOL 139.06 VL 26.424 GAL 10.19 AZL 89.70 MCA 292.62 SMA 120.61 ECC .28230 INC .3023 V1 30.190
 RP 107.83 LAP -.28 LOP 71.68 VP 36.895 GAP 15.26 AZP 89.88 TAL 151.40 TAP 84.02 RCA 86.56 APO 154.66 V2 35.144
 RC 189.037 GL 1.30 GP -11.55 ZAL 43.72 ZAP 168.23 ETS 284.67 ZAE 129.10 ETE 189.46 ZAC 168.52 ETC 168.77 CLP-177.73

PLANETOCENTRIC CONIC

C3 36.649 VHL 6.054 DLA 24.63 RAL 95.90 RAD 6568.4 VEL 12.571 PTH 2.28 VHP 10.126 DPA 10.95 RAP 74.68 ECC 1.6031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 59 3267.49 -25.10 115.44 337.20 76.44 5 34 27 2667.5 -26.72 107.14
 90.00 0 27 17 4105.05 -3.02 166.68 328.60 61.83 1 35 42 3505.1 -6.77 160.00
 100.00 6 22 55 2935.62 -27.55 91.64 337.82 77.92 7 11 51 2335.6 -28.94 83.11
 100.00 1 27 2 3912.16 -.82 151.29 327.38 60.12 2 32 14 3312.2 -4.79 144.75
 110.00 8 12 50 2591.76 -33.19 66.72 339.02 81.31 8 56 1 1991.8 -34.04 57.59
 110.00 1 53 37 3828.78 4.05 141.94 324.34 56.03 2 57 26 3228.8 -.44 135.73

DIFFERENTIAL CORRECTIONS

TOE -.1137 TRA 5.0395 TC3-2.3512 BAU 1.1523
 RDE .3867 RRA .3081 RC3 -.0551 FAU .01393
 FDE -.1422 FRA 1.6029 FC3 -.3290 BSP 19622
 BOE .4031 BRA 5.0489 BC3 2.3519 FSP -511

MID-COURSE EXECUTION ACCURACY

SGT 5970.6 SGR 491.3 SG3 148.7
 RRT .6252 RRF .6064 RTF .9640
 SGB 5990.8 R23 .0016 R13 .9640
 SG1 5978.6 SG2 382.9 THA 2.96

ORBIT DETERMINATION ACCURACY

ST 1580.1 SR 378.5 SS 453.7
 CRT .1878 CRS .0053 CST -.9807
 LSA 1643.1 MSA 381.8 SSA 13.2
 EL1 .1581.8 EL2 371.3 ALF 2.73

LAUNCH DATE FEB 8 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 595.930

RL 147.58 LAL .00 LOL 139.06 VL 26.390 GAL 11.11 AZL 89.90 MCA 295.85 SMA 120.41 ECC .29345 INC .0974 V1 30.190
 RP 107.79 LAP -.09 LOP 74.90 VP 36.881 GAP 16.00 AZP 89.96 TAL 150.07 TAP 85.92 RCA 85.08 APO 155.75 V2 35.155
 RC 190.875 GL .40 GP -11.30 ZAL 41.89 ZAP 168.62 ETS 280.12 ZAE 129.01 ETE 189.24 ZAC 170.58 ETC 164.42 CLP-178.69

PLANETOCENTRIC CONIC

C3 41.345 VHL 6.430 DLA 23.65 RAL 97.83 RAD 6568.6 VEL 12.756 PTH 2.32 VHP 10.570 DPA 11.55 RAP 76.88 ECC 1.6804
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 3 35 3242.69 -25.48 113.72 341.30 77.21 5 57 37 2642.7 -26.99 105.38
 90.00 0 19 8 4190.77 -.26 171.47 331.70 61.68 1 28 59 3590.8 -4.04 164.83
 100.00 6 43 49 2919.49 -27.77 90.49 341.85 78.48 7 32 29 2319.5 -29.08 81.93
 100.00 1 21 35 3989.21 1.79 155.52 330.56 60.16 2 28 4 3389.2 -2.19 148.99
 110.00 8 29 50 2587.80 -33.23 66.42 342.97 81.49 9 12 58 1987.8 -34.05 57.28
 110.00 1 52 3 3893.66 6.50 145.35 327.63 56.37 2 56 56 3293.7 2.04 139.11

DIFFERENTIAL CORRECTIONS

TOE -.2823 TRA 5.4965 TC3-2.0493 BAU 1.1330
 RDE .3952 RRA .3256 RC3 -.0458 FAU .01227
 FDE -.1803 FRA 1.6616 FC3 -.2569 BSP 19696
 BOE .4857 BRA 5.5061 BC3 2.0498 FSP -493

MID-COURSE EXECUTION ACCURACY

SGT 5966.2 SGR 477.2 SG3 143.2
 RRT .6181 RRF .6002 RTF .9660
 SGB 5985.2 R23 .0009 R13 .9660
 SG1 5973.5 SG2 374.7 THA 2.84

ORBIT DETERMINATION ACCURACY

ST 1625.5 SR 364.7 SS 466.6
 CRT .1079 CRS .0562 CST -.9861
 LSA 1689.9 MSA 370.3 SSA 12.6
 EL1 1626.0 EL2 362.5 ALF 1.46

LAUNCH DATE FEB 8 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 600.642

RL 147.58 LAL .00 LOL 139.06 VL 26.357 GAL 12.10 AZL 90.12 MCA 299.07 SMA 120.22 ECC .30572 INC .1168 V1 30.190
 RP 107.76 LAP .10 LOP 78.13 VP 36.868 GAP 16.81 AZP 90.06 TAL 148.80 TAP 87.87 RCA 83.47 APO 156.98 V2 35.166
 RC 192.690 GL -.44 GP -11.07 ZAL 40.20 ZAP 168.92 ETS 275.18 ZAE 128.89 ETE 189.04 ZAC 172.54 ETC 157.75 CLP-179.67

PLANETOCENTRIC CONIC

C3 46.867 VHL 6.846 DLA 22.71 RAL 99.61 RAD 6568.8 VEL 12.970 PTH 2.37 VHP 11.057 DPA 12.10 RAP 79.08 ECC 1.7713
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 15 3226.30 -25.72 112.58 345.27 77.74 6 18 1 2626.3 -27.16 104.21
 90.00 0 12 41 4270.25 2.30 175.90 334.85 61.77 1 23 51 3670.2 -1.49 169.27
 100.00 7 2 30 2909.54 -27.91 89.78 345.78 78.83 7 50 59 2309.5 -29.16 81.21
 100.00 1 17 8 4062.25 4.26 159.53 333.77 60.38 2 24 50 3462.2 .28 153.00
 110.00 8 45 22 2587.71 -33.23 66.41 346.85 81.49 9 28 29 1987.7 -34.05 57.27
 110.00 1 50 45 3956.83 8.87 148.71 330.93 56.85 2 56 42 3356.8 4.45 142.42

DIFFERENTIAL CORRECTIONS

TOE -.4564 TRA 5.9855 TC3-1.7668 BAU 1.1073
 RDE .4041 RRA .3424 RC3 -.0372 FAU .01063
 FDE -.2163 FRA 1.7241 FC3 -.1964 BSP 19744
 BOE .6096 BRA 5.9953 BC3 1.7672 FSP -475

MID-COURSE EXECUTION ACCURACY

SGT 5957.1 SGR 462.0 SG3 138.0
 RRT .6107 RRF .5940 RTF .9682
 SGB 5975.0 R23 .0005 R13 .9682
 SG1 5963.8 SG2 365.4 THA 2.72

ORBIT DETERMINATION ACCURACY

ST 1674.9 SR 350.8 SS 480.5
 CRT .0387 CRS .0990 CST -.9902
 LSA 1741.3 MSA 356.4 SSA 12.1
 EL1 1674.9 EL2 350.5 ALF .49

LAUNCH DATE FEB 8 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 605.153

RL 147.58 LAL .00 LOL 139.06 VL 26.324 GAL 13.19 AZL 90.35 MCA 302.30 SMA 120.03 ECC .31929 INC .3472 V1 30.190
 RP 107.73 LAP .29 LOP 81.36 VP 36.854 GAP 17.70 AZP 90.19 TAL 147.59 TAP 89.89 RCA 81.71 APO 158.36 V2 35.177
 RC 194.480 GL -1.22 GP -10.86 ZAL 38.64 ZAP 169.12 ETS 269.85 ZAE 128.74 ETE 188.84 ZAC 174.30 ETC 146.76 CLP 179.32

PLANETOCENTRIC CONIC

C3 53.384 VHL 7.306 DLA 21.82 RAL 101.25 RAD 6568.9 VEL 13.219 PTH 2.41 VHP 11.593 DPA 12.59 RAP 81.27 ECC 1.8786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 35 3216.44 -25.86 111.89 349.14 78.05 6 36 12 2616.4 -27.25 103.50
 90.00 0 7 24 4345.00 4.70 180.08 338.02 62.04 1 19 49 3745.0 .93 173.44
 100.00 7 19 16 2904.69 -27.97 89.44 349.62 79.00 8 7 41 2304.7 -29.20 80.85
 100.00 1 13 24 4131.98 6.59 163.40 336.98 60.78 2 22 16 3532.0 2.65 156.83
 110.00 8 59 31 2591.06 -33.20 66.67 350.67 81.34 9 42 42 1991.1 -34.04 57.53
 110.00 1 49 39 4018.38 11.14 152.03 334.23 57.47 2 56 37 3418.4 6.78 145.66

DIFFERENTIAL CORRECTIONS

TOE -.6295 TRA 6.5109 TC3-1.5052 BAU 1.0745
 RDE .4135 RRA .3582 RC3 -.0294 FAU .00900
 FDE -.2507 FRA 1.7908 FC3 -.1460 BSP 19931
 BOE .7531 BRA 6.5208 BC3 1.5055 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 5943.8 SGR 445.6 SG3 133.1
 RRT .6036 RRF .5874 RTF .9706
 SGB 5960.4 R23 -.0006 R13 .9706
 SG1 5949.9 SG2 354.9 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 1723.4 SR 336.7 SS 495.4
 CRT -.0176 CRS .1354 CST -.9927
 LSA 1792.3 MSA 341.3 SSA 11.5
 EL1 1723.4 EL2 336.7 ALF 179.80

LAUNCH DATE FEB 8 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 609.417

RL 147.58 LAL .00 LOL 139.06 VL 26.292 GAL 14.37 AZL 90.59 HCA 305.52 SMA 119.85 ECC .33433 INC .5942 VI 30.190
 RP 107.70 LAP .48 LOP 84.58 VP 36.841 GAP 18.68 AZP 90.35 TAL 146.46 TAP 91.98 RCA 79.78 APO 159.92 V2 35.187
 RC 196.245 GL -1.94 GP -10.66 ZAL 37.21 ZAP 169.20 ETS 264.23 ZAE 128.55 ETE 188.65 ZAC 175.68 ETC 127.78 CLP 178.28

PLANETOCENTRIC CONIC

C3 61.111 VHL 7.817 DLA 20.98 RAL 102.74 RAD 6569.1 VEL 13.508 PTH 2.47 VHP 12.186 DPA 13.03 RAP 83.44 ECC 2.0057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 58 56 3211.85 -25.93 111.57 352.90 78.20 6 52 28 2611.9 -27.30 103.17
 90.00 0 2 56 4415.89 6.95 184.08 341.19 62.48 1 16 32 3815.9 3.21 177.40
 100.00 7 34 21 2904.15 -27.98 89.40 353.36 79.02 8 22 46 2304.2 -29.21 80.81
 100.00 1 10 11 4198.82 8.79 167.13 340.20 61.32 2 20 10 3598.8 4.90 160.51
 110.00 9 12 23 2597.45 -33.13 67.16 354.41 81.06 9 55 41 1997.4 -34.01 58.03
 110.00 1 48 39 4078.29 13.32 155.31 337.51 58.22 2 56 37 3478.3 9.02 148.85

DIFFERENTIAL CORRECTIONS

TDE -.8253 TRA 7.0765 TC3 -1.2626 BAU 1.0317
 RDE .4235 RRA .3726 RC3 -.0222 FAU .00735
 FDE -.2838 FRA 1.8631 FC3 -.1041 BSP 19794
 BOE .9277 BRA 7.0863 BC3 1.2628 FSP -442

MID-COURSE EXECUTION ACCURACY

SGT 5926.2 SGR 428.0 SG3 128.4
 RRT .5937 RRF .5800 RTF .9732
 SGB 5941.6 R23 .0003 R13 .9732
 SG1 5931.7 SG2 344.0 THA 2.46

ORBIT DETERMINATION ACCURACY

ST 1773.9 SR 322.6 SS 511.3
 CRT -.0725 CRS .1663 CST -.9953
 LSA 1845.6 MSA 324.9 SSA 11.0
 EL1 1774.0 EL2 321.7 ALF 179.22

LAUNCH DATE FEB 8 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 613.381

RL 147.58 LAL .00 LOL 139.06 VL 26.261 GAL 15.66 AZL 90.86 HCA 308.75 SMA 119.67 ECC .35107 INC .8622 VI 30.190
 RP 107.67 LAP .67 LOP 87.81 VP 36.828 GAP 19.76 AZP 90.54 TAL 145.41 TAP 94.16 RCA 77.66 APO 161.69 V2 35.196
 RC 197.986 GL -2.60 GP -10.48 ZAL 35.93 ZAP 169.15 ETS 258.38 ZAE 128.32 ETE 188.45 ZAC 176.24 ETC 98.76 CLP 177.20

PLANETOCENTRIC CONIC

C3 70.320 VHL 8.386 DLA 20.20 RAL 104.08 RAD 6569.4 VEL 13.845 PTH 2.53 VHP 12.845 DPA 13.42 RAP 85.59 ECC 2.1573
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 32 3211.62 -25.93 111.56 356.54 78.21 7 7 3 2611.6 -27.30 103.16
 90.00 23 55 7 4483.38 9.05 187.93 344.34 63.05 25 9 50 3883.4 5.37 181.18
 100.00 7 47 55 2907.27 -27.94 89.62 356.99 78.91 8 36 22 2307.3 -29.18 81.04
 100.00 1 7 21 4262.98 10.87 170.77 343.38 61.98 2 18 24 3663.0 7.04 164.07
 110.00 9 24 3 2606.49 -33.03 67.84 358.06 80.67 10 7 30 2006.5 -33.97 58.73
 110.00 1 47 42 4136.52 15.38 158.56 340.77 59.09 2 56 38 3536.5 11.17 151.99

DIFFERENTIAL CORRECTIONS

TDE -1.0187 TRA 7.6914 TC3 -1.0391 BAU .9769
 RDE .4344 RRA .3852 RC3 -.0159 FAU .00563
 FDE -.3152 FRA 1.9428 FC3 -.0693 BSP 19716
 BOE 1.1075 BRA 7.7011 BC3 1.0392 FSP -424

MID-COURSE EXECUTION ACCURACY

SGT 5905.6 SGR 409.2 SG3 124.0
 RRT .5835 RRF .5717 RTF .9759
 SGB 5919.8 R23 .0006 R13 .9759
 SG1 5910.5 SG2 332.0 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 1819.1 SR 308.5 SS 528.1
 CRT -.1162 CRS .1922 CST -.9968
 LSA 1894.2 MSA 308.6 SSA 10.5
 EL1 1819.5 EL2 306.3 ALF 178.84

LAUNCH DATE FEB 8 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 616.972

RL 147.58 LAL .00 LOL 139.06 VL 26.231 GAL 17.08 AZL 91.16 HCA 311.98 SMA 119.50 ECC .36976 INC 1.1558 VI 30.190
 RP 107.64 LAP .86 LOP 91.05 VP 36.815 GAP 20.97 AZP 90.77 TAL 144.48 TAP 96.46 RCA 75.32 APO 163.69 V2 35.205
 RC 199.701 GL -3.21 GP -10.32 ZAL 34.78 ZAP 168.97 ETS 252.40 ZAE 128.03 ETE 188.26 ZAC 175.74 ETC 70.00 CLP 176.07

PLANETOCENTRIC CONIC

C3 81.365 VHL 9.020 DLA 19.47 RAL 105.28 RAD 6569.6 VEL 14.238 PTH 2.59 VHP 13.582 DPA 13.76 RAP 87.69 ECC 2.3391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 31 3215.04 -25.88 111.80 .05 78.10 7 20 6 2615.0 -27.27 103.40
 90.00 23 51 39 4547.70 11.01 191.63 347.45 63.75 25 7 27 3947.7 7.40 184.82
 100.00 8 0 2 2913.48 -27.86 90.07 .50 78.69 8 48 36 2313.5 -29.13 81.50
 100.00 1 4 45 4324.49 12.81 174.30 346.53 62.76 2 16 50 3724.5 9.06 167.52
 110.00 9 34 33 2617.81 -32.91 68.70 1.59 80.17 10 18 10 2017.8 -33.91 59.61
 110.00 1 46 44 4192.92 17.32 161.78 343.98 60.06 2 56 37 3592.9 13.21 155.08

DIFFERENTIAL CORRECTIONS

TDE -1.2255 TRA 8.3540 TC3 -.8375 BAU .9111
 RDE .4457 RRA .3948 RC3 -.0104 FAU .00388
 FDE -.3476 FRA 2.0292 FC3 -.0413 BSP 19720
 BOE 1.3041 BRA 8.3633 BC3 .8376 FSP -410

MID-COURSE EXECUTION ACCURACY

SGT 5879.2 SGR 388.9 SG3 119.8
 RRT .5708 RRF .5609 RTF .9786
 SGB 5892.1 R23 .0009 R13 .9786
 SG1 5883.4 SG2 319.1 THA 2.17

ORBIT DETERMINATION ACCURACY

ST 1859.8 SR 294.1 SS 546.6
 CRT -.1565 CRS .2173 CST -.9979
 LSA 1938.8 MSA 292.0 SSA 10.0
 EL1 1860.4 EL2 290.4 ALF 178.55

LAUNCH DATE FEB 8 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 620.100

RL 147.58 LAL .00 LOL 139.06 VL 26.202 GAL 18.67 AZL 91.48 HCA 315.21 SMA 119.34 ECC .39072 INC 1.4809 VI 30.190
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.802 GAP 22.33 AZP 91.05 TAL 143.67 TAP 98.88 RCA 72.71 APO 165.97 V2 35.213
 RC 201.391 GL -3.78 GP -10.16 ZAL 33.78 ZAP 168.63 ETS 246.41 ZAE 127.68 ETE 188.06 ZAC 174.50 ETC 51.41 CLP 174.88

PLANETOCENTRIC CONIC

C3 94.703 VHL 9.732 DLA 18.79 RAL 106.32 RAD 6569.8 VEL 14.699 PTH 2.66 VHP 14.410 DPA 14.05 RAP 89.75 ECC 2.5586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 1 3221.49 -25.79 112.25 3.41 77.89 7 31 42 2621.5 -27.20 103.86
 90.00 23 48 29 4608.92 12.83 195.21 350.49 64.54 25 5 18 4008.9 9.30 188.31
 100.00 8 10 47 2922.31 -27.74 90.70 3.86 78.38 8 59 30 2322.3 -29.06 82.14
 100.00 1 2 19 4383.33 14.62 177.73 349.59 63.63 2 15 22 3783.3 10.96 170.86
 110.00 9 43 53 2631.08 -32.75 69.71 4.99 79.60 10 27 44 2031.1 -33.84 60.64
 110.00 1 45 43 4247.33 19.14 164.95 347.12 61.12 2 56 30 3647.3 15.14 158.11

DIFFERENTIAL CORRECTIONS

TDE -1.4425 TRA 9.0762 TC3 -.6545 BAU .8287
 RDE .4580 RRA .4008 RC3 -.0058 FAU .00201
 FDE -.3798 FRA 2.1252 FC3 -.0184 BSP 19694
 BOE 1.5135 BRA 9.0851 BC3 .6545 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 5848.6 SGR 367.4 SG3 115.9
 RRT .5550 RRF .5472 RTF .9813
 SGB 5860.1 R23 .0013 R13 .9813
 SG1 5852.2 SG2 305.5 THA 2.00

ORBIT DETERMINATION ACCURACY

ST 1894.8 SR 279.9 SS 566.8
 CRT -.1931 CRS .2406 CST -.9987
 LSA 1978.4 MSA 275.5 SSA 9.5
 EL1 1895.6 EL2 274.5 ALF 178.33

LAUNCH DATE FEB 9 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 20 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 25.624 GAL -4.32 AZL 87.78 HCA 76.82 SMA 116.25 ECC .27934 INC 2.2196 V1 30.185
 RP 108.15 LAP 2.16 LOP 216.88 VP 36.230 GAP -15.73 AZP 89.49 TAL 191.33 TAP 268.15 RCA 83.77 APO 148.72 V2 35.040
 RC 45.309 GL 10.86 GP 10.69 ZAL 115.18 ZAP 10.76 ETS 266.01 ZAE 154.74 ETE 6.11 ZAC 126.88 ETC 155.67 CLP 1.25

PLANETOCENTRIC CONIC
 C3 27.611 VHL 5.255 DLA 19.52 RAL 18.39 RAD 6568.1 VEL 12.206 PTH 2.19 VHP 10.242 DPA 22.15 RAP 32.27 ECC 1.4544
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 22 2951.03 -28.20 92.86 252.97 87.28 1 24 33 2351.0 -28.28 84.20
 90.00 18 1 43 4279.16 2.59 176.40 244.36 61.79 19 13 3 3679.2 -1.20 169.77
 100.00 2 8 57 2649.27 -29.86 70.73 253.04 88.64 2 53 6 2049.3 -29.73 61.93
 100.00 19 10 50 4056.15 4.05 159.20 243.55 60.36 20 18 26 3456.2 .08 152.67
 110.00 3 43 34 2353.23 -34.12 48.21 253.00 92.20 4 22 48 1753.2 -33.44 39.04
 110.00 19 52 42 3924.96 7.68 147.01 241.31 56.59 20 58 7 3325.0 3.23 140.75

DIFFERENTIAL CORRECTIONS
 TDE -.2895 TRA -.4680 TC3 .3862 BAU .1442
 RDE -.3732 RRA .1199 RC3 .0585 FAU .02861
 FDE .1600 FRA .0852 FC3 -.8971 BSP 2113
 BDE .4723 BRA .4832 BC3 .3906 FSP -200

MID-COURSE EXECUTION ACCURACY
 SGT 746.7 SGR 434.3 SG3 83.3
 RRT .2414 RRF -.2754 RTF -.6823
 SGB 863.8 R23 -.0377 R13 -.6908
 SG1 757.3 SG2 415.6 THA 11.50

ORBIT DETERMINATION ACCURACY
 ST 355.2 SR 409.0 SS 158.5
 CRT .8377 CRS .9524 CST .9461
 LSA 543.0 MSA 152.8 SSA 21.0
 EL1 519.8 EL2 152.7 ALF 49.79

LAUNCH DATE FEB 9 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 25.885 GAL -4.36 AZL 87.96 HCA 80.02 SMA 117.63 ECC .26519 INC 2.0423 V1 30.185
 RP 108.19 LAP 2.01 LOP 220.09 VP 36.402 GAP -14.69 AZP 89.65 TAL 192.31 TAP 272.34 RCA 86.44 APO 148.83 V2 35.027
 RC 46.364 GL 10.54 GP 11.33 ZAL 116.89 ZAP 11.36 ETS 276.91 ZAE 152.81 ETE 7.81 ZAC 127.58 ETC 154.68 CLP -.82

PLANETOCENTRIC CONIC
 C3 25.285 VHL 5.028 DLA 18.58 RAL 16.87 RAD 6568.0 VEL 12.110 PTH 2.17 VHP 9.657 DPA 23.16 RAP 33.13 ECC 1.4161
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 29 2891.17 -28.31 88.49 249.38 89.47 1 27 40 2291.2 -28.09 79.83
 90.00 17 45 28 4295.40 3.11 177.31 241.26 61.84 18 57 4 3695.4 -.68 170.67
 100.00 2 12 3 2592.68 -29.88 66.53 249.37 90.85 2 55 16 1992.7 -29.44 57.75
 100.00 18 55 36 4069.12 4.49 159.91 240.50 60.42 20 3 25 3469.1 .52 153.38
 110.00 3 44 42 2302.78 -33.92 44.29 249.15 94.51 4 23 5 1702.8 -32.92 35.19
 110.00 19 39 26 3931.78 7.94 147.38 238.38 56.64 20 44 57 3331.8 3.49 141.11

DIFFERENTIAL CORRECTIONS
 TDE -.2830 TRA -.4434 TC3 .4555 BAU .1565
 RDE -.3586 RRA .1195 RC3 .0826 FAU .03082
 FDE .1537 FRA .0651 FC3 -1.0554 BSP 2229
 BDE .4569 BRA .4593 BC3 .4629 FSP -228

MID-COURSE EXECUTION ACCURACY
 SGT 773.3 SGR 441.1 SG3 93.2
 RRT .2734 RRF -.3121 RTF -.7007
 SGB 890.2 R23 -.0433 R13 -.7105
 SG1 786.5 SG2 417.2 THA 12.40

ORBIT DETERMINATION ACCURACY
 ST 360.2 SR 410.9 SS 149.8
 CRT .8439 CRS .9573 CST .9381
 LSA 545.6 MSA 151.2 SSA 22.6
 EL1 525.1 EL2 151.2 ALF 49.45

LAUNCH DATE FEB 9 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.123 GAL -4.42 AZL 88.13 HCA 83.22 SMA 118.94 ECC .25237 INC 1.8686 V1 30.185
 RP 108.23 LAP 1.86 LOP 223.29 VP 36.559 GAP -13.69 AZP 89.78 TAL 193.35 TAP 276.58 RCA 88.92 APO 148.95 V2 35.013
 RC 47.558 GL 10.13 GP 12.03 ZAL 118.66 ZAP 12.38 ETS 286.61 ZAE 151.05 ETE 9.48 ZAC 128.18 ETC 153.63 CLP -2.94

PLANETOCENTRIC CONIC
 C3 23.325 VHL 4.830 DLA 17.52 RAL 15.35 RAD 6567.9 VEL 12.029 PTH 2.15 VHP 9.104 DPA 24.22 RAP 33.91 ECC 1.3839
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 18 2830.31 -28.27 84.04 245.88 91.70 1 31 28 2230.3 -27.73 75.41
 90.00 17 28 34 4316.66 3.80 178.50 238.30 61.92 18 40 31 3716.7 .01 171.86
 100.00 2 15 50 2535.11 -29.75 62.25 245.81 93.10 2 58 5 1935.1 -29.00 53.53
 100.00 18 39 43 4087.10 5.09 160.91 237.59 60.50 19 47 50 3487.1 1.12 154.36
 110.00 3 46 29 2251.53 -33.57 40.33 245.42 96.83 4 24 0 1651.5 -32.27 31.34
 110.00 19 25 34 3943.44 8.37 148.00 235.57 56.74 20 31 17 3343.4 3.94 141.72

DIFFERENTIAL CORRECTIONS
 TDE -.2749 TRA -.4199 TC3 .5286 BAU .1685
 RDE -.3447 RRA .1200 RC3 .1121 FAU .03332
 FDE .1435 FRA .0417 FC3 -1.2365 BSP 2347
 BDE .4409 BRA .4367 BC3 .5403 FSP -260

MID-COURSE EXECUTION ACCURACY
 SGT 799.9 SGR 448.6 SG3 104.3
 RRT .3084 RRF -.3529 RTF -.7168
 SGB 917.1 R23 -.0508 R13 -.7283
 SG1 816.2 SG2 418.2 THA 13.39

ORBIT DETERMINATION ACCURACY
 ST 362.1 SR 411.4 SS 137.4
 CRT .8484 CRS .9608 CST .9250
 LSA 544.3 MSA 149.6 SSA 24.5
 EL1 527.3 EL2 149.6 ALF 49.29

LAUNCH DATE FEB 9 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.338 GAL -4.48 AZL 88.30 HCA 86.42 SMA 120.15 ECC .24079 INC 1.6972 V1 30.185
 RP 108.27 LAP 1.69 LOP 226.49 VP 36.700 GAP -12.75 AZP 89.89 TAL 194.44 TAP 280.86 RCA 91.22 APO 149.08 V2 35.000
 RC 48.883 GL 9.62 GP 12.81 ZAL 120.46 ZAP 13.78 ETS 294.81 ZAE 149.46 ETE 11.17 ZAC 128.66 ETC 152.52 CLP -5.11

PLANETOCENTRIC CONIC
 C3 21.676 VHL 4.656 DLA 16.37 RAL 13.86 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 8.581 DPA 25.32 RAP 34.60 ECC 1.3567
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 49 45 2768.97 -28.06 79.56 242.51 93.94 1 35 54 2169.0 -27.22 71.00
 90.00 17 11 15 4342.42 4.62 179.94 235.51 62.03 18 23 38 3742.4 .84 173.30
 100.00 2 20 17 2477.01 -29.46 57.96 242.38 95.34 3 1 34 1877.0 -28.40 49.31
 100.00 18 23 24 4109.61 5.84 162.15 234.84 60.63 19 31 54 3509.6 1.89 155.60
 110.00 3 48 53 2199.81 -33.09 36.37 241.85 99.13 4 25 32 1599.8 -31.47 27.51
 110.00 19 11 18 3959.57 8.97 148.86 232.93 56.88 20 17 18 3359.6 4.55 142.56

DIFFERENTIAL CORRECTIONS
 TDE -.2651 TRA -.3968 TC3 .6037 BAU .1801
 RDE -.3314 RRA .1212 RC3 .1475 FAU .03610
 FDE .1294 FRA .0154 FC3 -1.4418 BSP 2462
 BDE .4244 BRA .4149 BC3 .6214 FSP -297

MID-COURSE EXECUTION ACCURACY
 SGT 825.5 SGR 457.5 SG3 116.8
 RRT .3472 RRF -.3980 RTF -.7317
 SGB 943.8 R23 -.0592 R13 -.7453
 SG1 845.8 SG2 418.8 THA 14.52

ORBIT DETERMINATION ACCURACY
 ST 360.6 SR 410.5 SS 121.8
 CRT .8512 CRS .9609 CST .9032
 LSA 539.3 MSA 147.9 SSA 26.6
 EL1 526.0 EL2 147.7 ALF 49.34

LAUNCH DATE FEB 9 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 203.589

RL 147.60 LAL .00 LOL 140.07 VL 26.533 GAL -4.54 AZL 88.47 HCA 89.61 SMA 121.28 ECC .23037 INC 1.5272 VI 30.185
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.828 GAP -11.84 AZP 89.99 TAL 195.56 TAP 285.18 RCA 93.34 APO 149.22 V2 34.987
 RC 50.327 GL 9.00 GP 13.68 ZAL 122.28 ZAP 15.50 ETS 301.53 ZAE 148.07 ETE 12.90 ZAC 129.01 ETC 151.36 CLP -7.36

PLANETOCENTRIC CONIC

C3 20.292 VHL 4.505 DLA 15.11 RAL 12.43 RAD 6567.8 VEL 11.903 PTH 2.11 VHP 8.087 OPA 26.48 RAP 35.19 ECC 1.3339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 55 48 2707.57 -27.70 75.11 239.32 96.14 1 40 55 2107.6 -26.56 66.63
 90.00 16 53 48 4372.13 5.57 181.61 232.93 62.19 18 6 40 3772.1 1.80 174.95
 100.00 2 25 21 2418.76 -29.01 53.69 239.14 97.54 3 5 40 1818.8 -27.66 45.14
 100.00 18 6 55 4136.17 6.73 163.63 232.30 60.81 19 15 52 3536.2 2.79 157.06
 110.00 3 51 54 2147.94 -32.46 32.45 238.47 101.36 4 27 42 1547.9 -30.55 23.75
 110.00 18 56 52 3979.76 9.72 149.94 230.47 57.07 20 3 11 3379.8 5.32 143.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2536 TRA -.4505 TC3 .6786 BAU .1911 SGT 849.3 SGR 468.4 SG3 130.8 ST 355.4 SR 407.8 SS 103.2
 RDE -.3183 RRA .1233 RC3 .1894 FAU .03921 RRT .3892 RRF -.4473 RTF -.7447 CRT .8520 CRS .9528 CST .8631
 FDE .1104 FRA -.0144 FC3-1.6728 BSP 2571 SGB 969.9 R23 -.0692 R13 -.7609 LSA 530.1 MSA 146.2 SSA 29.0
 BOE .4070 BRA .3942 BC3 .7045 FSP -338 SG1 874.7 SG2 418.9 THA 15.84 EL1 520.9 EL2 145.6 ALF 49.60

LAUNCH DATE FEB 9 1969

FLIGHT TIME 80.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 210.320

RL 147.60 LAL .00 LOL 140.07 VL 26.709 GAL -4.61 AZL 88.64 HCA 92.81 SMA 122.33 ECC .22104 INC 1.3574 VI 30.185
 RP 108.36 LAP 1.36 LOP 232.88 VP 36.943 GAP -10.98 AZP 90.07 TAL 196.71 TAP 289.51 RCA 95.29 APO 149.37 V2 34.974
 RC 51.881 GL 8.29 GP 14.64 ZAL 124.07 ZAP 17.50 ETS 306.97 ZAE 146.86 ETE 14.73 ZAC 129.20 ETC 150.17 CLP -9.70

PLANETOCENTRIC CONIC

C3 19.131 VHL 4.374 DLA 13.77 RAL 11.08 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 7.622 OPA 27.68 RAP 35.65 ECC 1.3148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 2 25 2646.44 -27.17 70.71 236.33 98.29 1 46 32 2046.4 -25.75 62.33
 90.00 16 36 22 4405.30 6.62 183.48 230.57 62.40 17 49 48 3805.3 2.87 176.81
 100.00 2 31 1 2360.69 -28.42 49.47 236.10 99.69 3 10 22 1760.7 -26.79 41.05
 100.00 17 50 27 4166.28 7.73 165.31 229.97 61.03 18 59 54 3566.3 3.80 158.72
 110.00 3 55 34 2096.18 -31.70 28.61 235.33 103.52 4 30 30 1496.2 -29.51 20.08
 110.00 18 42 24 4003.56 10.60 151.23 228.23 57.31 19 49 8 3403.6 6.22 144.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2384 TRA -.3511 TC3 .7557 BAU .2027 SGT 871.1 SGR 482.1 SG3 146.6 ST 343.7 SR 402.8 SS 81.1
 RDE -.3049 RRA .1264 RC3 .2392 FAU .04274 RRT .4343 RRF -.5005 RTF -.7590 CRT .8497 CRS .9164 CST .7724
 FDE .0844 FRA -.0489 FC3-1.9343 BSP 2719 SGB 995.6 R23 -.0789 R13 -.7783 LSA 514.9 MSA 144.3 SSA 31.9
 BOE .3871 BRA .3731 BC3 .7927 FSP -388 SG1 903.2 SG2 418.8 THA 17.36 EL1 509.8 EL2 143.2 ALF 50.31

LAUNCH DATE FEB 9 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 217.039

RL 147.60 LAL .00 LOL 140.07 VL 26.868 GAL -4.67 AZL 88.81 HCA 96.00 SMA 123.30 ECC .21272 INC 1.1869 VI 30.185
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.045 GAP -10.16 AZP 90.12 TAL 197.85 TAP 293.85 RCA 97.07 APO 149.52 V2 34.961
 RC 53.536 GL 7.48 GP 15.71 ZAL 125.82 ZAP 19.75 ETS 311.37 ZAE 145.83 ETE 16.69 ZAC 129.23 ETC 148.94 CLP -12.12

PLANETOCENTRIC CONIC

C3 18.160 VHL 4.261 DLA 12.37 RAL 9.82 RAD 6567.7 VEL 11.813 PTH 2.09 VHP 7.185 OPA 28.95 RAP 35.97 ECC 1.2989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 9 36 2585.85 -26.51 66.40 233.56 100.35 1 52 42 1985.8 -24.81 58.15
 90.00 16 19 11 4441.42 7.75 185.53 228.46 62.68 17 33 12 3841.4 4.03 178.83
 100.00 2 37 17 2303.06 -27.69 45.34 233.31 101.74 3 15 40 1703.1 -25.79 37.06
 100.00 17 34 11 4199.44 8.81 167.17 227.89 61.32 18 44 11 3599.4 4.92 160.55
 110.00 3 59 50 2044.74 -30.82 24.86 232.43 105.58 4 33 55 1444.7 -28.37 16.51
 110.00 18 28 7 4030.52 11.59 152.69 226.23 57.61 19 35 18 3430.5 7.23 146.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2234 TRA -.3308 TC3 .8253 BAU .2129 SGT 890.1 SGR 499.6 SG3 164.1 ST 330.7 SR 395.5 SS 60.3
 RDE -.2913 RRA .1303 RC3 .2969 FAU .04663 RRT .4812 RRF -.5565 RTF -.7688 CRT .8449 CRS .9779 CST .5439
 FDE .0523 FRA -.0860 FC3-2.2231 BSP 2822 SGB 1020.8 R23 -.0917 R13 -.7924 LSA 497.7 MSA 143.1 SSA 35.0
 BOE .3671 BRA .3555 BC3 .8771 FSP -441 SG1 930.9 SG2 418.8 THA 19.13 EL1 495.8 EL2 141.1 ALF 51.01

LAUNCH DATE FEB 9 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 223.744

RL 147.60 LAL .00 LOL 140.07 VL 27.010 GAL -4.74 AZL 88.99 HCA 99.18 SMA 124.18 ECC .20533 INC 1.0144 VI 30.185
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.136 GAP -9.37 AZP 90.16 TAL 198.99 TAP 298.17 RCA 98.68 APO 149.68 V2 34.948
 RC 55.282 GL 6.57 GP 16.90 ZAL 127.50 ZAP 22.23 ETS 314.97 ZAE 144.98 ETE 18.84 ZAC 129.08 ETC 147.71 CLP -14.66

PLANETOCENTRIC CONIC

C3 17.349 VHL 4.165 DLA 10.90 RAL 8.68 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 6.775 OPA 30.29 RAP 36.12 ECC 1.2855
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 17 20 2525.94 -25.70 62.20 231.05 102.31 1 59 26 1925.9 -23.75 54.07
 90.00 16 2 21 4480.09 8.95 187.74 226.61 63.02 17 17 1 3880.1 5.26 181.00
 100.00 2 44 8 2246.01 -26.83 41.32 230.76 103.69 3 21 34 1646.0 -24.68 33.18
 100.00 17 18 15 4235.25 9.98 169.19 226.07 61.68 18 28 50 3635.2 6.12 162.53
 110.00 4 4 44 1993.77 -29.83 21.22 229.81 107.53 4 37 58 1393.8 -27.14 13.06
 110.00 18 14 8 4060.25 12.67 154.32 224.47 57.98 19 21 48 3460.3 8.35 147.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2071 TRA -.3119 TC3 .8879 BAU .2225 SGT 905.1 SGR 522.2 SG3 183.6 ST 314.3 SR 385.3 SS 49.5
 RDE -.2770 RRA .1351 RC3 .3635 FAU .05093 RRT .5285 RRF -.6139 RTF -.7766 CRT .8362 CRS .3091 CST -.0270
 FDE .0124 FRA -.1265 FC3-2.5417 BSP 2916 SGB 1044.9 R23 -.1061 R13 -.8058 LSA 477.5 MSA 142.3 SSA 38.5
 BOE .3458 BRA .3399 BC3 .9594 FSP -500 SG1 957.1 SG2 419.1 THA 21.22 EL1 477.4 EL2 139.1 ALF 51.89

LAUNCH DATE FEB 9 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.137 GAL -4.80 AZL 89.16 HCA 102.37 SMA 124.99 ECC .19879 INC .8390 V1 30.185
 RP 108.47 LAP .82 LOP 242.44 VP 37.217 GAP -8.62 AZP 90.18 TAL 200.09 TAP 302.46 RCA 100.14 APO 149.83 V2 34.936
 RC 57.109 GL 5.57 GP 18.22 ZAL 129.10 ZAP 24.93 ETS 317.95 ZAE 144.29 ETE 21.21 ZAC 128.71 ETC 146.49 CLP -17.32

PLANETOCENTRIC CONIC

C3 16.674 VHL 4.083 DLA 9.37 RAL 7.67 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 6.394 DPA 31.71 RAP 36.07 ECC 1.2744
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 39 2466.77 -24.78 58.11 228.80 104.16 2 6 46 1866.8 -22.59 50.12
 90.00 15 45 59 4520.96 10.20 190.09 225.03 63.44 17 1 20 3921.0 6.56 183.30
 100.00 2 51 35 2189.61 -25.86 37.41 228.48 105.54 3 28 5 1589.6 -23.48 29.42
 100.00 17 2 44 4273.36 11.20 171.36 224.51 62.10 18 13 57 3673.4 7.38 164.65
 110.00 4 10 17 1943.33 -28.74 17.69 227.46 109.35 4 42 40 1343.3 -25.83 9.72
 110.00 18 0 31 4092.40 13.82 156.09 222.97 58.42 19 8 44 3492.4 9.54 149.61

DIFFERENTIAL CORRECTIONS

TDE -.1893 TRA -.2950 TC3 .9421 BAU .2318
 RDE -.2612 RRA .1408 RC3 .4402 FAU .05569
 FDE -.0375 FRA -.1699 FC3-2.8914 BSP 3014
 BDE .3226 BRA .3269 BC3 1.0399 FSP -568

MID-COURSE EXECUTION ACCURACY

SGT 915.8 SGR 551.1 SG3 205.1
 RRT .5745 RRF -.6710 RTF -.7826
 SGB 1068.8 R23 -.1217 R13 -.8190
 SG1 982.7 SG2 420.4 THA 23.65

ORBIT DETERMINATION ACCURACY

ST 294.9 SR 371.6 SS 63.1
 CRT .8220 CRS -.3340 CST -.6376
 LSA 455.0 MSA 142.1 SSA 42.3
 EL1 454.1 EL2 137.5 ALF 52.92

LAUNCH DATE FEB 9 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.251 GAL -4.86 AZL 89.34 HCA 105.55 SMA 125.72 ECC .19303 INC .6593 V1 30.185
 RP 108.51 LAP .64 LOP 245.62 VP 37.289 GAP -7.90 AZP 90.18 TAL 201.16 TAP 306.71 RCA 101.45 APO 149.98 V2 34.923
 RC 59.010 GL 4.47 GP 19.68 ZAL 130.59 ZAP 27.85 ETS 320.46 ZAE 143.74 ETE 23.85 ZAC 128.12 ETC 145.29 CLP -20.12

PLANETOCENTRIC CONIC

C3 16.113 VHL 4.014 DLA 7.80 RAL 6.80 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 6.040 DPA 33.20 RAP 35.80 ECC 1.2652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 34 2408.31 -23.75 54.14 226.82 105.89 2 14 42 1808.3 -21.34 46.29
 90.00 15 30 7 4563.79 11.50 192.57 223.71 63.94 16 46 11 3963.8 7.90 185.73
 100.00 2 59 40 2133.83 -24.79 33.61 226.48 107.26 3 35 13 1533.8 -22.19 25.78
 100.00 16 47 42 4313.50 12.47 173.66 223.21 62.61 17 59 36 3713.5 8.70 166.90
 110.00 4 16 29 1893.42 -27.57 14.28 225.40 111.06 4 48 2 1293.4 -24.45 6.50
 110.00 17 47 22 4126.68 15.03 158.01 221.74 58.93 18 56 9 3526.7 10.81 151.46

DIFFERENTIAL CORRECTIONS

TDE -.1708 TRA -.2802 TC3 .9847 BAU .2407
 RDE -.2437 RRA .1476 RC3 .5278 FAU .06086
 FDE -.0980 FRA -.2160 FC3-3.2701 BSP 3103
 BDE .2976 BRA .3167 BC3 1.1173 FSP -642

MID-COURSE EXECUTION ACCURACY

SGT 920.6 SGR 588.0 SG3 228.7
 RRT .6169 RRF -.7258 RTF -.7861
 SGB 1092.3 R23 -.1381 R13 -.8322
 SG1 1007.1 SG2 423.0 THA 26.54

ORBIT DETERMINATION ACCURACY

ST 273.2 SR 353.9 SS 96.9
 CRT .8002 CRS -.6347 CST -.8581
 LSA 432.2 MSA 142.8 SSA 46.1
 EL1 425.9 EL2 136.2 ALF 54.05

LAUNCH DATE FEB 9 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.351 GAL -4.91 AZL 89.53 HCA 108.73 SMA 126.37 ECC .18798 INC .4743 V1 30.185
 RP 108.55 LAP .45 LOP 248.80 VP 37.351 GAP -7.21 AZP 90.15 TAL 202.17 TAP 310.90 RCA 102.62 APO 150.13 V2 34.911
 RC 60.976 GL 3.27 GP 21.30 ZAL 131.95 ZAP 31.00 ETS 322.64 ZAE 143.29 ETE 26.83 ZAC 127.29 ETC 144.16 CLP -23.07

PLANETOCENTRIC CONIC

C3 15.649 VHL 3.956 DLA 6.19 RAL 6.08 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 5.715 DPA 34.77 RAP 35.28 ECC 1.2576
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 44 7 2350.42 -22.62 50.27 225.11 107.51 2 23 18 1750.4 -20.01 42.57
 90.00 15 14 48 4608.44 12.82 195.18 222.67 64.53 16 31 37 4008.4 9.29 188.28
 100.00 3 8 24 2078.57 -23.62 29.92 224.75 108.87 3 43 3 1478.6 -20.83 22.24
 100.00 16 33 12 4355.52 13.77 176.10 222.19 63.20 17 45 48 3755.5 10.07 169.27
 110.00 4 23 23 1843.94 -26.31 10.98 223.62 112.65 4 54 7 1243.9 -23.01 3.38
 110.00 17 34 43 4162.91 16.30 160.06 220.77 59.53 18 44 6 3562.9 12.13 153.43

DIFFERENTIAL CORRECTIONS

TDE -.1504 TRA -.2667 TC3 1.0167 BAU .2500
 RDE -.2235 RRA .1555 RC3 .6281 FAU .06651
 FDE -.1725 FRA -.2648 FC3-3.6796 BSP 3224
 BDE .2694 BRA .3087 BC3 1.1951 FSP -726

MID-COURSE EXECUTION ACCURACY

SGT 919.5 SGR 634.8 SG3 254.6
 RRT .6548 RRF -.7767 RTF -.7888
 SGB 1117.4 R23 -.1517 R13 -.8471
 SG1 1032.4 SG2 427.3 THA 29.97

ORBIT DETERMINATION ACCURACY

ST 248.2 SR 331.1 SS 142.6
 CRT .7660 CRS -.7498 CST -.9177
 LSA 410.3 MSA 144.1 SSA 49.8
 EL1 391.1 EL2 135.1 ALF 55.43

LAUNCH DATE FEB 9 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.440 GAL -4.95 AZL 89.72 HCA 111.91 SMA 126.96 ECC .18356 INC .2818 V1 30.185
 RP 108.58 LAP .26 LOP 251.98 VP 37.405 GAP -6.55 AZP 90.11 TAL 203.11 TAP 315.02 RCA 103.66 APO 150.27 V2 34.900
 RC 63.000 GL 1.97 GP 23.10 ZAL 133.18 ZAP 34.38 ETS 324.58 ZAE 142.92 ETE 30.19 ZAC 126.18 ETC 143.13 CLP -26.20

PLANETOCENTRIC CONIC

C3 15.269 VHL 3.908 DLA 4.54 RAL 5.52 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 5.418 DPA 36.44 RAP 34.45 ECC 1.2513
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 25 2292.89 -21.39 46.50 223.67 109.01 2 32 37 1692.9 -18.60 38.94
 90.00 15 0 1 4654.87 14.16 197.93 221.91 65.22 16 17 36 4054.9 10.70 190.96
 100.00 3 17 53 2023.64 -22.37 26.32 223.30 110.36 3 51 37 1423.6 -19.39 18.79
 100.00 16 19 13 4399.34 15.10 178.68 221.45 63.89 17 32 33 3799.3 11.47 171.77
 110.00 4 31 1 1794.76 -24.98 7.78 222.13 114.13 5 0 56 1194.8 -21.51 .35
 110.00 17 22 35 4200.98 17.60 162.24 220.07 60.21 18 32 36 3601.0 13.50 155.53

DIFFERENTIAL CORRECTIONS

TDE -.1319 TRA -.2578 TC3 1.0284 BAU .2587
 RDE -.2003 RRA .1639 RC3 .7409 FAU .07244
 FDE -.2592 FRA -.3119 FC3-4.1072 BSP 3308
 BDE .2398 BRA .3055 BC3 1.2675 FSP -813

MID-COURSE EXECUTION ACCURACY

SGT 909.5 SGR 692.6 SG3 282.1
 RRT .6838 RRF -.8215 RTF -.7855
 SGB 1143.2 R23 -.1656 R13 -.8611
 SG1 1057.3 SG2 434.7 THA 34.01

ORBIT DETERMINATION ACCURACY

ST 225.7 SR 303.0 SS 194.5
 CRT .7165 CRS -.7943 CST -.9261
 LSA 395.6 MSA 146.1 SSA 52.6
 EL1 352.8 EL2 135.2 ALF 56.32

LAUNCH DATE FEB 9 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 256.962

RL 147.60 LAL .00 LOL 140.07 VL 27.517 GAL -4.99 AZL 89.92 MCA 115.09 SMA 127.48 ECC .17972 INC .0797 V1 30.185
 RP 108.62 LAP .07 LOP 255.16 VP 37.452 GAP -5.92 AZP 90.03 TAL 203.96 TAP 319.05 RCA 104.57 APO 150.39 V2 34.889
 RC 65.076 GL .58 GP 25.07 ZAL 134.25 ZAP 37.99 ETS 326.38 ZAE 142.57 ETE 33.97 ZAC 124.80 ETC 142.22 CLP -29.53

PLANETOCENTRIC CONIC

C3 14.959 VHL 3.868 DLA 2.84 RAL 5.11 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 5.152 DPA 38.18 RAP 33.29 ECC 1.2462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 30 2235.40 -20.07 42.80 222.52 110.41 2 42 45 1635.4 -17.11 35.38
 90.00 14 45 43 4703.17 15.52 200.83 221.42 66.01 16 4 6 4103.2 12.15 193.77
 100.00 3 28 10 1968.76 -21.02 22.80 222.12 111.75 4 0 59 1368.8 -17.89 15.41
 100.00 16 5 44 4445.04 16.45 181.40 220.98 64.68 17 19 49 3845.0 12.91 174.40
 110.00 4 39 27 1745.64 -23.58 4.66 220.91 115.50 5 8 33 1145.6 -19.95 357.39
 110.00 17 10 56 4240.92 18.93 164.57 219.64 60.99 18 21 37 3640.9 14.92 157.75

DIFFERENTIAL CORRECTIONS

TOE -.1142 TRA -.2522 TC3 1.0207 BAU .2679
 RDE -.1730 RRA .1730 RC3 .8678 FAU .07860
 FDE -.3611 FRA -.3571 FC3-4.5487 BSP 3400
 BOE .2073 BRA .3059 BC3 1.3397 FSP -907

MID-COURSE EXECUTION ACCURACY

SGT 889.9 SGR 763.0 SG3 310.9
 RRT .7030 RRF -.8599 RTF -.7774
 SGB 1172.2 R23 -.1746 R13 -.8764
 SG1 1084.3 SG2 445.3 THA 38.80

ORBIT DETERMINATION ACCURACY

ST 204.4 SR 268.4 SS 252.7
 CRT .6416 CRS -.8054 CST -.9117
 LSA 391.2 MSA 147.4 SSA 54.2
 EL1 308.6 EL2 136.4 ALF 56.63

LAUNCH DATE FEB 9 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 263.534

RL 147.60 LAL .00 LOL 140.07 VL 27.585 GAL -5.02 AZL 90.13 MCA 118.26 SMA 127.94 ECC .17639 INC .1297 V1 30.185
 RP 108.65 LAP -.11 LOP 258.33 VP 37.491 GAP -5.32 AZP 89.94 TAL 204.73 TAP 322.99 RCA 105.37 APO 150.50 V2 34.878
 RC 67.198 GL -.93 GP 27.23 ZAL 135.15 ZAP 41.82 ETS 328.12 ZAE 142.18 ETE 38.21 ZAC 123.14 ETC 141.47 CLP -33.07

PLANETOCENTRIC CONIC

C3 14.712 VHL 3.836 DLA 1.10 RAL 4.88 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 4.916 DPA 40.01 RAP 31.75 ECC 1.2421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 31 2177.58 -18.65 39.15 221.63 111.70 2 53 49 1577.6 -15.54 31.86
 90.00 14 31 49 4753.57 16.89 203.89 221.22 66.93 15 51 3 4153.6 13.62 196.74
 100.00 3 39 22 1913.55 -19.59 19.33 221.23 113.04 4 11 16 1313.6 -16.31 12.08
 100.00 15 52 39 4492.82 17.82 184.29 220.79 65.59 17 7 32 3892.8 14.38 177.19
 110.00 4 48 47 1696.28 -22.10 1.59 219.98 116.77 5 17 4 1096.3 -18.33 354.48
 110.00 16 59 44 4282.86 20.30 167.06 219.49 61.89 18 11 6 3682.9 16.38 160.13

DIFFERENTIAL CORRECTIONS

TOE -.0983 TRA -.2506 TC3 .9905 BAU .2781
 RDE -.1407 RRA .1823 RC3 1.0089 FAU .08479
 FDE -.4784 FRA -.3968 FC3-4.9096 BSP 3503
 BOE .1717 BRA .3099 BC3 1.4138 FSP -1003

MID-COURSE EXECUTION ACCURACY

SGT 859.7 SGR 847.0 SG3 340.3
 RRT .7100 RRF -.8914 RTF -.7624
 SGB 1206.8 R23 -.1760 R13 -.8930
 SG1 1115.9 SG2 459.5 THA 44.40

ORBIT DETERMINATION ACCURACY

ST 186.2 SR 226.7 SS 316.6
 CRT .5261 CRS -.7872 CST -.8808
 LSA 402.2 MSA 146.9 SSA 54.1
 EL1 258.4 EL2 139.0 ALF 55.32

LAUNCH DATE FEB 9 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 270.080

RL 147.60 LAL .00 LOL 140.07 VL 27.643 GAL -5.04 AZL 90.35 MCA 121.43 SMA 128.33 ECC .17351 INC .3539 V1 30.185
 RP 108.68 LAP -.30 LOP 261.50 VP 37.524 GAP -4.74 AZP 89.82 TAL 205.41 TAP 326.84 RCA 106.07 APO 150.60 V2 34.867
 RC 69.360 GL -2.56 GP 29.58 ZAL 135.87 ZAP 45.89 ETS 329.88 ZAE 141.69 ETE 42.93 ZAC 121.18 ETC 140.92 CLP -36.83

PLANETOCENTRIC CONIC

C3 14.522 VHL 3.811 DLA -.70 RAL 4.82 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 4.712 DPA 41.90 RAP 29.78 ECC 1.2390
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 37 2118.91 -17.14 35.51 221.03 112.89 3 5 56 1518.9 -13.89 28.34
 90.00 14 18 14 4806.46 18.27 207.16 221.30 67.98 15 38 21 4206.5 15.12 199.90
 100.00 3 51 38 1857.57 -18.06 15.87 220.61 114.23 4 22 35 1257.6 -14.64 8.75
 100.00 15 39 54 4543.03 19.20 187.38 220.89 66.64 16 55 37 3943.0 15.88 180.16
 110.00 4 59 7 1646.30 -20.54 358.55 219.33 117.95 5 26 34 1046.3 -16.64 351.60
 110.00 16 48 54 4327.07 21.69 169.73 219.64 62.91 18 1 1 3727.1 17.89 162.67

DIFFERENTIAL CORRECTIONS

TOE -.0838 TRA -.2515 TC3 .9392 BAU .2907
 RDE -.1016 RRA .1918 RC3 1.1658 FAU .09093
 FDE -.6144 FRA -.4311 FC3-5.4206 BSP 3666
 BOE .1317 BRA .3163 BC3 1.4971 FSP -1105

MID-COURSE EXECUTION ACCURACY

SGT 819.3 SGR 946.6 SG3 370.0
 RRT .7043 RRF -.9168 RTF -.7398
 SGB 1251.9 R23 -.1652 R13 -.9115
 SG1 1158.1 SG2 475.4 THA 50.81

ORBIT DETERMINATION ACCURACY

ST 170.9 SR 177.6 SS 387.6
 CRT .3297 CRS -.7157 CST -.8344
 LSA 433.0 MSA 144.2 SSA 52.1
 EL1 201.1 EL2 142.5 ALF 48.36

LAUNCH DATE FEB 9 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 276.599

RL 147.60 LAL .00 LOL 140.07 VL 27.692 GAL -5.06 AZL 90.59 MCA 124.60 SMA 128.67 ECC .17103 INC .5938 V1 30.185
 RP 108.72 LAP -.49 LOP 264.67 VP 37.551 GAP -4.18 AZP 89.66 TAL 205.98 TAP 330.58 RCA 106.67 APO 150.68 V2 34.858
 RC 71.560 GL -4.32 GP 32.11 ZAL 136.39 ZAP 50.15 ETS 331.73 ZAE 141.03 ETE 48.11 ZAC 118.93 ETC 140.62 CLP -40.85

PLANETOCENTRIC CONIC

C3 14.386 VHL 3.793 DLA -2.57 RAL 4.94 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 4.542 DPA 43.84 RAP 27.34 ECC 1.2368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 44 58 2058.80 -15.51 31.85 220.72 113.99 3 19 17 1458.8 -12.14 24.80
 90.00 14 4 49 4862.39 19.66 210.67 221.68 69.20 15 25 52 4262.4 16.66 203.29
 100.00 4 5 6 1800.27 -16.43 12.40 220.28 115.33 4 35 7 1200.3 -12.88 5.41
 100.00 15 27 22 4596.15 20.60 190.70 221.29 67.85 16 43 58 3996.1 17.42 183.35
 110.00 5 10 36 1595.25 -18.88 355.52 218.96 119.04 5 37 11 995.3 -14.86 348.71
 110.00 16 38 22 4373.94 23.12 172.62 220.08 64.09 17 51 16 3773.9 19.44 165.41

DIFFERENTIAL CORRECTIONS

TDE -.0750 TRA -.2580 TC3 .8562 BAU .3049
 RDE -.0557 RRA .1998 RC3 1.3341 FAU .09643
 FDE -.7621 FRA -.4507 FC3-5.8032 BSP 3826
 BOE .0934 BRA .3263 BC3 1.5852 FSP -1198

MID-COURSE EXECUTION ACCURACY

SGT 766.1 SGR 1059.5 SG3 397.5
 RRT .6764 RRF -.9363 RTF -.6988
 SGB 1307.4 R23 -.1451 R13 -.9292
 SG1 1210.6 SG2 493.8 THA 58.00

ORBIT DETERMINATION ACCURACY

ST 164.0 SR 127.3 SS 461.8
 CRT -.0235 CRS -.4959 CST -.7861
 LSA 484.0 MSA 140.7 SSA 48.5
 EL1 164.1 EL2 127.2 ALF 177.37

LAUNCH DATE FEB 9 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 283.091

RL 147.60 LAL .00 LOL 140.07 VL 27.734 GAL -5.06 AZL 90.85 MCA 127.77 SMA 128.96 ECC .16890 INC .8525 V1 30.185
 RP 108.74 LAP -.67 LOP 267.84 VP 37.573 GAP -3.65 AZP 89.48 TAL 206.45 TAP 334.21 RCA 107.18 APO 150.74 V2 34.848
 RC 73.792 GL -6.24 GP 34.82 ZAL 136.70 ZAP 54.60 ETS 333.74 ZAE 140.11 ETE 53.68 ZAC 116.42 ETC 140.54 CLP -45.12

PLANETOCENTRIC CONIC

C3 14.304 VHL 3.782 DLA -4.53 RAL 5.24 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 4.409 DPA 45.79 RAP 24.40 ECC 1.2354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 49 1996.52 -13.75 28.13 220.71 115.00 3 34 6 1396.5 -10.27 21.18
 90.00 13 51 24 4922.14 21.06 214.50 222.39 70.62 15 13 26 4322.1 18.22 206.97
 100.00 4 20 2 1740.99 -14.67 8.88 220.25 116.34 4 49 3 1141.0 -11.01 2.00
 100.00 15 14 52 4652.91 22.02 194.32 222.02 69.25 16 32 25 4052.9 19.00 186.83
 110.00 5 23 24 1542.61 -17.11 352.46 218.89 120.05 5 49 7 942.6 -12.99 345.78
 110.00 16 27 59 4424.06 24.57 175.79 220.86 65.45 17 41 43 3824.1 21.05 168.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0706 TRA -.2671 TC3 .7478 BAU .3230
 ROE -.0001 RRA .2063 RC3 1.5147 FAU .10122
 FDE -.9253 FRA -.4577 FC3-6.1262 BSP 4069
 BOE .0706 BRA .3375 BC3 1.6892 FSP -1289

SGT 704.4 SGR 1187.9 SG3 422.6
 RRT .6225 RRF -.9513 RTF -.6354
 SGB 1381.0 R23 -.1142 R13 -.9461
 SG1 1283.3 SG2 510.3 THA 65.65

ST 163.0 SR 100.1 SS 542.4
 CRT -.6653 CRS .1701 CST -.7455
 LSA 556.8 MSA 137.5 SSA 43.5
 EL1 178.7 EL2 68.2 ALF 153.64

LAUNCH DATE FEB 9 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 289.555

RL 147.60 LAL .00 LOL 140.07 VL 27.768 GAL -5.06 AZL 91.13 MCA 130.93 SMA 129.20 ECC .16709 INC 1.1342 V1 30.185
 RP 108.77 LAP -.86 LOP 271.01 VP 37.590 GAP -3.14 AZP 89.26 TAL 206.81 TAP 337.74 RCA 107.61 APO 150.79 V2 34.839
 RC 76.053 GL -8.33 GP 37.67 ZAL 136.78 ZAP 59.17 ETS 335.98 ZAE 138.87 ETE 59.55 ZAC 113.68 ETC 140.77 CLP -49.65

PLANETOCENTRIC CONIC

C3 14.281 VHL 3.779 DLA -6.59 RAL 5.74 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 4.314 DPA 47.72 RAP 20.94 ECC 1.2350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 31 1931.18 -11.84 24.28 221.02 115.91 3 50 42 1331.2 -8.26 17.43
 90.00 13 37 43 4986.75 22.46 218.72 223.45 72.28 15 0 50 4386.8 19.83 211.04
 100.00 4 36 43 1678.91 -12.76 5.26 220.55 117.26 5 4 42 1078.9 -9.01 358.48
 100.00 15 2 12 4714.26 23.44 198.32 223.10 70.90 16 20 46 4114.3 20.62 190.67
 110.00 5 37 46 1487.73 -15.21 349.34 219.14 120.99 6 2 34 887.7 -10.99 342.78
 110.00 16 17 38 4478.20 26.06 179.29 221.99 67.05 17 32 16 3878.2 22.72 171.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0759 TRA -.2812 TC3 .6037 BAU .3440
 ROE .0647 RRA .2083 RC3 1.6976 FAU .10453
 FDE -1.0919 FRA -.4409 FC3-6.3369 BSP 4335
 BOE .0998 BRA .3500 BC3 1.8018 FSP -1356

SGT 636.9 SGR 1325.5 SG3 441.7
 RRT .5184 RRF -.9625 RTF -.5239
 SGB 1470.6 R23 -.0791 R13 -.9596
 SG1 1373.4 SG2 525.7 THA 73.53

ST 173.3 SR 142.2 SS 623.9
 CRT -.9359 CRS .7868 CST -.7399
 LSA 647.8 MSA 135.7 SSA 38.0
 EL1 220.6 EL2 39.3 ALF 141.01

LAUNCH DATE FEB 9 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 295.992

RL 147.60 LAL .00 LOL 140.07 VL 27.795 GAL -5.05 AZL 91.44 MCA 134.09 SMA 129.39 ECC .16555 INC 1.4441 V1 30.185
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.603 GAP -2.65 AZP 89.00 TAL 207.06 TAP 341.15 RCA 107.97 APO 150.81 V2 34.831
 RC 78.340 GL -10.62 GP 40.66 ZAL 136.60 ZAP 63.82 ETS 338.51 ZAE 137.26 ETE 65.60 ZAC 110.74 ETC 141.30 CLP -54.44

PLANETOCENTRIC CONIC

C3 14.324 VHL 3.785 DLA -8.79 RAL 6.46 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 4.260 DPA 49.61 RAP 16.95 ECC 1.2357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 27 1861.65 -9.74 20.25 221.70 116.72 4 9 29 1261.6 -6.07 13.49
 90.00 13 23 28 5057.63 23.85 223.45 224.91 74.26 14 47 46 4457.6 21.46 215.59
 100.00 4 55 31 1613.04 -10.68 1.48 221.21 118.09 5 22 24 1013.0 -6.84 354.79
 100.00 14 49 5 4781.48 24.86 202.81 224.58 72.85 16 8 47 4181.5 22.28 194.97
 110.00 5 54 1 1429.86 -13.16 346.12 219.75 121.84 6 17 51 829.9 -8.85 339.66
 110.00 16 7 5 4537.42 27.57 183.24 223.54 68.94 17 22 42 3937.4 24.45 175.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0917 TRA -.2980 TC3 .4286 BAU .3688
 ROE .1409 RRA .2050 RC3 1.8778 FAU .10614
 FDE -1.2599 FRA -.4021 FC3-6.4149 BSP 4667
 BOE .1681 BRA .3617 BC3 1.9261 FSP -1402

SGT 577.0 SGR 1471.2 SG3 453.9
 RRT .3395 RRF -.9707 RTF -.3396
 SGB 1580.3 R23 -.0431 R13 -.9698
 SG1 1486.2 SG2 537.3 THA 81.27

ST 195.2 SR 237.0 SS 707.4
 CRT -.9096 CRS .9449 CST -.7693
 LSA 758.5 MSA 135.4 SSA 32.5
 EL1 308.3 EL2 64.0 ALF 128.94

LAUNCH DATE FEB 9 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 302.401

RL 147.60 LAL .00 LOL 140.07 VL 27.816 GAL -5.03 AZL 91.79 MCA 137.25 SMA 129.54 ECC .16425 INC 1.7889 V1 30.185
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.611 GAP -2.18 AZP 88.69 TAL 207.21 TAP 344.46 RCA 108.26 APO 150.81 V2 34.824
 RC 80.651 GL -13.15 GP 43.73 ZAL 136.14 ZAP 68.47 ETS 341.37 ZAE 135.27 ETE 71.68 ZAC 107.66 ETC 142.14 CLP -59.48

PLANETOCENTRIC CONIC

C3 14.451 VHL 3.801 DLA -11.14 RAL 7.40 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 4.251 DPA 51.40 RAP 12.46 ECC 1.2378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 1 13 1786.46 -7.41 15.96 222.80 117.41 4 31 0 1186.5 -3.68 9.26
 90.00 13 8 13 5136.73 25.20 228.85 226.81 76.64 14 33 49 4536.7 23.11 220.80
 100.00 5 16 58 1542.08 -8.38 357.47 222.28 118.80 5 42 40 942.1 -4.47 350.86
 100.00 14 35 9 4856.33 26.27 207.93 226.52 75.19 15 56 5 4256.3 23.98 199.88
 110.00 6 12 32 1368.08 -10.91 342.74 220.75 122.60 6 35 20 768.1 -6.54 336.38
 110.00 15 56 5 4603.10 29.09 187.74 225.55 71.21 17 12 48 4003.1 26.25 179.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1199 TRA -.3150 TC3 .2277 BAU .3981
 ROE .2311 RRA .1955 RC3 2.0480 FAU .10589
 FDE -1.4267 FRA -.3443 FC3-6.3438 BSP 5099
 BOE .2604 BRA .3707 BC3 2.0606 FSP -1429

SGT 544.8 SGR 1623.6 SG3 458.5
 RRT .0693 RRF -.9769 RTF -.0658
 SGB 1712.5 R23 -.0104 R13 -.9769
 SG1 1624.1 SG2 543.3 THA 88.50

ST 231.9 SR 362.8 SS 793.6
 CRT -.9010 CRS .9822 CST -.8201
 LSA 892.2 MSA 136.1 SSA 27.2
 EL1 421.8 EL2 86.5 ALF 121.41

LAUNCH DATE FEB 9 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 308.783

RL 147.60 LAL .00 LOL 140.07 VL 27.831 GAL -4.99 AZL 92.18 HCA 140.41 SMA 129.64 ECC .16317 INC 2.1773 V1 30.185
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.616 GAP -1.72 AZP 88.32 TAL 207.25 TAP 347.66 RCA 108.49 APO 150.80 V2 34.816
 RC 82.981 GL -15.95 GP 46.87 ZAL 135.37 ZAP 73.03 ETS 344.61 ZAE 132.89 ETE 77.69 ZAC 104.49 ETC 143.29 CLP -64.73

PLANETOCENTRIC CONIC

C3 14.685 VHL 3.832 DLA -13.69 RAL 8.60 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 4.290 DPA 53.07 RAP 7.50 ECC 1.2417
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 40 1703.58 -4.79 11.28 224.41 117.94 4 56 4 1103.6 -1.01 4.63
 90.00 12 51 19 5226.75 26.47 235.14 229.24 79.55 14 18 25 4626.7 24.76 226.88
 100.00 5 41 49 1464.37 -5.80 353.13 223.85 119.37 6 6 13 864.4 -1.85 346.58
 100.00 14 19 51 4941.19 27.61 213.88 228.99 78.05 15 42 12 4341.2 25.68 205.61
 110.00 6 33 53 1301.26 -8.44 339.14 222.23 123.25 6 55 35 701.3 -4.01 332.86
 110.00 15 44 16 4677.07 30.60 192.97 228.13 73.96 17 2 13 4077.1 28.10 184.66

DIFFERENTIAL CORRECTIONS

TDE -.1666 TRA -.3324 TC3 -.0003 BAU .4297
 ROE .3340 RRA .1750 RC3 2.1888 FAU .10321
 FDE -1.5758 FRA -.2602 FC3 -6.0844 BSP 5563
 BOE .3733 BRA .3756 BC3 2.1888 FSP -1417

MID-COURSE EXECUTION ACCURACY

SGT 568.9 SGR 1770.9 SG3 452.7
 RRT -.2606 RRF -.9814 RTF .2659
 SGB 1860.1 R23 .0174 R13 -.9813
 SG1 1777.8 SG2 547.1 THA 95.29

ORBIT DETERMINATION ACCURACY

ST 292.6 SR 508.4 SS 876.0
 CRT -.9197 CRS .9933 CST -.8755
 LSA 1044.9 MSA 138.2 SSA 22.5
 EL1 577.8 EL2 101.1 ALF 118.86

LAUNCH DATE FEB 9 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 315.137

RL 147.60 LAL .00 LOL 140.07 VL 27.841 GAL -4.95 AZL 92.62 HCA 143.57 SMA 129.71 ECC .16227 INC 2.6210 V1 30.185
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.617 GAP -1.29 AZP 87.89 TAL 207.19 TAP 350.75 RCA 108.67 APO 150.76 V2 34.810
 RC 85.328 GL -19.07 GP 50.05 ZAL 134.23 ZAP 77.42 ETS 348.24 ZAE 130.14 ETE 83.51 ZAC 101.30 ETC 144.73 CLP -70.17

PLANETOCENTRIC CONIC

C3 15.067 VHL 3.882 DLA -16.46 RAL 10.08 RAD 6567.6 VEL 11.681 PTH 2.05 VHP 4.383 DPA 54.62 RAP 2.14 ECC 1.2480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 4 1610.01 -1.78 6.04 226.65 118.27 5 25 54 1010.0 2.01 359.41
 90.00 12 31 45 5331.80 27.54 242.63 232.27 83.16 14 0 37 4731.8 26.31 234.18
 100.00 6 11 8 1377.44 -2.88 348.33 226.04 119.77 6 34 6 777.4 1.10 341.81
 100.00 14 2 22 5039.58 28.79 220.95 232.08 81.59 15 26 21 4439.6 27.33 212.45
 110.00 6 58 52 1227.92 -5.68 335.25 224.30 123.76 7 19 20 627.9 -1.21 329.03
 110.00 15 31 8 4761.86 32.03 199.16 231.39 77.37 16 50 29 4161.9 29.96 190.56

DIFFERENTIAL CORRECTIONS

TDE -.2342 TRA -.3454 TC3 -.2411 BAU .4642
 ROE .4537 RRA .1438 RC3 2.2920 FAU .09842
 FDE -1.7083 FRA -.1614 FC3 -5.6551 BSP 6113
 BOE .5106 BRA .3742 BC3 2.3047 FSP -1382

MID-COURSE EXECUTION ACCURACY

SGT 661.3 SGR 1914.0 SG3 438.0
 RRT -.5390 RRF -.9849 RTF .5446
 SGB 2025.1 R23 .0396 R13 -.9842
 SG1 1949.9 SG2 546.7 THA 101.46

ORBIT DETERMINATION ACCURACY

ST 380.8 SR 675.1 SS 956.7
 CRT -.9430 CRS .9972 CST -.9194
 LSA 1223.0 MSA 140.7 SSA 18.5
 EL1 767.0 EL2 111.5 ALF 118.67

LAUNCH DATE FEB 9 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 321.465

RL 147.60 LAL .00 LOL 140.07 VL 27.846 GAL -4.90 AZL 93.14 HCA 146.72 SMA 129.75 ECC .16154 INC 3.1361 V1 30.185
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.616 GAP -.87 AZP 87.38 TAL 207.03 TAP 353.74 RCA 108.79 APO 150.71 V2 34.804
 RC 87.691 GL -22.56 GP 53.26 ZAL 132.70 ZAP 81.54 ETS 352.28 ZAE 127.07 ETE 89.09 ZAC 98.14 ETC 146.43 CLP -75.76

PLANETOCENTRIC CONIC

C3 15.656 VHL 3.957 DLA -19.50 RAL 11.90 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 4.538 DPA 56.04 RAP 356.43 ECC 1.2577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 34 1500.40 1.76 359.93 229.73 118.27 6 2 35 900.4 5.52 353.27
 90.00 12 7 44 5458.65 28.23 251.85 236.00 87.72 13 38 43 4858.6 27.62 243.23
 100.00 6 46 42 1277.32 .51 342.84 229.04 119.89 7 7 59 677.3 4.48 336.30
 100.00 13 41 18 5156.96 29.65 229.56 235.91 86.04 15 7 15 4557.0 28.79 220.87
 110.00 7 28 37 1145.99 -2.57 330.96 227.12 124.10 7 47 43 546.0 1.92 324.75
 110.00 15 15 52 4861.06 33.26 206.63 235.45 81.63 16 36 53 4261.1 31.75 197.73

DIFFERENTIAL CORRECTIONS

TDE -.3301 TRA -.3521 TC3 -.4856 BAU .4990
 ROE .5887 RRA .0966 RC3 2.3339 FAU .09132
 FDE -1.8096 FRA -.0457 FC3 -5.0495 BSP 6663
 BOE .6749 BRA .3651 BC3 2.3839 FSP -1307

MID-COURSE EXECUTION ACCURACY

SGT 817.7 SGR 2039.6 SG3 412.9
 RRT -.7180 RRF -.9874 RTF .7231
 SGB 2197.4 R23 .0578 R13 -.9859
 SG1 2128.7 SG2 545.4 THA 107.22

ORBIT DETERMINATION ACCURACY

ST 504.9 SR 855.4 SS 1028.6
 CRT -.9616 CRS .9988 CST -.9493
 LSA 1422.6 MSA 144.1 SSA 15.0
 EL1 986.0 EL2 120.2 ALF 120.07

LAUNCH DATE FEB 9 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 327.765

RL 147.60 LAL .00 LOL 140.07 VL 27.847 GAL -4.84 AZL 93.75 HCA 149.86 SMA 129.76 ECC .16095 INC 3.7452 V1 30.185
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.612 GAP -.47 AZP 86.76 TAL 206.77 TAP 356.64 RCA 108.87 APO 150.64 V2 34.799
 RC 90.065 GL -26.46 GP 56.51 ZAL 130.71 ZAP 85.29 ETS 356.72 ZAE 123.71 ETE 94.41 ZAC 95.04 ETC 148.39 CLP -81.44

PLANETOCENTRIC CONIC

C3 16.551 VHL 4.068 DLA -22.84 RAL 14.11 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 4.767 DPA 57.37 RAP 350.41 ECC 1.2724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 35 1363.39 6.14 352.25 234.01 117.70 6 50 18 763.4 9.80 345.48
 90.00 11 35 22 5620.96 28.10 263.71 240.42 93.66 13 9 2 5021.0 28.31 255.05
 100.00 7 31 46 1156.24 4.60 336.18 233.17 119.57 7 51 2 556.2 8.51 329.57
 100.00 13 13 52 5303.34 29.85 240.43 240.51 91.76 14 42 15 4703.3 29.77 231.63
 110.00 8 4 57 1052.18 1.02 326.06 230.94 124.17 8 22 29 452.2 5.49 319.84
 110.00 14 57 10 4980.17 34.07 215.84 240.46 87.02 16 20 10 4380.2 33.28 206.68

DIFFERENTIAL CORRECTIONS

TDE -.4608 TRA -.3466 TC3 -.7131 BAU .5332
 ROE .7425 RRA .0318 RC3 2.3020 FAU .08239
 FDE -1.8792 FRA .0767 FC3 -4.3098 BSP 7238
 BOE .8739 BRA .3481 BC3 2.4099 FSP -1204

MID-COURSE EXECUTION ACCURACY

SGT 1019.0 SGR 2145.7 SG3 379.7
 RRT -.8192 RRF -.9894 RTF .8240
 SGB 2375.4 R23 .0726 R13 -.9870
 SG1 2312.7 SG2 542.2 THA 112.57

ORBIT DETERMINATION ACCURACY

ST 668.3 SR 1047.3 SS 1090.9
 CRT -.9742 CRS .9995 CST -.9680
 LSA 1646.7 MSA 147.8 SSA 12.0
 EL1 1235.8 EL2 127.8 ALF 122.25

LAUNCH DATE FEB 9 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.843 GAL -4.77 AZL 94.48 HCA 153.01 SMA 129.73 ECC .16049 INC 4.4816 V1 30.185
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.605 GAP -.08 AZP 86.00 TAL 206.42 TAP 359.43 RCA 108.91 APO 150.55 V2 34.795
 RC 92.449 GL -30.81 GP 59.84 ZAL 128.22 ZAP 88.59 ETS 1.57 ZAE 120.08 ETE 99.48 ZAC 92.03 ETC 150.59 CLP -87.20

PLANETOCENTRIC CONIC
 C3 17.914 VHL 4.232 DLA -26.50 RAL 16.79 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 5.086 DPA 58.62 RAP 344.05 ECC 1.2948
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 43 22 1157.54 12.46 340.42 240.33 115.64 8 2 40 557.5 15.81 333.35
 90.00 10 40 59 5863.36 25.82 281.05 245.14 102.04 12 18 43 5263.4 27.23 272.66
 100.00 8 34 31 992.38 10.02 327.03 239.06 118.31 8 51 3 392.4 13.72 320.20
 100.00 12 32 32 5503.75 28.51 255.16 245.71 99.38 14 4 16 4903.8 29.51 246.50
 110.00 8 51 12 939.99 5.29 320.19 236.19 123.82 9 6 52 340.0 9.70 313.87
 110.00 14 32 20 5128.91 33.99 227.44 246.46 93.88 15 57 49 4528.9 34.15 218.20

DIFFERENTIAL CORRECTIONS
 TDE -.6369 TRA -.3226 TC3 -.9014 BAU .5664 SGT 1250.5 SGR 2232.3 SG3 340.8 ST 874.9 SR 1246.9 SS 1142.1
 RDE .9200 RRA -.0519 RC3 2.1865 FAU .07224 RRT -.8769 RRF -.9910 RTF .8817 CRT -.9824 CRS .9998 CST -.9796
 FDE -1.9179 FRA .1954 FC3 -3.4911 BSP 7854 SGB 2558.7 R23 .0839 R13 -.9878 LSA 1897.9 MSA 151.1 SSA 9.6
 BDE 1.1190 BRA .3267 BC3 2.3650 FSP -1085 SG1 2501.8 SG2 536.4 THA 117.53 EL1 1517.3 EL2 134.3 ALF 124.89

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.836 GAL -4.69 AZL 95.40 HCA 156.15 SMA 129.68 ECC .16015 INC 5.3956 V1 30.185
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.596 GAP .29 AZP 85.06 TAL 205.98 TAP 2.13 RCA 108.91 APO 150.45 V2 34.791
 RC 94.840 GL -35.66 GP 63.28 ZAL 125.19 ZAP 91.37 ETS 6.87 ZAE 116.20 ETE 104.39 ZAC 89.11 ETC 153.09 CLP -93.06

PLANETOCENTRIC CONIC
 C3 20.022 VHL 4.475 DLA -30.48 RAL 20.06 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 5.523 DPA 59.81 RAP 337.26 ECC 1.3295
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.21 7 50 25 1197.88 21.04 347.38 249.23 112.58 8 10 23 597.9 23.92 339.72
 101.79 11 0 2 5875.44 21.06 280.32 249.23 112.56 12 37 57 5275.4 23.93 272.65
 78.21 7 50 25 1197.88 21.04 347.38 249.23 112.58 8 10 23 597.9 23.92 339.72
 101.79 11 0 2 5875.44 21.06 280.32 249.23 112.56 12 37 57 5275.4 23.93 272.65
 110.00 9 55 28 790.58 10.87 312.22 243.71 122.61 10 8 38 190.6 15.10 305.67
 110.00 13 54 10 5330.73 31.99 242.82 253.11 102.75 15 23 1 4730.7 33.41 233.88

DIFFERENTIAL CORRECTIONS
 TDE -.8748 TRA -.2706 TC3 -1.0260 BAU .5948 SGT 1503.1 SGR 2286.9 SG3 297.1 ST 1126.9 SR 1438.2 SS 1174.0
 RDE 1.1210 RRA -.1617 RC3 1.9711 FAU .06106 RRT -.9108 RRF -.9923 RTF .9162 CRT -.9876 CRS 1.0000 CST -.9867
 FDE -1.9175 FRA .3092 FC3 -2.6402 BSP 8440 SGB 2736.6 R23 .0929 R13 -.9884 LSA 2166.3 MSA 153.9 SSA 7.6
 BDE 1.4219 BRA .3152 BC3 2.2222 FSP -947 SG1 2685.1 SG2 528.4 THA 122.31 EL1 1821.8 EL2 139.8 ALF 128.00

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.826 GAL -4.59 AZL 96.57 HCA 159.28 SMA 129.61 ECC .15991 INC 6.5677 V1 30.185
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.586 GAP .65 AZP 83.85 TAL 205.46 TAP 4.73 RCA 108.88 APO 150.33 V2 34.788
 RC 97.236 GL -40.99 GP 66.93 ZAL 121.58 ZAP 93.56 ETS 12.73 ZAE 112.04 ETE 109.32 ZAC 86.25 ETC 156.02 CLP -99.11

PLANETOCENTRIC CONIC
 C3 23.389 VHL 4.836 DLA -34.73 RAL 24.06 RAD 6567.9 VEL 12.032 PTH 2.15 VHP 6.126 DPA 60.96 RAP 329.82 ECC 1.3849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.00 7 5 34 1424.40 22.64 5.50 257.05 117.07 7 29 19 824.4 26.08 357.99
 111.00 12 16 46 5723.91 22.66 269.53 257.06 117.06 13 52 10 5123.9 26.10 262.02
 69.00 7 5 34 1424.40 22.64 5.50 257.05 117.07 7 29 19 824.4 26.08 357.99
 111.00 12 16 46 5723.91 22.66 269.53 257.06 117.06 13 52 10 5123.9 26.10 262.02
 69.00 7 5 34 1424.40 22.64 5.50 257.05 117.07 7 29 19 824.4 26.08 357.99
 111.00 12 16 46 5723.91 22.66 269.53 257.06 117.06 13 52 10 5123.9 26.10 262.02

DIFFERENTIAL CORRECTIONS
 TDE -1.2009 TRA -.1764 TC3 -1.0649 BAU .6177 SGT 1774.7 SGR 2310.7 SG3 251.7 ST 1425.1 SR 1606.7 SS 1185.2
 RDE 1.3512 RRA -.2996 RC3 1.6640 FAU .04965 RRT -.9328 RRF -.9935 RTF .9394 CRT -.9910 CRS 1.0000 CST -.9913
 FDE -1.8835 FRA .4076 FC3 -1.8379 BSP 9052 SGB 2913.6 R23 .0985 R13 -.9892 LSA 2448.1 MSA 155.0 SSA 5.9
 BDE 1.8077 BRA .3477 BC3 1.9756 FSP -805 SG1 2867.7 SG2 515.3 THA 127.01 EL1 2142.9 EL2 143.3 ALF 131.54

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.812 GAL -4.49 AZL 98.13 HCA 162.40 SMA 129.51 ECC .15976 INC 8.1349 V1 30.185
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.573 GAP 1.00 AZP 82.24 TAL 204.84 TAP 7.24 RCA 108.82 APO 150.20 V2 34.786
 RC 99.636 GL -46.73 GP 70.89 ZAL 117.41 ZAP 95.08 ETS 19.46 ZAE 107.54 ETE 114.67 ZAC 83.37 ETC 159.74 CLP -105.69

PLANETOCENTRIC CONIC
 C3 29.031 VHL 5.388 DLA -39.11 RAL 28.96 RAD 6568.2 VEL 12.264 PTH 2.21 VHP 6.977 DPA 62.00 RAP 321.42 ECC 1.4778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.82 6 47 16 1589.47 23.32 19.27 266.92 122.33 7 13 46 989.5 27.41 12.08
 118.18 13 14 12 5665.75 23.33 265.25 266.93 122.32 14 48 38 5065.7 27.42 258.06
 61.82 6 47 16 1589.47 23.32 19.27 266.92 122.33 7 13 46 989.5 27.41 12.08
 118.18 13 14 12 5665.75 23.33 265.25 266.93 122.32 14 48 38 5065.7 27.42 258.06
 61.82 6 47 16 1589.47 23.32 19.27 266.92 122.33 7 13 46 989.5 27.41 12.08
 118.18 13 14 12 5665.75 23.33 265.25 266.93 122.32 14 48 38 5065.7 27.42 258.06

DIFFERENTIAL CORRECTIONS
 TDE -1.6603 TRA -.0110 TC3 -1.0009 BAU .6281 SGT 2069.0 SGR 2280.2 SG3 205.9 ST 1765.9 SR 1713.0 SS 1167.9
 RDE 1.5998 RRA -.4769 RC3 1.2718 FAU .03824 RRT -.9479 RRF -.9944 RTF .9567 CRT -.9931 CRS .9999 CST -.9942
 FDE -1.8115 FRA .4931 FC3 -1.1405 BSP 9589 SGB 3079.0 R23 .1008 R13 -.9903 LSA 2719.0 MSA 153.7 SSA 4.5
 BDE 2.3057 BRA .4770 BC3 1.6184 FSP -656 SG1 3039.0 SG2 494.6 THA 132.07 EL1 2456.0 EL2 144.3 ALF 135.88

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 358.817

RL 147.60 LAL .00 LOL 140.07 VL 27.796 GAL -4.37 AZL 100.35 HCA 165.50 SMA 129.39 ECC .15968 INC10.3497 V1 30.185
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.560 GAP 1.32 AZP 79.97 TAL 204.13 TAP 9.63 RCA 108.73 APO 150.06 V2 34.784
 RC 102.038 GL -52.70 GP 75.28 ZAL 112.77 ZAP 95.90 ETS 27.93 ZAE 102.57 ETE 121.41 ZAC 80.37 ETC 165.21 CLP-113.84

PLANETOCENTRIC CONIC

C3 39.184 VHL 6.260 DLA -43.34 RAL 34.95 RAD 6568.5 VEL 12.671 PTH 2.30 VHP 8.228 OPA 62.75 RAP 311.58 ECC 1.6449
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.71 6 44 28 1739.08 22.40 31.47 279.04 128.12 7 13 27 1139.1 27.18 24.81
 124.29 14 4 48 5667.27 22.41 264.68 279.05 128.12 15 39 16 5067.3 27.19 258.02
 55.71 6 44 28 1739.08 22.40 31.47 279.04 128.12 7 13 27 1139.1 27.18 24.81
 124.29 14 4 48 5667.27 22.41 264.68 279.05 128.12 15 39 16 5067.3 27.19 258.02
 55.71 6 44 28 1739.08 22.40 31.47 279.04 128.12 7 13 27 1139.1 27.18 24.81
 124.29 14 4 48 5667.27 22.41 264.68 279.05 128.12 15 39 16 5067.3 27.19 258.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.3452 TRA .2840 TC3 -.8365 BAU .6189 SGT 2415.0 SGR 2156.2 SG3 162.5 ST 2149.5 SR 1694.8 SS 1125.0
 RDE 1.8292 RRA -.6904 RC3 .8343 FAU .02751 RRT -.9599 RRF -.9948 RTF .9720 CRT -.9945 CRS .9998 CST -.9964
 FDE-1.7130 FRA .5621 FC3 -.6078 BSP 10135 SGB 3237.5 R23 .0968 R13 -.9920 LSA 2955.8 MSA 146.6 SSA 3.3
 BDE 2.9742 BRA .7465 BC3 1.1815 FSP -518 SG1 3205.3 SG2 455.5 THA 138.37 EL1 2733.7 EL2 139.1 ALF 141.78

LAUNCH DATE FEB 9 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 364.904

RL 147.60 LAL .00 LOL 140.07 VL 27.776 GAL -4.24 AZL 103.73 HCA 168.57 SMA 129.26 ECC .15965 INC13.7303 V1 30.185
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.545 GAP 1.63 AZP 76.53 TAL 203.33 TAP 11.90 RCA 108.62 APO 149.90 V2 34.783
 RC 104.441 GL -58.47 GP 80.20 ZAL 107.79 ZAP 95.96 ETS 41.07 ZAE 96.88 ETE 132.62 ZAC 77.01 ETC 175.50 CLP-127.60

PLANETOCENTRIC CONIC

C3 59.502 VHL 7.714 DLA -46.93 RAL 42.10 RAD 6569.1 VEL 13.448 PTH 2.46 VHP 10.198 OPA 62.84 RAP 299.78 ECC 1.9792
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.87 6 54 44 1890.72 19.12 42.40 293.18 133.72 7 26 14 1290.7 24.53 36.47
 129.13 14 51 34 5724.04 19.13 266.87 293.19 133.71 16 26 58 5124.0 24.55 260.93
 50.87 6 54 44 1890.72 19.12 42.40 293.18 133.72 7 26 14 1290.7 24.53 36.47
 129.13 14 51 34 5724.04 19.13 266.87 293.19 133.71 16 26 58 5124.0 24.55 260.93
 50.87 6 54 44 1890.72 19.12 42.40 293.18 133.72 7 26 14 1290.7 24.53 36.47
 129.13 14 51 34 5724.04 19.13 266.87 293.19 133.71 16 26 58 5124.0 24.55 260.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.4626 TRA .8688 TC3 -.5874 BAU .5634 SGT 2886.0 SGR 1757.3 SG3 123.3 ST 2587.6 SR 1370.5 SS 1063.4
 RDE 1.8038 RRA -.8822 RC3 .3956 FAU .01750 RRT -.9673 RRF -.9927 RTF .9860 CRT -.9948 CRS .9992 CST -.9981
 FDE-1.6010 FRA .6291 FC3 -.2546 BSP 10551 SGB 3378.9 R23 .0857 R13 -.9942 LSA 3112.6 MSA 129.3 SSA 2.4
 BDE 3.9042 BRA 1.2381 BC3 .7082 FSP -390 SG1 3357.1 SG2 383.4 THA 149.05 EL1 2925.5 EL2 123.3 ALF 152.16

LAUNCH DATE FEB 9 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 370.901

RL 147.60 LAL .00 LOL 140.07 VL 27.755 GAL -4.08 AZL 109.51 HCA 171.57 SMA 129.11 ECC .15961 INC19.5128 V1 30.185
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.529 GAP 1.91 AZP 70.68 TAL 202.39 TAP 13.96 RCA 108.50 APO 149.72 V2 34.783
 RC 106.844 GL -63.15 GP 84.67 ZAL 102.70 ZAP 95.28 ETS 71.69 ZAE 89.87 ETE 161.25 ZAC 72.76 ETC 203.72 CLP-171.87

PLANETOCENTRIC CONIC

C3 107.420 VHL 10.364 DLA -48.97 RAL 50.02 RAD 6570.1 VEL 15.125 PTH 2.72 VHP 13.641 OPA 61.43 RAP 285.61 ECC 2.7679
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.22 7 17 12 2047.85 13.09 51.26 308.33 137.63 7 51 20 1447.9 18.93 45.99
 131.78 15 32 16 5836.25 13.10 271.35 308.35 137.62 17 9 32 5236.2 18.94 266.08
 48.22 7 17 12 2047.85 13.09 51.26 308.33 137.63 7 51 20 1447.9 18.93 45.99
 131.78 15 32 16 5836.25 13.10 271.35 308.35 137.62 17 9 32 5236.2 18.94 266.08
 48.22 7 17 12 2047.85 13.09 51.26 308.33 137.63 7 51 20 1447.9 18.93 45.99
 131.78 15 32 16 5836.25 13.10 271.35 308.35 137.62 17 9 32 5236.2 18.94 266.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-5.3118 TRA 2.1161 TC3 -.2731 BAU .3961 SGT 3481.2 SGR 341.7 SG3 90.8 ST 2984.8 SR 133.0 SS 1019.7
 RDE -1.670 RRA -.3790 RC3 .0385 FAU .00802 RRT -.2883 RRF -.9948 RTF .9962 CRT .5537 CRS -.5257 CST -.9994
 FDE-1.5296 FRA .7249 FC3 -.0646 BSP 10999 SGB 3498.0 R23 .0679 R13 -.9964 LSA 3154.9 MSA 115.5 SSA 1.8
 BDE 5.3145 BRA 2.1498 BC3 .2758 FSP -289 SG1 3482.6 SG2 327.1 THA 178.36 EL1 2985.7 EL2 110.7 ALF 1.42

LAUNCH DATE FEB 9 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 376.693

RL 147.60 LAL .00 LOL 140.07 VL 27.731 GAL -3.88 AZL 121.32 HCA 174.40 SMA 128.95 ECC .15940 INC31.3248 V1 30.185
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.512 GAP 2.13 AZP 58.80 TAL 201.21 TAP 15.62 RCA 108.39 APO 149.50 V2 34.784
 RC 109.246 GL -64.37 GP 79.94 ZAL 97.85 ZAP 93.91 ETS 137.90 ZAE 79.80 ETE 225.51 ZAC 66.19 ETC 268.71 CLP 112.98

PLANETOCENTRIC CONIC

C3 254.536 VHL 15.954 DLA -47.46 RAL 57.01 RAD 6571.5 VEL 19.387 PTH 3.10 VHP 20.711 OPA 56.42 RAP 269.19 ECC 5.1890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.17 7 51 43 2179.46 5.45 55.70 321.97 137.22 8 28 2 1579.5 11.28 50.59
 129.83 15 53 30 712.38 5.46 301.08 321.99 137.22 16 5 22 112.4 11.30 295.96
 50.17 7 51 43 2179.46 5.45 55.70 321.97 137.22 8 28 2 1579.5 11.28 50.59
 129.83 15 53 30 712.38 5.46 301.08 321.99 137.22 16 5 22 112.4 11.30 295.96
 50.17 7 51 43 2179.46 5.45 55.70 321.97 137.22 8 28 2 1579.5 11.28 50.59
 129.83 15 53 30 712.38 5.46 301.08 321.99 137.22 16 5 22 112.4 11.30 295.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4305 TRA 2.3789 TC3 -.0096 BAU .2204 SGT 1364.5 SGR 3276.6 SG3 67.6 ST 638.5 SR 2790.2 SS 1082.8
 RDE-7.6245 RRA 3.3660 RC3 .0641 FAU .00453 RRT .8186 RRF .9896 RTF .8921 CRT .9038 CRS -.9979 CST -.9298
 FDE-1.6288 FRA .9723 FC3 .0154 BSP 11075 SGB 3549.3 R23 -.0668 R13 .9976 LSA 3048.2 MSA 271.6 SSA .8
 BDE 7.7575 BRA 4.1218 BC3 .0648 FSP -214 SG1 3471.4 SG2 739.7 THA 70.24 EL1 2849.8 EL2 267.6 ALF 78.21

LAUNCH DATE FEB 9 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 23 1969

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.706 GAL -3.53 AZL 151.62 MCA 176.59 SMA 128.77 ECC .15842 INC61.6232 V1 30.185
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.494 GAP 2.16 AZP 28.42 TAL 199.32 TAP 15.91 RCA 108.37 APO 149.17 V2 34.785
 RC 111.645 GL -54.81 GP 61.79 ZAL 93.87 ZAP 92.18 ETS 169.06 ZAE 60.86 ETE 254.57 ZAC 52.85 ETC 303.64 CLP 94.61

PLANETOCENTRIC CONIC
 C3 886.394 VHL 29.772 DLA -36.33 RAL 58.66 RAD 6572.9 VEL 31.744 PTH 3.48 VHP 37.941 DPA 41.45 RAP 251.91 ECC15.5878
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.23 9 8 4 2095.84 -.02 43.61 328.67 126.33 9 43 0 1495.8 4.71 37.56
 113.77 14 50 17 1014.37 -.00 322.35 328.68 126.33 15 7 12 414.4 4.72 316.31
 66.23 9 8 4 2095.84 -.02 43.61 328.67 126.33 9 43 0 1495.8 4.71 37.56
 113.77 14 50 17 1014.37 -.00 322.35 328.68 126.33 15 7 12 414.4 4.72 316.31
 66.23 9 8 4 2095.84 -.02 43.61 328.67 126.33 9 43 0 1495.8 4.71 37.56
 113.77 14 50 17 1014.37 -.00 322.35 328.68 126.33 15 7 12 414.4 4.72 316.31

MID-COURSE EXECUTION ACCURACY
 SGT 884.3 SGR 3184.8 SG3 55.3
 RRT -.6812 RRF .9996 RTF -.6607
 SGB 3305.3 R23 -.0661 R13 .9978
 SG1 3243.6 SG2 635.7 THA 101.14

ORBIT DETERMINATION ACCURACY
 ST 805.6 SR 2188.9 SS 1415.7
 CRT -.9483 CRS -.9999 CST .9433
 LSA 2717.1 MSA 249.3 SSA .4
 EL1 2320.0 EL2 241.2 ALF 109.46

DIFFERENTIAL CORRECTIONS
 TOE 4.1831 TRA .4060 TC3 -.0593 BAU 2.5180
 RO-10.9081 RRA 8.6406 RC3 .2040 FAU-.04091
 FDE-2.1420 FRA 1.7944 FC3 .0400 BSP 10086
 BOE11.6827 BRA 8.6502 BC3 .2125 FSP -175

LAUNCH DATE FEB 9 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 25 1969

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.679 GAL -4.16 AZL 26.57 MCA 183.45 SMA 128.58 ECC .16442 INC63.4273 V1 30.185
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.476 GAP 3.52 AZP 153.39 TAL 202.01 TAP 25.46 RCA 107.44 APO 149.72 V2 34.787
 RC 114.042 GL 53.93 GP -62.26 ZAL 94.34 ZAP 93.60 ETS 180.15 ZAE 64.20 ETE 96.40 ZAC 79.16 ETC 57.65 CLP 97.76

PLANETOCENTRIC CONIC
 C3 932.994 VHL 30.545 DLA 64.21 RAL 5.89 RAD 6572.9 VEL 32.470 PTH 3.49 VHP 37.304 DPA -73.28 RAP 181.62 ECC16.3547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.62 15 27 57 5056.61 .17 243.32 275.98 25.79 16 52 14 4456.6 -7.03 240.24
 150.38 1 29 25 3346.71 .18 100.65 275.96 25.79 2 25 12 2746.7 -7.02 97.57
 29.62 15 27 57 5056.61 .17 243.32 275.98 25.79 16 52 14 4456.6 -7.03 240.24
 150.38 1 29 25 3346.71 .18 100.65 275.96 25.79 2 25 12 2746.7 -7.02 97.57
 29.62 15 27 57 5056.61 .17 243.32 275.98 25.79 16 52 14 4456.6 -7.03 240.24
 150.38 1 29 25 3346.71 .18 100.65 275.96 25.79 2 25 12 2746.7 -7.02 97.57

MID-COURSE EXECUTION ACCURACY
 SGT 1201.5 SGR 3235.3 SG3 56.2
 RRT .8446 RRF -.9999 RTF -.8424
 SGB 3451.2 R23 -.0626 R13 -.9979
 SG1 3396.4 SG2 612.7 THA 71.98

ORBIT DETERMINATION ACCURACY
 ST 668.9 SR 2834.5 SS 1848.3
 CRT .9572 CRS 1.0000 CST .9573
 LSA 3444.1 MSA 190.1 SSA 1.0
 EL1 2906.3 EL2 188.8 ALF 77.22

DIFFERENTIAL CORRECTIONS
 TOE-3.2921 TRA 1.9837 TC3 -.0941 BAU 2.8496
 RO-15.0335 RRA 2.1980 RC3 -.2082 FAU-.04347
 FDE 3.0414 FRA -.4457 FC3 .0403 BSP 10167
 BOE15.3898 BRA 2.9608 BC3 .2285 FSP -175

LAUNCH DATE FEB 9 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 27 1969

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.650 GAL -3.80 AZL 56.11 MCA 185.67 SMA 128.38 ECC .16341 INC33.8854 V1 30.185
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.458 GAP 3.54 AZP 123.76 TAL 200.11 TAP 25.78 RCA 107.40 APO 149.36 V2 34.790
 RC 116.435 GL 63.75 GP -78.65 ZAL 97.15 ZAP 96.65 ETS 198.01 ZAE 82.90 ETE 114.11 ZAC 92.92 ETC 77.80 CLP 126.03

PLANETOCENTRIC CONIC
 C3 294.162 VHL 17.151 DLA 67.00 RAL 340.33 RAD 6571.7 VEL 20.383 PTH 3.16 VHP 20.491 DPA -76.77 RAP 103.54 ECC 5.8412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.35 13 38 33 4974.67 -5.67 243.04 247.93 23.12 15 1 28 4374.7 -13.02 240.24
 153.65 23 51 1 3242.04 -5.66 96.72 247.91 23.12 24 45 3 2642.0 -13.01 93.92
 26.35 13 38 33 4974.67 -5.67 243.04 247.93 23.12 15 1 28 4374.7 -13.02 240.24
 153.65 23 51 1 3242.04 -5.66 96.72 247.91 23.12 24 45 3 2642.0 -13.01 93.92
 26.35 13 38 33 4974.67 -5.67 243.04 247.93 23.12 15 1 28 4374.7 -13.02 240.24
 153.65 23 51 1 3242.04 -5.66 96.72 247.91 23.12 24 45 3 2642.0 -13.01 93.92

MID-COURSE EXECUTION ACCURACY
 SGT 799.6 SGR 3788.2 SG3 70.8
 RRT -.0260 RRF -.9961 RTF .1057
 SGB 3871.7 R23 -.0787 R13 -.9962
 SG1 3788.3 SG2 799.3 THA 90.33

ORBIT DETERMINATION ACCURACY
 ST 647.4 SR 2556.0 SS 1052.3
 CRT -.8396 CRS .9989 CST -.8637
 LSA 2818.0 MSA 344.2 SSA 1.5
 EL1 2614.2 EL2 343.8 ALF 102.22

DIFFERENTIAL CORRECTIONS
 TOE 1.8885 TRA .5660 TC3 -.0246 BAU .4366
 ROE-7.1927 RRA 3.3976 RC3 -.1083 FAU-.00422
 FDE 1.6987 FRA -.6892 FC3 .0124 BSP 12090
 BOE 7.4365 BRA 3.4444 BC3 .1110 FSP -229

LAUNCH DATE FEB 9 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 29 1969

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.620 GAL -3.56 AZL 67.68 MCA 188.50 SMA 128.18 ECC .16352 INC22.3215 V1 30.185
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.438 GAP 3.74 AZP 112.10 TAL 198.74 TAP 27.25 RCA 107.22 APO 149.13 V2 34.794
 RC 118.823 GL 64.03 GP -79.39 ZAL 99.98 ZAP 100.61 ETS 264.26 ZAE 93.00 ETE 180.14 ZAC 99.45 ETC 144.82 CLP-178.22

PLANETOCENTRIC CONIC
 C3 135.615 VHL 11.645 DLA 64.59 RAL 335.66 RAD 6570.5 VEL 16.030 PTH 2.83 VHP 13.637 DPA -70.25 RAP 72.38 ECC 3.2319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.17 13 26 20 4845.02 -12.92 238.13 239.42 26.12 14 47 5 4245.0 -20.07 234.81
 150.83 23 25 58 3131.77 -12.91 94.95 239.40 26.12 24 18 10 2531.8 -20.06 91.63
 29.17 13 26 20 4845.02 -12.92 238.13 239.42 26.12 14 47 5 4245.0 -20.07 234.81
 150.83 23 25 58 3131.77 -12.91 94.95 239.40 26.12 24 18 10 2531.8 -20.06 91.63
 29.17 13 26 20 4845.02 -12.92 238.13 239.42 26.12 14 47 5 4245.0 -20.07 234.81
 150.83 23 25 58 3131.77 -12.91 94.95 239.40 26.12 24 18 10 2531.8 -20.06 91.63

MID-COURSE EXECUTION ACCURACY
 SGT 3685.3 SGR 1636.9 SG3 95.5
 RRT -.9448 RRF -.9254 RTF .9974
 SGB 4032.5 R23 -.1041 R13 -.9933
 SG1 4002.1 SG2 493.9 THA 156.86

ORBIT DETERMINATION ACCURACY
 ST 2353.3 SR 677.4 SS 866.1
 CRT -.9298 CRS .9176 CST -.9995
 LSA 2585.9 MSA 245.4 SSA 1.8
 EL1 2437.0 EL2 240.7 ALF 164.86

DIFFERENTIAL CORRECTIONS
 TOE 4.4314 TRA-2.5744 TC3 -.1457 BAU .2717
 ROE -.9954 RRA 1.3604 RC3 .0349 FAU .01096
 FDE 1.4016 FRA -.7402 FC3 -.0700 BSP 12746
 BOE 4.5419 BRA 2.9117 BC3 .1499 FSP -313

LAUNCH DATE FEB 9 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 408.534

RL 147.60 LAL .00 LOL 140.07 VL 27.588 GAL -3.34 AZL 73.37 HCA 191.51 SMA 127.96 ECC .16398 INC16.6286 V1 30.185
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.419 GAP 3.98 AZP 106.31 TAL 197.49 TAP 29.01 RCA 106.98 APO 148.94 V2 34.798
 RC 121.206 GL 61.67 GP -73.56 ZAL 102.34 ZAP 105.00 ETS 297.08 ZAE 100.06 ETE 212.17 ZAC 103.54 ETC 177.84 CLP-156.07

PLANETOCENTRIC CONIC

C3 80.172 VHL 8.954 DLA 61.92 RAL 337.79 RAD 6569.6 VEL 14.196 PTH 2.59 VHP 10.347 DPA -63.88 RAP 59.05 ECC 2.3194
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.33 13 42 21 4722.16 -19.17 232.33 237.12 29.89 15 1 3 4122.2 -26.05 228.32
 147.67 23 26 57 3033.83 -19.15 92.81 237.10 29.89 24 17 31 2433.8 -26.03 88.80
 32.33 13 42 21 4722.16 -19.17 232.33 237.12 29.89 15 1 3 4122.2 -26.05 228.32
 147.67 23 26 57 3033.83 -19.15 92.81 237.10 29.89 24 17 31 2433.8 -26.03 88.80
 32.33 13 42 21 4722.16 -19.17 232.33 237.12 29.89 15 1 3 4122.2 -26.05 228.32
 147.67 23 26 57 3033.83 -19.15 92.81 237.10 29.89 24 17 31 2433.8 -26.03 88.80

DIFFERENTIAL CORRECTIONS

TOE 3.3800 TRA-2.4546 TC3 -.4778 BAU .5239
 ROE 1.0026 RRA -.2361 RC3 -.1027 FAU .02197
 FDE 1.4444 FRA -.7818 FC3 -.2372 BSP 13083
 BOE 3.5256 BRA 2.4659 BC3 .4888 FSP -421

MID-COURSE EXECUTION ACCURACY

SGT 4067.2 SGR 740.3 SG3 127.1
 RRT .8684 RRF .9291 RTF .9875
 SGB 4134.0 R23 .1304 R13 .9894
 SG1 4118.1 SG2 362.6 THA 9.06

ORBIT DETERMINATION ACCURACY

ST 2383.4 SR 648.7 SS 874.1
 CRT .9598 CRS -.9833 CST -.9949
 LSA 2613.4 MSA 188.8 SSA 2.3
 EL1 2463.8 EL2 176.1 ALF 14.72

LAUNCH DATE FEB 9 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 414.461

RL 147.60 LAL .00 LOL 140.07 VL 27.555 GAL -3.14 AZL 76.71 HCA 194.59 SMA 127.74 ECC .16467 INC13.2885 V1 30.185
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.400 GAP 4.23 AZP 102.87 TAL 196.29 TAP 30.88 RCA 106.70 APO 148.77 V2 34.803
 RC 123.581 GL 58.61 GP -67.21 ZAL 104.17 ZAP 109.57 ETS 305.34 ZAE 105.65 ETE 219.01 ZAC 106.59 ETC 185.85 CLP-149.86

PLANETOCENTRIC CONIC

C3 54.886 VHL 7.409 DLA 59.42 RAL 341.63 RAD 6569.0 VEL 13.276 PTH 2.43 VHP 8.523 DPA -57.91 RAP 51.25 ECC 1.9033
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.30 14 5 4 4618.37 -23.84 226.46 236.50 33.79 15 22 2 4018.4 -30.40 221.72
 144.70 23 34 51 2956.79 -23.83 90.54 236.49 33.79 24 24 8 2356.8 -30.39 85.81
 35.30 14 5 4 4618.37 -23.84 226.46 236.50 33.79 15 22 2 4018.4 -30.40 221.72
 144.70 23 34 51 2956.79 -23.83 90.54 236.49 33.79 24 24 8 2356.8 -30.39 85.81
 35.30 14 5 4 4618.37 -23.84 226.46 236.50 33.79 15 22 2 4018.4 -30.40 221.72
 144.70 23 34 51 2956.79 -23.83 90.54 236.49 33.79 24 24 8 2356.8 -30.39 85.81

DIFFERENTIAL CORRECTIONS

TOE 2.5957 TRA-2.2827 TC3 -.9788 BAU .7635
 ROE 1.0691 RRA -.5557 RC3 -.3529 FAU .03819
 FDE 1.4269 FRA -.9430 FC3 -.6023 BSP 18591
 BOE 2.8072 BRA 2.3494 BC3 1.0404 FSP -821

MID-COURSE EXECUTION ACCURACY

SGT 4263.2 SGR 1292.5 SG3 174.3
 RRT .9708 RRF .9934 RTF .9865
 SGB 4454.8 R23 .1290 R13 .9893
 SG1 4444.9 SG2 297.3 THA 16.48

ORBIT DETERMINATION ACCURACY

ST 2261.7 SR 864.9 SS 872.4
 CRT .9837 CRS -.9972 CST -.9943
 LSA 2568.8 MSA 161.1 SSA 2.9
 EL1 2417.1 EL2 145.7 ALF 20.69

LAUNCH DATE FEB 9 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 420.451

RL 147.60 LAL .00 LOL 140.07 VL 27.522 GAL -2.92 AZL 78.90 HCA 197.69 SMA 127.51 ECC .16543 INC11.0950 V1 30.185
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.380 GAP 4.49 AZP 100.58 TAL 195.02 TAP 32.72 RCA 106.42 APO 148.60 V2 34.808
 RC 125.948 GL 55.49 GP -61.25 ZAL 105.42 ZAP 114.10 ETS 308.41 ZAE 110.27 ETE 220.12 ZAC 109.14 ETC 188.33 CLP-148.12

PLANETOCENTRIC CONIC

C3 41.202 VHL 6.419 DLA 57.21 RAL 345.84 RAD 6568.6 VEL 12.750 PTH 2.32 VHP 7.420 DPA -52.28 RAP 46.21 ECC 1.6781
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.96 14 28 47 4533.21 -27.16 220.91 236.55 37.49 15 44 20 3933.2 -33.39 215.51
 142.04 23 44 41 2898.51 -27.15 88.37 236.54 37.48 24 33 0 2298.5 -33.38 82.97
 37.96 14 28 47 4533.21 -27.16 220.91 236.55 37.49 15 44 20 3933.2 -33.39 215.51
 142.04 23 44 41 2898.51 -27.15 88.37 236.54 37.48 24 33 0 2298.5 -33.38 82.97
 37.96 14 28 47 4533.21 -27.16 220.91 236.55 37.49 15 44 20 3933.2 -33.39 215.51
 142.04 23 44 41 2898.51 -27.15 88.37 236.54 37.48 24 33 0 2298.5 -33.38 82.97

DIFFERENTIAL CORRECTIONS

TOE 2.5189 TRA-1.8378 TC3 -1.2343 BAU .7131
 ROE 1.0897 RRA -.3886 RC3 -.3907 FAU .04030
 FDE 1.6758 FRA -.7821 FC3 -.8468 BSP 13288
 BOE 2.7445 BRA 1.8784 BC3 1.2947 FSP -635

MID-COURSE EXECUTION ACCURACY

SGT 4091.9 SGR 1268.1 SG3 194.8
 RRT .9486 RRF .9887 RTF .9748
 SGB 4283.9 R23 .1760 R13 .9798
 SG1 4266.6 SG2 384.7 THA 16.52

ORBIT DETERMINATION ACCURACY

ST 2425.6 SR 991.6 SS 990.7
 CRT .9822 CRS -.9983 CST -.9914
 LSA 2794.5 MSA 198.0 SSA 3.7
 EL1 2614.8 EL2 172.9 ALF 21.98

LAUNCH DATE FEB 9 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 426.421

RL 147.60 LAL .00 LOL 140.07 VL 27.487 GAL -2.70 AZL 80.46 HCA 200.82 SMA 127.28 ECC .16635 INC 9.5403 V1 30.185
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.360 GAP 4.75 AZP 98.93 TAL 193.77 TAP 34.59 RCA 106.11 APO 148.45 V2 34.815
 RC 128.306 GL 52.48 GP -55.77 ZAL 106.20 ZAP 118.51 ETS 309.90 ZAE 114.09 ETE 219.22 ZAC 111.36 ETC 188.96 CLP-148.06

PLANETOCENTRIC CONIC

C3 32.921 VHL 5.738 DLA 55.24 RAL 350.01 RAD 6568.3 VEL 12.421 PTH 2.24 VHP 6.723 DPA -46.99 RAP 42.79 ECC 1.5418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.36 14 52 0 4463.07 -29.44 215.80 236.97 40.89 16 6 23 3863.1 -35.33 209.80
 139.64 23 54 45 2855.32 -29.43 86.44 236.95 40.88 24 42 20 2255.3 -35.32 80.45
 40.36 14 52 0 4463.07 -29.44 215.80 236.97 40.89 16 6 23 3863.1 -35.33 209.80
 139.64 23 54 45 2855.32 -29.43 86.44 236.95 40.88 24 42 20 2255.3 -35.32 80.45
 40.36 14 52 0 4463.07 -29.44 215.80 236.97 40.89 16 6 23 3863.1 -35.33 209.80
 139.64 23 54 45 2855.32 -29.43 86.44 236.95 40.88 24 42 20 2255.3 -35.32 80.45

DIFFERENTIAL CORRECTIONS

TOE 2.3466 TRA-1.6499 TC3 -1.6666 BAU .7648
 ROE .9648 RRA -.3209 RC3 -.4917 FAU .04796
 FDE 1.7457 FRA -.7382 FC3 -1.2613 BSP 13617
 BOE 2.5372 BRA 1.6808 BC3 1.7377 FSP -745

MID-COURSE EXECUTION ACCURACY

SGT 4183.4 SGR 1250.0 SG3 225.4
 RRT .9487 RRF .9883 RTF .9703
 SGB 4366.2 R23 .1900 R13 .9754
 SG1 4349.6 SG2 380.0 THA 15.95

ORBIT DETERMINATION ACCURACY

ST 2499.2 SR 978.2 SS 1037.6
 CRT .9836 CRS -.9989 CST -.9908
 LSA 2870.7 MSA 196.6 SSA 4.5
 EL1 2678.8 EL2 164.4 ALF 21.14

LAUNCH DATE FEB 9 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.452 GAL -2.48 AZL 81.62 HCA 203.95 SMA 127.04 ECC .16738 INC 8.3761 V1 30.185
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.341 GAP 5.01 AZP 97.66 TAL 192.49 TAP 36.44 RCA 105.78 APO 148.31 V2 34.821
 RC 130.653 GL 49.65 GP -50.80 ZAL 106.52 ZAP 122.69 ETS 310.85 ZAE 117.24 ETE 217.48 ZAC 113.38 ETC 188.87 CLP-148.72

DISTANCE 432.387

PLANETOCENTRIC CONIC
 C3 27.484 VHL 5.243 DLA 53.52 RAL 354.08 RAD 6568.1 VEL 12.201 PTH 2.19 VHP 6.272 OPA -42.07 RAP 40.47 ECC 1.4523
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.49 15 14 19 4404.77 -30.99 211.20 237.72 43.92 16 27 44 3804.8 -36.57 204.71
 137.51 0 8 49 2823.14 -30.98 84.78 237.70 43.91 0 55 53 2223.1 -36.56 78.30
 42.49 15 14 19 4404.77 -30.99 211.20 237.72 43.92 16 27 44 3804.8 -36.57 204.71
 137.51 0 8 49 2823.14 -30.98 84.78 237.70 43.91 0 55 53 2223.1 -36.56 78.30
 42.49 15 14 19 4404.77 -30.99 211.20 237.72 43.92 16 27 44 3804.8 -36.57 204.71
 137.51 0 8 49 2823.14 -30.98 84.78 237.70 43.91 0 55 53 2223.1 -36.56 78.30

DIFFERENTIAL CORRECTIONS
 TDE 2.2320 TRA-1.4915 TC3-2.1184 BAU .8051 SGT 4289.4 SGR 1190.2 SG3 251.1 ST 2575.1 SR 936.2 SS 1069.9
 RDE .8470 RRA -.2523 RC3 -.5598 FAU .05409 RRT .9467 RRF .9860 RTF .9665 CRT .9845 CRS -.9993 CST -.9904
 FDE 1.7744 FRA -.6645 FC3-1.7038 BSP 13963 SGB 4451.4 R23 .1991 R13 .9711 LSA 2935.1 MSA 193.9 SSA 5.4
 BDE 2.3873 BRA 1.5127 BC3 2.1911 FSP -839 SG1 4436.0 SG2 370.6 THA 14.82 EL1 2735.6 EL2 154.4 ALF 19.76

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.416 GAL -2.24 AZL 82.53 HCA 207.10 SMA 126.80 ECC .16853 INC 7.4674 V1 30.185
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.321 GAP 5.27 AZP 96.66 TAL 191.18 TAP 38.28 RCA 105.43 APO 148.17 V2 34.829
 RC 132.989 GL 47.00 GP -46.35 ZAL 106.43 ZAP 126.59 ETS 311.57 ZAE 119.80 ETE 215.37 ZAC 115.27 ETC 188.47 CLP-149.72

DISTANCE 438.347

PLANETOCENTRIC CONIC
 C3 23.697 VHL 4.868 DLA 52.01 RAL 358.05 RAD 6568.0 VEL 12.045 PTH 2.15 VHP 5.982 OPA -37.54 RAP 38.96 ECC 1.3900
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.36 15 35 47 4355.65 -32.04 207.10 238.80 46.57 16 48 23 3755.6 -37.34 200.22
 135.64 0 19 4 2799.05 -32.03 83.40 238.78 46.56 1 5 43 2199.1 -37.33 76.52
 44.36 15 35 47 4355.65 -32.04 207.10 238.80 46.57 16 48 23 3755.6 -37.34 200.22
 135.64 0 19 4 2799.05 -32.03 83.40 238.78 46.56 1 5 43 2199.1 -37.33 76.52
 44.36 15 35 47 4355.65 -32.04 207.10 238.80 46.57 16 48 23 3755.6 -37.34 200.22
 135.64 0 19 4 2799.05 -32.03 83.40 238.78 46.56 1 5 43 2199.1 -37.33 76.52

DIFFERENTIAL CORRECTIONS
 TDE 2.1530 TRA-1.3449 TC3-2.5754 BAU .8375 SGT 4395.7 SGR 1114.6 SG3 270.8 ST 2650.0 SR 885.6 SS 1089.6
 RDE .7465 RRA -.1907 RC3 -.5966 FAU .05844 RRT .9431 RRF .9821 RTF .9628 CRT .9853 CRS -.9995 CST -.9900
 FDE 1.7690 FRA -.5643 FC3-2.1351 BSP 14229 SGB 4534.8 R23 .2040 R13 .9669 LSA 2992.9 MSA 191.0 SSA 6.4
 BDE 2.2788 BRA 1.3584 BC3 2.6436 FSP -907 SG1 4520.5 SG2 360.4 THA 13.54 EL1 2790.4 EL2 143.8 ALF 18.28

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.379 GAL -2.00 AZL 83.27 HCA 210.25 SMA 126.56 ECC .16980 INC 6.7348 V1 30.185
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.302 GAP 5.53 AZP 95.82 TAL 189.85 TAP 40.10 RCA 105.07 APO 148.05 V2 34.837
 RC 135.313 GL 44.53 GP -42.38 ZAL 105.96 ZAP 130.19 ETS 312.18 ZAE 121.85 ETE 213.12 ZAC 117.09 ETC 187.95 CLP-150.88

DISTANCE 444.298

PLANETOCENTRIC CONIC
 C3 20.939 VHL 4.576 DLA 50.70 RAL 1.97 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 5.801 OPA -33.39 RAP 38.06 ECC 1.3446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.02 15 56 33 4313.87 -32.75 203.49 240.21 48.87 17 8 27 3713.9 -37.79 196.28
 133.98 0 29 34 2780.86 -32.74 82.25 240.20 48.86 1 15 55 2180.9 -37.78 75.05
 46.02 15 56 33 4313.87 -32.75 203.49 240.21 48.87 17 8 27 3713.9 -37.79 196.28
 133.98 0 29 34 2780.86 -32.74 82.25 240.20 48.86 1 15 55 2180.9 -37.78 75.05
 46.02 15 56 33 4313.87 -32.75 203.49 240.21 48.87 17 8 27 3713.9 -37.79 196.28
 133.98 0 29 34 2780.86 -32.74 82.25 240.20 48.86 1 15 55 2180.9 -37.78 75.05

DIFFERENTIAL CORRECTIONS
 TDE 2.0944 TRA-1.2062 TC3-3.0355 BAU .8667 SGT 4503.3 SGR 1037.4 SG3 285.0 ST 2719.6 SR 834.1 SS 1097.0
 RDE .6627 RRA -.1395 RC3 -.6100 FAU .06128 RRT .9385 RRF .9764 RTF .9595 CRT .9861 CRS -.9997 CST -.9896
 FDE 1.7342 FRA -.4491 FC3-2.5337 BSP 14524 SGB 4621.3 R23 .2039 R13 .9630 LSA 3043.0 MSA 187.7 SSA 7.4
 BDE 2.1968 BRA 1.2142 BC3 3.0962 FSP -958 SG1 4608.0 SG2 350.2 THA 12.27 EL1 2841.5 EL2 132.9 ALF 16.86

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 27.342 GAL -1.74 AZL 83.87 HCA 213.40 SMA 126.31 ECC .17120 INC 6.1283 V1 30.185
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.283 GAP 5.79 AZP 95.12 TAL 188.49 TAP 41.89 RCA 104.69 APO 147.94 V2 34.846
 RC 137.625 GL 42.20 GP -38.86 ZAL 105.16 ZAP 133.49 ETS 312.73 ZAE 123.48 ETE 210.88 ZAC 118.86 ETC 187.40 CLP-152.11

DISTANCE 450.238

PLANETOCENTRIC CONIC
 C3 18.863 VHL 4.343 DLA 49.55 RAL 5.87 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 5.697 OPA -29.59 RAP 37.62 ECC 1.3104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.47 16 16 47 4278.00 -33.22 200.30 241.95 50.85 17 28 5 3678.0 -38.03 192.84
 132.53 0 40 27 2767.09 -33.21 81.32 241.93 50.84 1 26 34 2167.1 -38.01 73.87
 47.47 16 16 47 4278.00 -33.22 200.30 241.95 50.85 17 28 5 3678.0 -38.03 192.84
 132.53 0 40 27 2767.09 -33.21 81.32 241.93 50.84 1 26 34 2167.1 -38.01 73.87
 47.47 16 16 47 4278.00 -33.22 200.30 241.95 50.85 17 28 5 3678.0 -38.03 192.84
 132.53 0 40 27 2767.09 -33.21 81.32 241.93 50.84 1 26 34 2167.1 -38.01 73.87

DIFFERENTIAL CORRECTIONS
 TDE 2.0496 TRA-1.0701 TC3-3.4927 BAU .8939 SGT 4609.7 SGR 964.4 SG3 294.3 ST 2783.0 SR 785.9 SS 1094.3
 RDE .5939 RRA -.0977 RC3 -.6056 FAU .06279 RRT .9328 RRF .9688 RTF .9566 CRT .9870 CRS -.9998 CST -.9892
 FDE 1.6776 FRA -.3259 FC3-2.8818 BSP 14815 SGB 4709.5 R23 .1986 R13 .9595 LSA 3086.4 MSA 184.0 SSA 8.5
 BDE 2.1339 BRA 1.0746 BC3 3.5448 FSP -989 SG1 4697.1 SG2 341.1 THA 11.10 EL1 2889.3 EL2 121.6 ALF 15.60

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 456.168

RL 147.60 LAL .00 LOL 140.07 VL 27.304 GAL -1.48 AZL 84.38 HCA 216.56 SMA 126.07 ECC .17272 INC 5.6152 V1 30.185
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.264 GAP 6.05 AZP 94.52 TAL 187.11 TAP 43.67 RCA 104.29 APO 147.84 V2 34.855
 RC 139.923 GL 40.00 GP -35.75 ZAL 104.05 ZAP 136.51 ETS 313.22 ZAE 124.76 ETE 208.73 ZAC 120.63 ETC 186.85 CLP-35.37

PLANETOCENTRIC CONIC

C3 17.264 VHL 4.155 DLA 48.54 RAL 9.79 RAD 6567.7 VEL 11.775 PTH 2.08 VHP 5.648 DPA -26.13 RAP 37.56 ECC 1.2841
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.77 16 36 43 4246.92 -33.51 197.48 243.99 52.57 17 47 30 3646.9 -38.12 189.82
 131.23 0 51 46 2756.84 -33.50 80.58 243.98 52.56 1 37 43 2156.8 -38.11 72.92
 48.77 16 36 43 4246.92 -33.51 197.48 243.99 52.57 17 47 30 3646.9 -38.12 189.82
 131.23 0 51 46 2756.84 -33.50 80.58 243.98 52.56 1 37 43 2156.8 -38.11 72.92
 48.77 16 36 43 4246.92 -33.51 197.48 243.99 52.57 17 47 30 3646.9 -38.12 189.82
 131.23 0 51 46 2756.84 -33.50 80.58 243.98 52.56 1 37 43 2156.8 -38.11 72.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0166 TRA -.9316 TC3-3.9367 BAU .9187
 RDE .5387 RRA -.0633 RC3 -.5872 FAU .06311
 FDE 1.6093 FRA -.1977 FC3-3.1646 BSP 15089
 BDE 2.0874 BRA .9338 BC3 3.9803 FSP -1004

SGT 4711.7 SGR 898.6 SG3 299.4
 RRT .9254 RRF .9590 RTF .9537
 SGB 4796.6 R23 .1896 R13 .9562
 SG1 4784.9 SG2 335.3 THA 10.06

ST 2842.8 SR 744.1 SS 1085.3
 CRT .9882 CRS -.9999 CST -.9887
 LSA 3127.4 MSA 180.5 SSA 9.7
 EL1 2936.5 EL2 110.4 ALF 14.52

LAUNCH DATE FEB 9 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 462.085

RL 147.60 LAL .00 LOL 140.07 VL 27.266 GAL -1.20 AZL 84.83 HCA 219.73 SMA 125.82 ECC .17437 INC 5.1730 V1 30.185
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.245 GAP -6.32 AZP 93.98 TAL 185.71 TAP 45.43 RCA 103.88 APO 147.76 V2 34.865
 RC 142.207 GL 37.89 GP -33.00 ZAL 102.65 ZAP 139.27 ETS 313.65 ZAE 125.77 ETE 206.71 ZAC 122.40 ETC 186.34 CLP-154.63

PLANETOCENTRIC CONIC

C3 16.013 VHL 4.002 DLA 47.64 RAL 13.75 RAD 6567.6 VEL 11.722 PTH 2.07 VHP 5.642 DPA -22.96 RAP 37.81 ECC 1.2635
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.94 16 56 31 4219.84 -33.68 194.98 246.34 54.07 18 6 51 3619.8 -38.10 187.16
 130.06 1 3 34 2749.44 -33.66 80.00 246.33 54.06 1 49 23 2149.4 -38.09 72.19
 49.94 16 56 31 4219.84 -33.68 194.98 246.34 54.07 18 6 51 3619.8 -38.10 187.16
 130.06 1 3 34 2749.44 -33.66 80.00 246.33 54.06 1 49 23 2149.4 -38.09 72.19
 49.94 16 56 31 4219.84 -33.68 194.98 246.34 54.07 18 6 51 3619.8 -38.10 187.16
 130.06 1 3 34 2749.44 -33.66 80.00 246.33 54.06 1 49 23 2149.4 -38.09 72.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9866 TRA -.7928 TC3-4.3684 BAU .9429
 RDE .4931 RRA -.0360 RC3 -.5611 FAU .06261
 FDE 1.5272 FRA -.0740 FC3-3.3850 BSP 15377
 BDE 2.0469 BRA .7936 BC3 4.4043 FSP -1008

SGT 4811.6 SGR 840.2 SG3 301.1
 RRT .9170 RRF .9468 RTF .9515
 SGB 4884.4 R23 .1757 R13 .9535
 SG1 4873.2 SG2 330.9 THA 9.14

ST 2890.8 SR 706.5 SS 1066.9
 CRT .9896 CRS -.9998 CST -.9881
 LSA 3156.5 MSA 176.3 SSA 10.8
 EL1 2974.3 EL2 98.7 ALF 13.61

LAUNCH DATE FEB 9 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 467.990

RL 147.60 LAL .00 LOL 140.07 VL 27.228 GAL -.91 AZL 85.21 HCA 222.89 SMA 125.57 ECC .17616 INC 4.7856 V1 30.185
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.227 GAP 6.58 AZP 93.51 TAL 184.28 TAP 47.18 RCA 103.45 APO 147.69 V2 34.875
 RC 144.478 GL 35.87 GP -30.57 ZAL 100.99 ZAP 141.80 ETS 314.00 ZAE 126.55 ETE 204.85 ZAC 124.18 ETC 185.86 CLP-155.88

PLANETOCENTRIC CONIC

C3 15.029 VHL 3.877 DLA 46.82 RAL 17.77 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 5.668 DPA -20.07 RAP 38.31 ECC 1.2473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.02 17 16 21 4196.05 -33.73 192.74 248.98 55.38 18 26 17 3596.0 -38.00 184.80
 128.98 1 15 49 2744.60 -33.72 79.58 248.97 55.36 2 1 34 2144.6 -37.99 71.65
 51.02 17 16 21 4196.05 -33.73 192.74 248.98 55.38 18 26 17 3596.0 -38.00 184.80
 128.98 1 15 49 2744.60 -33.72 79.58 248.97 55.36 2 1 34 2144.6 -37.99 71.65
 51.02 17 16 21 4196.05 -33.73 192.74 248.98 55.38 18 26 17 3596.0 -38.00 184.80
 128.98 1 15 49 2744.60 -33.72 79.58 248.97 55.36 2 1 34 2144.6 -37.99 71.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9598 TRA -.6500 TC3-4.7808 BAU .9665
 RDE .4562 RRA -.0138 RC3 -.5304 FAU .06150
 FDE 1.4391 FRA .0456 FC3-3.5427 BSP 15713
 BDE 2.0122 BRA .6502 BC3 4.8101 FSP -1009

SGT 4909.2 SGR 790.4 SG3 300.3
 RRT .9070 RRF .9323 RTF .9497
 SGB 4972.5 R23 .1590 R13 .9513
 SG1 4961.5 SG2 329.3 THA 8.35

ST 2929.1 SR 674.5 SS 1042.4
 CRT .9912 CRS -.9994 CST -.9875
 LSA 3176.7 MSA 172.0 SSA 12.1
 EL1 3004.5 EL2 86.9 ALF 12.87

LAUNCH DATE FEB 9 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 473.881

RL 147.60 LAL .00 LOL 140.07 VL 27.190 GAL -.61 AZL 85.56 HCA 226.06 SMA 125.32 ECC .17811 INC 4.4417 V1 30.185
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.209 GAP 6.85 AZP 93.09 TAL 182.84 TAP 48.90 RCA 103.00 APO 147.64 V2 34.885
 RC 146.734 GL 33.89 GP -28.42 ZAL 99.08 ZAP 144.11 ETS 314.27 ZAE 127.16 ETE 203.15 ZAC 126.00 ETC 185.41 CLP-157.10

PLANETOCENTRIC CONIC

C3 14.256 VHL 3.776 DLA 46.05 RAL 21.87 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 5.719 DPA -17.41 RAP 39.02 ECC 1.2346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.04 17 36 21 4175.03 -33.69 190.72 251.88 56.53 18 45 56 3575.0 -37.82 182.68
 127.96 1 28 30 2742.15 -33.68 79.32 251.87 56.52 2 14 12 2142.2 -37.81 71.29
 52.04 17 36 21 4175.03 -33.69 190.72 251.88 56.53 18 45 56 3575.0 -37.82 182.68
 127.96 1 28 30 2742.15 -33.68 79.32 251.87 56.52 2 14 12 2142.2 -37.81 71.29
 52.04 17 36 21 4175.03 -33.69 190.72 251.88 56.53 18 45 56 3575.0 -37.82 182.68
 127.96 1 28 30 2742.15 -33.68 79.32 251.87 56.52 2 14 12 2142.2 -37.81 71.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9338 TRA -.5020 TC3-5.1657 BAU .9891
 RDE .4267 RRA .0046 RC3 -.4971 FAU .05990
 FDE 1.3478 FRA .1595 FC3-3.6376 BSP 16015
 BDE 1.9803 BRA .5021 BC3 5.1896 FSP -999

SGT 5003.3 SGR 748.4 SG3 297.4
 RRT .8954 RRF .9155 RTF .9484
 SGB 5059.0 R23 .1406 R13 .9497
 SG1 5048.2 SG2 330.3 THA 7.66

ST 2955.2 SR 647.5 SS 1012.7
 CRT .9930 CRS -.9987 CST -.9868
 LSA 3185.9 MSA 167.7 SSA 13.4
 EL1 3024.4 EL2 74.8 ALF 12.28

LAUNCH DATE FEB 9 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.151 GAL -.30 AZL 85.87 MCA 229.23 SMA 125.07 ECC .18021 INC 4.1324 V1 30.185
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.191 GAP 7.12 AZP 92.70 TAL 181.38 TAP 50.61 RCA 102.53 APO 147.61 V2 34.897
 RC 148.977 GL 31.96 GP -26.51 ZAL 96.96 ZAP 146.24 ETS 314.45 ZAE 127.63 ETE 201.61 ZAC 127.84 ETC 185.00 CLP-158.29

PLANETOCENTRIC CONIC

C3 13.660 VHL 3.696 DLA 45.31 RAL 26.04 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 5.791 DPA -14.96 RAP 39.92 ECC 1.2248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.02 17 56 39 4156.25 -33.56 188.86 255.04 57.56 19 5 55 3556.2 -37.56 180.76
 126.98 1 41 30 2742.15 -33.55 79.22 255.03 57.55 2 27 13 2142.2 -37.55 71.12
 53.02 17 56 39 4156.25 -33.56 188.86 255.04 57.56 19 5 55 3556.2 -37.56 180.76
 126.98 1 41 30 2742.15 -33.55 79.22 255.03 57.55 2 27 13 2142.2 -37.55 71.12
 53.02 17 56 39 4156.25 -33.56 188.86 255.04 57.56 19 5 55 3556.2 -37.56 180.76
 126.98 1 41 30 2742.15 -33.55 79.22 255.03 57.55 2 27 13 2142.2 -37.55 71.12

DIFFERENTIAL CORRECTIONS

TDE 1.9079 TRA -.3458 TC3-5.5119 BAU 1.0101 SGT 5092.0 SGR 713.6 SG3 292.9
 RDE .4032 RRA .0206 RC3 -.4616 FAU .05787 RRT .8818 RRF .8967 RTF .9474
 FDE 1.2563 FRA .2687 FC3-3.6679 BSP 16297 SGB 5141.8 R23 .1223 R13 .9484
 BOE 1.9500 BRA .3464 BC3 5.5312 FSP -983 SG1 5130.9 SG2 334.0 THA 7.08

ORBIT DETERMINATION ACCURACY

ST 2969.0 SR 625.4 SS 979.3
 CRT .9948 CRS -.9973 CST -.9859
 LSA 3184.0 MSA 163.8 SSA 14.7
 EL1 3033.5 EL2 62.3 ALF 11.84

LAUNCH DATE FEB 9 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.112 GAL .02 AZL 86.15 MCA 232.41 SMA 124.83 ECC .18248 INC 3.8512 V1 30.185
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.173 GAP 7.40 AZP 92.35 TAL 179.90 TAP 52.31 RCA 102.05 APO 147.60 V2 34.908
 RC 151.204 GL 30.06 GP -24.82 ZAL 94.64 ZAP 148.20 ETS 314.53 ZAE 128.00 ETE 200.23 ZAC 129.72 ETC 184.62 CLP-159.45

PLANETOCENTRIC CONIC

C3 13.215 VHL 3.635 DLA 44.57 RAL 30.29 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 5.880 DPA -12.69 RAP 40.97 ECC 1.2175
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.02 18 17 23 4139.19 -33.33 187.12 258.42 58.50 19 26 22 3539.2 -37.22 178.97
 125.98 1 54 40 2744.82 -33.32 79.29 258.41 58.49 2 40 25 2144.8 -37.21 71.14
 54.02 18 17 23 4139.19 -33.33 187.12 258.42 58.50 19 26 22 3539.2 -37.22 178.97
 125.98 1 54 40 2744.82 -33.32 79.29 258.41 58.49 2 40 25 2144.8 -37.21 71.14
 54.02 18 17 23 4139.19 -33.33 187.12 258.42 58.50 19 26 22 3539.2 -37.22 178.97
 125.98 1 54 40 2744.82 -33.32 79.29 258.41 58.49 2 40 25 2144.8 -37.21 71.14

DIFFERENTIAL CORRECTIONS

TDE 1.9015 TRA -.1635 TC3-5.7686 BAU 1.0217 SGT 5167.5 SGR 690.9 SG3 287.1
 RDE .3916 RRA .0408 RC3 -.4086 FAU .05431 RRT .8579 RRF .8772 RTF .9426
 FDE 1.1981 FRA .4009 FC3-3.5578 BSP 16646 SGB 5213.5 R23 .1259 R13 .9436
 BOE 1.9414 BRA .1685 BC3 5.7831 FSP -965 SG1 5201.6 SG2 352.7 THA 6.57

ORBIT DETERMINATION ACCURACY

ST 3001.6 SR 617.9 SS 969.6
 CRT .9964 CRS -.9950 CST -.9845
 LSA 3209.9 MSA 166.4 SSA 16.0
 EL1 3064.1 EL2 51.1 ALF 11.59

LAUNCH DATE FEB 9 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.073 GAL .36 AZL 86.41 MCA 235.59 SMA 124.58 ECC .18493 INC 3.5928 V1 30.185
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.156 GAP 7.69 AZP 92.03 TAL 178.41 TAP 54.00 RCA 101.54 APO 147.62 V2 34.920
 RC 153.416 GL 28.18 GP -23.31 ZAL 92.14 ZAP 150.02 ETS 314.51 ZAE 128.29 ETE 198.99 ZAC 131.64 ETC 184.25 CLP-160.59

PLANETOCENTRIC CONIC

C3 12.907 VHL 3.593 DLA 43.82 RAL 34.60 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 5.984 DPA -10.58 RAP 42.16 ECC 1.2124
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.05 18 38 35 4123.54 -33.01 185.47 262.02 59.36 19 47 18 3523.5 -36.79 177.29
 124.95 2 7 52 2750.29 -32.99 79.55 262.01 59.35 2 53 43 2150.3 -36.78 71.37
 55.05 18 38 35 4123.54 -33.01 185.47 262.02 59.36 19 47 18 3523.5 -36.79 177.29
 124.95 2 7 52 2750.29 -32.99 79.55 262.01 59.35 2 53 43 2150.3 -36.78 71.37
 55.05 18 38 35 4123.54 -33.01 185.47 262.02 59.36 19 47 18 3523.5 -36.79 177.29
 124.95 2 7 52 2750.29 -32.99 79.55 262.01 59.35 2 53 43 2150.3 -36.78 71.37

DIFFERENTIAL CORRECTIONS

TDE 1.8409 TRA -.0119 TC3-6.0684 BAU 1.0493 SGT 5256.6 SGR 662.0 SG3 280.6
 RDE .3698 RRA .0482 RC3 -.3914 FAU .05309 RRT .8491 RRF .8547 RTF .9455
 FDE 1.0710 FRA .4713 FC3-3.5613 BSP 16799 SGB 5298.1 R23 .0914 R13 .9462
 BOE 1.8776 BRA .0496 BC3 6.0810 FSP -931 SG1 5286.7 SG2 347.7 THA 6.13

ORBIT DETERMINATION ACCURACY

ST 2938.8 SR 590.7 SS 898.7
 CRT .9979 CRS -.9915 CST -.9832
 LSA 3125.3 MSA 158.8 SSA 17.4
 EL1 2997.3 EL2 37.2 ALF 11.34

LAUNCH DATE FEB 9 1969

FLIGHT TIME 172.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

RL 147.60 LAL .00 LOL 140.07 VL 27.034 GAL .71 AZL 86.65 MCA 238.77 SMA 124.33 ECC .18757 INC 3.3533 V1 30.185
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.139 GAP 7.98 AZP 91.74 TAL 176.91 TAP 55.68 RCA 101.01 APO 147.65 V2 34.932
 RC 155.612 GL 26.31 GP -21.96 ZAL 89.49 ZAP 151.70 ETS 314.37 ZAE 128.52 ETE 197.88 ZAC 133.59 ETC 183.91 CLP-161.69

PLANETOCENTRIC CONIC

C3 12.726 VHL 3.567 DLA 43.03 RAL 38.95 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.102 DPA -8.62 RAP 43.46 ECC 1.2094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.13 19 0 18 4108.84 -32.57 183.85 265.79 60.16 20 8 47 3508.8 -36.26 175.66
 123.87 2 20 53 2758.92 -32.56 80.02 265.78 60.15 3 6 52 2158.9 -36.25 71.83
 56.13 19 0 18 4108.84 -32.57 183.85 265.79 60.16 20 8 47 3508.8 -36.26 175.66
 123.87 2 20 53 2758.92 -32.56 80.02 265.78 60.15 3 6 52 2158.9 -36.25 71.83
 56.13 19 0 18 4108.84 -32.57 183.85 265.79 60.16 20 8 47 3508.8 -36.26 175.66
 123.87 2 20 53 2758.92 -32.56 80.02 265.78 60.15 3 6 52 2158.9 -36.25 71.83

DIFFERENTIAL CORRECTIONS

TDE 1.7941 TRA .1643 TC3-6.2713 BAU 1.0687 SGT 5334.2 SGR 642.4 SG3 273.3
 RDE .3574 RRA .0594 RC3 -.3605 FAU .05068 RRT .8323 RRF .8323 RTF .9459
 FDE .9743 FRA .5582 FC3-3.4475 BSP 17109 SGB 5372.7 R23 .0749 R13 .9464
 BOE 1.8294 BRA .1747 BC3 6.2817 FSP -911 SG1 5361.0 SG2 354.3 THA 5.75

ORBIT DETERMINATION ACCURACY

ST 2886.7 SR 575.4 SS 848.3
 CRT .9990 CRS -.9863 CST -.9814
 LSA 3059.3 MSA 156.7 SSA 18.7
 EL1 2943.4 EL2 25.4 ALF 11.26

LAUNCH DATE FEB 9 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 503.113

RL 147.60 LAL .00 LOL 140.07 VL 26.995 GAL 1.08 AZL 86.87 MCA 241.95 SMA 124.09 ECC .19042 INC 3.1291 V1 30.185
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.122 GAP 8.27 AZP 91.47 TAL 175.40 TAP 57.35 RCA 100.46 APO 147.72 V2 34.945
 RC 157.792 GL 24.45 GP -20.76 ZAL 86.70 ZAP 153.27 ETS 314.11 ZAE 128.69 ETE 196.88 ZAC 135.57 ETC 183.57 CLP-162.77

PLANETOCENTRIC CONIC

C3 12.667 VHL 3.559 DLA 42.19 RAL 43.33 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 6.231 DPA -6.79 RAP 44.88 ECC 1.2085
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.31 19 22 35 4094.72 -32.03 182.24 269.70 60.92 20 30 50 3494.7 -35.63 174.05
 122.69 2 33 29 2771.05 -32.02 80.73 269.70 60.90 3 19 40 2171.0 -35.62 72.55
 57.31 19 22 35 4094.72 -32.03 182.24 269.70 60.92 20 30 50 3494.7 -35.63 174.05
 122.69 2 33 29 2771.05 -32.02 80.73 269.70 60.90 3 19 40 2171.0 -35.62 72.55
 57.31 19 22 35 4094.72 -32.03 182.24 269.70 60.92 20 30 50 3494.7 -35.63 174.05
 122.69 2 33 29 2771.05 -32.02 80.73 269.70 60.90 3 19 40 2171.0 -35.62 72.55

DIFFERENTIAL CORRECTIONS

TDE 1.7442 TRA .3540 TC3-6.3977 BAU 1.0848
 RDE .3487 RRA .0710 RC3 -.3294 FAU .04804
 FDE .8838 FRA .6436 FC3-3.2831 BSP 17292
 BOE 1.7787 BRA .3610 BC3 6.4062 FSP -881

MID-COURSE EXECUTION ACCURACY

SGT 5405.0 SGR 627.6 SG3 265.5
 RRT .8144 RRF .8102 RTF .9461
 SGB 5441.3 R23 .0624 R13 .9465
 SG1 5429.2 SG2 362.6 TMA 5.43

ORBIT DETERMINATION ACCURACY

ST 2820.7 SR 563.3 SS 799.5
 CRT .9994 CRS -.9786 CST -.9792
 LSA 2981.3 MSA 156.6 SSA 19.9
 EL1 2876.3 EL2 19.9 ALF 11.29

LAUNCH DATE FEB 9 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 508.907

RL 147.60 LAL .00 LOL 140.07 VL 26.956 GAL 1.47 AZL 87.08 MCA 245.14 SMA 123.84 ECC .19349 INC 2.9177 V1 30.185
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.106 GAP 8.58 AZP 91.23 TAL 173.87 TAP 59.01 RCA 99.88 APO 147.81 V2 34.957
 RC 159.953 GL 22.61 GP -19.67 ZAL 83.81 ZAP 154.74 ETS 313.73 ZAE 128.84 ETE 195.99 ZAC 137.59 ETC 183.24 CLP-163.83

PLANETOCENTRIC CONIC

C3 12.729 VHL 3.568 DLA 41.30 RAL 47.69 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.372 DPA -5.08 RAP 46.39 ECC 1.2095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.58 19 45 27 4080.79 -31.38 180.61 273.74 61.64 20 53 28 3480.8 -34.89 172.44
 121.42 2 45 26 2787.08 -31.36 81.71 273.73 61.63 3 31 53 2187.1 -34.88 73.54
 58.58 19 45 27 4080.79 -31.38 180.61 273.74 61.64 20 53 28 3480.8 -34.89 172.44
 121.42 2 45 26 2787.08 -31.36 81.71 273.73 61.63 3 31 53 2187.1 -34.88 73.54
 58.58 19 45 27 4080.79 -31.38 180.61 273.74 61.64 20 53 28 3480.8 -34.89 172.44
 121.42 2 45 26 2787.08 -31.36 81.71 273.73 61.63 3 31 53 2187.1 -34.88 73.54

DIFFERENTIAL CORRECTIONS

TDE 1.6803 TRA .5485 TC3-6.4709 BAU 1.1024
 RDE .3415 RRA .0820 RC3 -.3027 FAU .04557
 FDE .7911 FRA .7204 FC3-3.0993 BSP 17568
 BOE 1.7146 BRA .5546 BC3 6.4779 FSP -857

MID-COURSE EXECUTION ACCURACY

SGT 5475.0 SGR 615.0 SG3 257.4
 RRT .7968 RRF .7883 RTF .9469
 SGB 5509.4 R23 .0503 R13 .9472
 SG1 5496.9 SG2 370.1 TMA 5.14

ORBIT DETERMINATION ACCURACY

ST 2724.7 SR 551.0 SS 745.1
 CRT .9987 CRS -.9675 CST -.9761
 LSA 2873.6 MSA 158.6 SSA 20.9
 EL1 2779.7 EL2 28.0 ALF 11.42

LAUNCH DATE FEB 9 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 514.680

RL 147.60 LAL .00 LOL 140.07 VL 26.917 GAL 1.87 AZL 87.28 MCA 248.33 SMA 123.60 ECC .19680 INC 2.7169 V1 30.185
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.090 GAP 8.89 AZP 91.00 TAL 172.34 TAP 60.67 RCA 99.28 APO 147.93 V2 34.970
 RC 162.097 GL 20.78 GP -18.70 ZAL 80.84 ZAP 156.11 ETS 313.21 ZAE 128.95 ETE 195.20 ZAC 139.63 ETC 182.91 CLP-164.86

PLANETOCENTRIC CONIC

C3 12.914 VHL 3.594 DLA 40.34 RAL 52.01 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.525 DPA -3.47 RAP 47.98 ECC 1.2125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.98 20 8 52 4066.64 -30.61 178.92 277.86 62.33 21 16 39 3466.6 -34.04 170.78
 120.02 2 56 29 2807.43 -30.60 82.98 277.86 62.32 3 43 16 2207.4 -34.03 74.84
 59.98 20 8 52 4066.64 -30.61 178.92 277.86 62.33 21 16 39 3466.6 -34.04 170.78
 120.02 2 56 29 2807.43 -30.60 82.98 277.86 62.32 3 43 16 2207.4 -34.03 74.84
 59.98 20 8 52 4066.64 -30.61 178.92 277.86 62.33 21 16 39 3466.6 -34.04 170.78
 120.02 2 56 29 2807.43 -30.60 82.98 277.86 62.32 3 43 16 2207.4 -34.03 74.84

DIFFERENTIAL CORRECTIONS

TDE 1.6078 TRA .7542 TC3-6.4693 BAU 1.1180
 RDE .3367 RRA .0933 RC3 -.2768 FAU .04302
 FDE .7021 FRA .7937 FC3-2.8837 BSP 17811
 BOE 1.6426 BRA .7599 BC3 6.4752 FSP -832

MID-COURSE EXECUTION ACCURACY

SGT 5538.8 SGR 604.8 SG3 249.0
 RRT .7788 RRF .7672 RTF .9476
 SGB 5571.7 R23 .0412 R13 .9478
 SG1 5558.9 SG2 378.0 TMA 4.88

ORBIT DETERMINATION ACCURACY

ST 2610.4 SR 540.0 SS 691.6
 CRT .9964 CRS -.9516 CST -.9723
 LSA 2749.0 MSA 163.4 SSA 21.6
 EL1 2665.3 EL2 45.0 ALF 11.65

LAUNCH DATE FEB 9 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 520.431

RL 147.60 LAL .00 LOL 140.07 VL 26.878 GAL 2.29 AZL 87.48 MCA 251.52 SMA 123.36 ECC .20037 INC 2.5245 V1 30.185
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.074 GAP 9.22 AZP 90.80 TAL 170.80 TAP 62.32 RCA 98.64 APO 148.08 V2 34.983
 RC 164.221 GL 18.98 GP -17.82 ZAL 77.81 ZAP 157.40 ETS 312.54 ZAE 129.04 ETE 194.48 ZAC 141.70 ETC 182.56 CLP-165.86

PLANETOCENTRIC CONIC

C3 13.228 VHL 3.637 DLA 39.31 RAL 56.26 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 6.688 DPA -1.95 RAP 49.66 ECC 1.2177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.51 20 32 52 4051.91 -29.73 177.15 282.05 63.00 21 40 24 3451.9 -33.09 169.06
 118.49 3 6 23 2832.52 -29.72 84.57 282.04 62.99 3 53 36 2232.5 -33.08 76.48
 61.51 20 32 52 4051.91 -29.73 177.15 282.05 63.00 21 40 24 3451.9 -33.09 169.06
 118.49 3 6 23 2832.52 -29.72 84.57 282.04 62.99 3 53 36 2232.5 -33.08 76.48
 61.51 20 32 52 4051.91 -29.73 177.15 282.05 63.00 21 40 24 3451.9 -33.09 169.06
 118.49 3 6 23 2832.52 -29.72 84.57 282.04 62.99 3 53 36 2232.5 -33.08 76.48

DIFFERENTIAL CORRECTIONS

TDE 1.5247 TRA .9698 TC3-6.4022 BAU 1.1331
 RDE .3333 RRA .1049 RC3 -.2538 FAU .04058
 FDE .6151 FRA .8619 FC3-2.6557 BSP 18042
 BOE 1.5607 BRA .9755 BC3 6.4073 FSP -806

MID-COURSE EXECUTION ACCURACY

SGT 5599.7 SGR 596.2 SG3 240.5
 RRT .7617 RRF .7473 RTF .9487
 SGB 5631.3 R23 .0328 R13 .9489
 SG1 5618.1 SG2 385.0 TMA 4.66

ORBIT DETERMINATION ACCURACY

ST 2477.9 SR 529.0 SS 638.1
 CRT .9917 CRS -.9293 CST -.9675
 LSA 2607.1 MSA 171.7 SSA 22.0
 EL1 2532.9 EL2 66.5 ALF 11.96

LAUNCH DATE FEB 9 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 10 1969

Heliocentric Conic
 RL 147.60 LAL .00 LOL 140.07 VL 26.839 GAL 2.73 AZL 87.66 HCA 254.71 SMA 123.12 ECC .20422 INC 2.3391 V1 30.185
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.058 GAP 9.56 AZP 90.62 TAL 169.26 TAP 63.97 RCA 97.98 APO 148.27 V2 34.996
 RC 166.326 GL -17.21 GP -17.03 ZAL 74.77 ZAP 158.61 ETS 311.72 ZAE 129.12 ETE 193.84 ZAC 143.80 ETC 182.19 CLP-166.85

Distance 526.158

Planeto-centric Conic
 C3 13.677 VHL 3.698 DLA 38.22 RAL 60.41 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 6.863 DPA -.53 RAP 51.40 ECC 1.2251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.18 20 57 28 4036.03 -28.75 175.26 286.27 63.65 22 4 44 3436.0 -32.04 167.22
 116.82 3 14 52 2862.94 -28.74 86.54 286.26 63.63 4 2 35 2262.9 -32.03 78.49
 63.18 20 57 28 4036.03 -28.75 175.26 286.27 63.65 22 4 44 3436.0 -32.04 167.22
 116.82 3 14 52 2862.94 -28.74 86.54 286.26 63.63 4 2 35 2262.9 -32.03 78.49
 63.18 20 57 28 4036.03 -28.75 175.26 286.27 63.65 22 4 44 3436.0 -32.04 167.22
 116.82 3 14 52 2862.94 -28.74 86.54 286.26 63.63 4 2 35 2262.9 -32.03 78.49

Differential Corrections
 TDE 1.4359 TRA 1.2007 TC3-6.2556 BAU 1.1446 SGT 5653.7 SGR 589.3 SG3 232.0 ST 2339.4 SR 519.0 SS 590.0
 RDE .3319 RRA .1176 RC3 -.2304 FAU .03799 RRT .7449 RRF .7291 RTF .9493 CRT .9836 CRS -.8985 CST -.9617
 FDE .5339 FRA .9301 FC3-2.4046 BSP 18174 SGB 5684.3 R23 .0279 R13 .9494 LSA 2460.8 MSA 184.5 SSA 22.0
 BOE 1.4738 BRA 1.2064 BC3 6.2599 FSP -775 SG1 5670.8 SG2 392.0 THA 4.46 EL1 2394.5 EL2 91.5 ALF 12.33

Mid-Course Execution Accuracy
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 12 1969

Heliocentric Conic
 RL 147.60 LAL .00 LOL 140.07 VL 26.801 GAL 3.19 AZL 87.84 HCA 257.91 SMA 122.89 ECC .20836 INC 2.1591 V1 30.185
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.043 GAP 9.91 AZP 90.45 TAL 167.72 TAP 65.62 RCA 97.28 APO 148.49 V2 35.010
 RC 168.410 GL 15.48 GP -16.31 ZAL 71.72 ZAP 159.75 ETS 310.73 ZAE 129.18 ETE 193.27 ZAC 145.92 ETC 181.80 CLP-167.82

Distance 531.857

Planeto-centric Conic
 C3 14.273 VHL 3.778 DLA 37.08 RAL 64.43 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 7.050 DPA .82 RAP 53.21 ECC 1.2349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.99 21 22 42 4018.55 -27.68 173.24 290.49 64.27 22 29 41 3418.6 -30.90 165.26
 115.01 3 21 42 2899.13 -27.67 88.90 290.49 64.26 4 10 1 2299.1 -30.89 80.92
 64.99 21 22 42 4018.55 -27.68 173.24 290.49 64.27 22 29 41 3418.6 -30.90 165.26
 115.01 3 21 42 2899.13 -27.67 88.90 290.49 64.26 4 10 1 2299.1 -30.89 80.92
 64.99 21 22 42 4018.55 -27.68 173.24 290.49 64.27 22 29 41 3418.6 -30.90 165.26
 115.01 3 21 42 2899.13 -27.67 88.90 290.49 64.26 4 10 1 2299.1 -30.89 80.92

Differential Corrections
 TDE 1.3336 TRA 1.4384 TC3-6.0616 BAU 1.1573 SGT 5704.8 SGR 582.4 SG3 223.5 ST 2186.9 SR 508.0 SS 542.8
 RDE .3313 RRA .1302 RC3 -.2107 FAU .03564 RRT .7292 RRF .7116 RTF .9504 CRT .9703 CRS -.8561 CST -.9546
 FDE .4532 FRA .9910 FC3-2.1616 BSP 18395 SGB 5734.4 R23 .0223 R13 .9505 LSA 2300.9 MSA 201.6 SSA 21.5
 BOE 1.3742 BRA 1.4443 BC3 6.0653 FSP -751 SG1 5720.6 SG2 397.4 THA 4.28 EL1 2241.9 EL2 119.9 ALF 12.74

Mid-Course Execution Accuracy
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 14 1969

Heliocentric Conic
 RL 147.60 LAL .00 LOL 140.07 VL 26.763 GAL 3.67 AZL 88.02 HCA 261.11 SMA 122.65 ECC .21284 INC 1.9833 V1 30.185
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.028 GAP 10.28 AZP 90.31 TAL 166.18 TAP 67.28 RCA 96.55 APO 148.76 V2 35.023
 RC 170.474 GL 13.79 GP -15.66 ZAL 68.70 ZAP 160.82 ETS 309.56 ZAE 129.24 ETE 192.75 ZAC 148.06 ETC 181.36 CLP-168.78

Distance 537.525

Planeto-centric Conic
 C3 15.027 VHL 3.876 DLA 35.89 RAL 68.29 RAD 6567.6 VEL 11.680 PTH 2.05 VHP 7.249 DPA 2.08 RAP 55.08 ECC 1.2473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.96 21 48 40 3998.83 -26.52 171.03 294.71 64.87 22 55 19 3398.8 -29.67 163.11
 113.04 3 26 36 2941.77 -26.51 91.72 294.71 64.86 4 15 38 2341.8 -29.66 83.80
 66.96 21 48 40 3998.83 -26.52 171.03 294.71 64.87 22 55 19 3398.8 -29.67 163.11
 113.04 3 26 36 2941.77 -26.51 91.72 294.71 64.86 4 15 38 2341.8 -29.66 83.80
 66.96 21 48 40 3998.83 -26.52 171.03 294.71 64.87 22 55 19 3398.8 -29.67 163.11
 113.04 3 26 36 2941.77 -26.51 91.72 294.71 64.86 4 15 38 2341.8 -29.66 83.80

Differential Corrections
 TDE 1.2230 TRA 1.6888 TC3-5.8135 BAU 1.1686 SGT 5751.2 SGR 575.8 SG3 215.1 ST 2034.8 SR 496.9 SS 501.9
 RDE .3319 RRA .1437 RC3 -.1922 FAU .03333 RRT .7144 RRF .6956 RTF .9513 CRT .9496 CRS -.7999 CST -.9466
 FDE .3766 FRA 1.0500 FC3-1.9200 BSP 18595 SGB 5780.0 R23 .0181 R13 .9514 LSA 2142.2 MSA 223.5 SSA 20.9
 BOE 1.2673 BRA 1.6949 BC3 5.8167 FSP -726 SG1 5766.0 SG2 401.9 THA 4.11 EL1 2089.1 EL2 151.6 ALF 13.13

Mid-Course Execution Accuracy
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 16 1969

Heliocentric Conic
 RL 147.60 LAL .00 LOL 140.07 VL 26.724 GAL 4.18 AZL 88.19 HCA 264.31 SMA 122.42 ECC .21768 INC 1.8103 V1 30.185
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.013 GAP 10.67 AZP 90.18 TAL 164.63 TAP 68.94 RCA 95.77 APO 149.07 V2 35.036
 RC 172.518 GL 12.17 GP -15.06 ZAL 65.74 ZAP 161.83 ETS 308.18 ZAE 129.28 ETE 192.28 ZAC 150.22 ETC 180.88 CLP-169.72

Distance 543.160

Planeto-centric Conic
 C3 15.957 VHL 3.995 DLA 34.67 RAL 72.00 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 7.462 DPA 3.28 RAP 57.00 ECC 1.2626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.10 22 15 34 3975.90 -25.30 168.59 298.92 65.45 23 21 50 3375.9 -28.39 160.73
 110.90 3 29 14 2991.78 -25.29 95.05 298.91 65.44 4 19 6 2391.8 -28.38 87.19
 69.10 22 15 34 3975.90 -25.30 168.59 298.92 65.45 23 21 50 3375.9 -28.39 160.73
 110.90 3 29 14 2991.78 -25.29 95.05 298.91 65.44 4 19 6 2391.8 -28.38 87.19
 69.10 22 15 34 3975.90 -25.30 168.59 298.92 65.45 23 21 50 3375.9 -28.39 160.73
 110.90 3 29 14 2991.78 -25.29 95.05 298.91 65.44 4 19 6 2391.8 -28.38 87.19

Differential Corrections
 TDE 1.1055 TRA 1.9527 TC3-5.5192 BAU 1.1780 SGT 5792.7 SGR 569.5 SG3 206.9 ST 1890.9 SR 485.6 SS 468.5
 RDE .3336 RRA .1579 RC3 -.1747 FAU .03107 RRT .7008 RRF .6811 RTF .9522 CRT .9188 CRS -.7285 CST -.9388
 FDE .3046 FRA 1.1070 FC3-1.6855 BSP 18772 SGB 5820.6 R23 .0147 R13 .9523 LSA 1992.1 MSA 249.6 SSA 20.0
 BOE 1.1548 BRA 1.9590 BC3 5.5219 FSP -702 SG1 5806.5 SG2 405.3 THA 3.96 EL1 1943.4 EL2 186.5 ALF 13.40

Mid-Course Execution Accuracy
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 9 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 548.757

RL 147.60 LAL .00 LOL 140.07 VL 26.686 GAL 4.71 AZL 88.36 HCA 267.51 SMA 122.19 ECC .22291 INC 1.6391 V1 30.185
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.998 GAP 11.08 AZP 90.07 TAL 163.10 TAP 70.61 RCA 94.96 APO 149.43 V2 35.050
 RC 174.540 GL 10.61 GP -14.52 ZAL 62.84 ZAP 162.78 ETS 306.59 ZAE 129.32 ETE 191.85 ZAC 152.39 ETC 180.32 CLP-170.65

PLANETOCENTRIC CONIC

C3 17.082 VHL 4.133 DLA 33.44 RAL 75.52 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 7.689 DPA 4.40 RAP 58.97 ECC 1.2811
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.43 22 43 43 3948.48 -24.02 165.82 303.09 66.01 23 49 31 3348.5 -27.05 158.03
 108.57 3 29 12 3050.39 -24.01 98.98 303.08 66.00 4 20 2 2450.4 -27.04 91.19
 71.43 22 43 43 3948.48 -24.02 165.82 303.09 66.01 23 49 31 3348.5 -27.05 158.03
 108.57 3 29 12 3050.39 -24.01 98.98 303.08 66.00 4 20 2 2450.4 -27.04 91.19
 110.00 4 32 1 2857.93 -28.75 86.14 305.18 70.66 5 19 39 2257.9 -31.11 77.73
 110.00 2 43 59 3188.93 -19.45 107.31 300.65 61.32 3 37 8 2588.9 -23.12 100.10

DIFFERENTIAL CORRECTIONS

TDE .9844 TRA 2.2334 TC3-5.1821 BAU 1.1840
 RDE .3367 RRA .1731 RC3 -.1575 FAU .02879
 FDE .2388 FRA 1.1638 FC3-1.4591 BSP 18858
 BOE 1.0404 BRA 2.2401 BC3 5.1845 FSP -674

MID-COURSE EXECUTION ACCURACY

SGT 5829.0 SGR 563.4 SG3 198.9
 RRT .6885 RRF .6686 RTF .9530
 SGB 5856.2 R23 .0126 R13 .9531
 SG1 5842.0 SG2 407.7 THA 3.83

ORBIT DETERMINATION ACCURACY

ST 1765.7 SR 474.6 SS 444.3
 CRT .8751 CRS -.6447 CST -.9331
 LSA 1860.8 MSA 278.6 SSA 19.1
 EL1 1814.7 EL2 223.5 ALF 13.44

LAUNCH DATE FEB 9 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 554.309

RL 147.60 LAL .00 LOL 140.07 VL 26.649 GAL 5.27 AZL 88.53 HCA 270.72 SMA 121.97 ECC .22857 INC 1.4687 V1 30.185
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.983 GAP 11.51 AZP 89.98 TAL 161.57 TAP 72.28 RCA 94.09 APO 149.85 V2 35.063
 RC 176.542 GL 9.12 GP -14.03 ZAL 60.03 ZAP 163.68 ETS 304.76 ZAE 129.34 ETE 191.47 ZAC 154.58 ETC 179.67 CLP-171.58

PLANETOCENTRIC CONIC

C3 18.427 VHL 4.293 DLA 32.19 RAL 78.85 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 7.931 DPA 5.46 RAP 60.99 ECC 1.3033
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.01 23 13 38 3914.64 -22.70 162.59 307.22 66.54 24 18 53 3314.6 -25.68 154.86
 105.99 3 25 53 3119.45 -22.69 103.66 307.21 66.53 4 17 52 2519.5 -25.67 95.93
 74.01 23 13 38 3914.64 -22.70 162.59 307.22 66.54 24 18 53 3314.6 -25.68 154.86
 105.99 3 25 53 3119.45 -22.69 103.66 307.21 66.53 4 17 52 2519.5 -25.67 95.93
 110.00 5 19 14 2769.07 -30.59 79.88 310.38 73.94 6 5 23 2169.1 -32.49 71.17
 110.00 2 23 24 3313.02 -15.24 114.46 303.16 59.03 3 18 37 2713.0 -19.23 107.62

DIFFERENTIAL CORRECTIONS

TDE .8533 TRA 2.5249 TC3-4.8302 BAU 1.1904
 RDE .3402 RRA .1886 RC3 -.1421 FAU .02669
 FDE .1749 FRA 1.2170 FC3-1.2538 BSP 19025
 BOE .9186 BRA 2.5319 BC3 4.8323 FSP -652

MID-COURSE EXECUTION ACCURACY

SGT 5861.1 SGR 556.3 SG3 191.2
 RRT .6770 RRF .6565 RTF .9539
 SGB 5887.4 R23 .0102 R13 .9540
 SG1 5873.2 SG2 408.6 THA 3.69

ORBIT DETERMINATION ACCURACY

ST 1655.3 SR 462.7 SS 426.4
 CRT .8149 CRS -.5471 CST -.9300
 LSA 1743.5 MSA 309.2 SSA 18.2
 EL1 1698.8 EL2 261.3 ALF 13.15

LAUNCH DATE FEB 9 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 559.813

RL 147.60 LAL .00 LOL 140.07 VL 26.611 GAL 5.87 AZL 88.70 HCA 273.92 SMA 121.75 ECC .23470 INC 1.2978 V1 30.185
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.969 GAP 11.96 AZP 89.91 TAL 160.05 TAP 73.97 RCA 93.17 APO 150.32 V2 35.076
 RC 178.523 GL 7.70 GP -13.58 ZAL 57.32 ZAP 164.52 ETS 302.67 ZAE 129.36 ETE 191.12 ZAC 156.77 ETC 178.91 CLP-172.50

PLANETOCENTRIC CONIC

C3 20.019 VHL 4.474 DLA 30.95 RAL 82.00 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 8.191 DPA 6.45 RAP 63.05 ECC 1.3295
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.95 23 46 30 3870.49 -21.36 158.63 311.31 67.05 24 51 0 3270.5 -24.28 150.96
 103.05 3 18 7 3202.76 -21.35 109.35 311.30 67.04 4 11 30 2602.8 -24.28 101.68
 76.95 23 46 30 3870.49 -21.36 158.63 311.31 67.05 24 51 0 3270.5 -24.28 150.96
 103.05 3 18 7 3202.76 -21.35 109.35 311.30 67.04 4 11 30 2602.8 -24.28 101.68
 110.00 5 55 30 2712.06 -31.59 75.74 315.10 76.21 6 40 42 2112.1 -33.16 66.86
 110.00 2 12 13 3409.19 -11.80 119.79 306.10 57.68 3 9 3 2809.2 -15.98 113.18

DIFFERENTIAL CORRECTIONS

TDE .7172 TRA 2.8324 TC3-4.4616 BAU 1.1946
 RDE .3445 RRA .2048 RC3 -.1276 FAU .02465
 FDE .1155 FRA 1.2695 FC3-1.0661 BSP 19170
 BOE .7956 BRA 2.8398 BC3 4.4634 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 5888.2 SGR 548.8 SG3 183.8
 RRT .6667 RRF .6457 RTF .9550
 SGB 5913.7 R23 .0080 R13 .9550
 SG1 5899.6 SG2 408.3 THA 3.57

ORBIT DETERMINATION ACCURACY

ST 1570.9 SR 450.6 SS 416.3
 CRT .7374 CRS -.4433 CST -.9315
 LSA 1652.0 MSA 338.5 SSA 17.3
 EL1 1606.9 EL2 297.6 ALF 12.37

LAUNCH DATE FEB 9 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 565.260

RL 147.60 LAL .00 LOL 140.07 VL 26.574 GAL 6.50 AZL 88.87 HCA 277.14 SMA 121.53 ECC .24136 INC 1.1256 V1 30.185
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.954 GAP 12.44 AZP 89.86 TAL 158.54 TAP 75.68 RCA 92.19 APO 150.86 V2 35.089
 RC 180.483 GL 6.36 GP -13.17 ZAL 54.73 ZAP 165.30 ETS 300.30 ZAE 129.37 ETE 190.80 ZAC 158.96 ETC 177.98 CLP-173.41

PLANETOCENTRIC CONIC

C3 21.894 VHL 4.679 DLA 29.73 RAL 84.96 RAD 6567.9 VEL 11.970 PTH 2.13 VHP 8.469 DPA 7.38 RAP 65.14 ECC 1.3603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.54 0 28 56 3807.04 -20.01 153.28 315.36 67.54 1 32 23 3207.0 -22.88 145.68
 99.46 3 3 12 3309.17 -20.00 116.69 315.35 67.53 3 58 21 2709.2 -22.87 109.08
 100.00 3 33 30 3212.33 -22.20 110.42 316.28 69.45 4 27 3 2612.3 -24.79 102.59
 100.00 2 41 19 3379.11 -17.84 120.89 314.36 65.61 3 37 38 2779.1 -20.99 113.51
 110.00 6 26 22 2670.35 -32.23 72.65 319.57 77.93 7 10 52 2070.3 -33.55 63.67
 110.00 2 4 57 3493.86 -8.68 124.37 309.20 56.81 3 3 11 2893.9 -12.99 117.92

DIFFERENTIAL CORRECTIONS

TDE .5760 TRA 3.1567 TC3-4.0858 BAU 1.1964
 RDE .3497 RRA .2216 RC3 -.1137 FAU .02267
 FDE .0603 FRA 1.3216 FC3 -.8966 BSP 19298
 BOE .6738 BRA 3.1645 BC3 4.0874 FSP -607

MID-COURSE EXECUTION ACCURACY

SGT 5910.4 SGR 540.6 SG3 176.7
 RRT .6571 RRF .6360 RTF .9560
 SGB 5935.0 R23 .0063 R13 .9561
 SG1 5921.1 SG2 406.8 THA 3.46

ORBIT DETERMINATION ACCURACY

ST 1514.6 SR 438.3 SS 413.1
 CRT .6440 CRS -.3398 CST -.9375
 LSA 1588.8 MSA 363.5 SSA 16.5
 EL1 1542.0 EL2 329.4 ALF 11.07

LAUNCH DATE FEB 9 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 26 1969

DISTANCE 570.642

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.538 GAL 7.16 AZL 89.05 MCA 280.35 SMA 121.31 ECC .24860 INC .9507 V1 30.185
 RP 107.96 LAP -.94 LOP 60.42 VP 36.940 GAP 12.96 AZP 89.83 TAL 157.06 TAP 77.40 RCA 91.15 APO 151.47 V2 35.102
 RC 182.422 GL 5.11 GP -12.79 ZAL 52.25 ZAP 166.02 ETS 297.61 ZAE 129.37 ETE 190.50 ZAC 161.16 ETC 176.84 CLP-174.32

PLANETOCENTRIC CONIC
 C3 24.093 VHL 4.908 DLA 28.53 RAL 87.73 RAD 6568.0 VEL 12.061 PTH 2.16 VHP 8.769 DPA 8.25 RAP 67.26 ECC 1.3965
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.33 1 26 28 3680.71 -18.66 143.39 319.36 68.01 2 27 49 3080.7 -21.48 135.84
 93.67 2 27 47 3482.11 -18.64 128.85 319.35 68.00 3 25 49 2882.1 -21.47 121.29
 100.00 4 34 0 3075.71 -25.17 101.37 321.82 73.32 5 25 16 2475.7 -27.22 93.16
 100.00 2 2 56 3562.34 -12.37 131.75 316.36 62.57 3 2 18 2962.3 -15.95 124.78
 110.00 6 53 34 2638.83 -32.65 70.29 323.90 79.27 7 37 33 2038.8 -33.79 61.24
 110.00 1 59 52 3571.99 -5.75 128.51 312.39 56.25 2 59 24 2972.0 -10.14 122.18

DIFFERENTIAL CORRECTIONS
 TDE .4343 TRA 3.5037 TC3-3.7038 BAU 1.1934
 RDE .3558 RRA .2392 RC3 -.1000 FAU .02067
 FDE .0107 FRA 1.3757 FC3 -.7429 BSP 19317
 BDE .5614 BRA 3.5118 BC3 3.7051 FSP -582

MID-COURSE EXECUTION ACCURACY
 SGT 5928.7 SGR 532.1 SG3 170.0
 RRT .6489 RRF .6281 RTF .9571
 SGB 5952.5 R23 .0054 R13 .9571
 SG1 5938.7 SG2 404.2 THA 3.35

ORBIT DETERMINATION ACCURACY
 ST 1489.7 SR 426.2 SS 415.9
 CRT .5419 CRS -.2460 CST -.9471
 LSA 1558.3 MSA 381.3 SSA 15.7
 EL1 1508.6 EL2 353.7 ALF 9.33

LAUNCH DATE FEB 9 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 28 1969

DISTANCE 575.949

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.501 GAL 7.87 AZL 89.23 MCA 283.56 SMA 121.10 ECC .25648 INC .7721 V1 30.185
 RP 107.92 LAP -.75 LOP 63.64 VP 36.926 GAP 13.51 AZP 89.82 TAL 155.59 TAP 79.15 RCA 90.04 APO 152.16 V2 35.114
 RC 184.340 GL 3.93 GP -12.45 ZAL 49.90 ZAP 166.69 ETS 294.57 ZAE 129.35 ETE 190.23 ZAC 163.35 ETC 175.39 CLP-175.24

PLANETOCENTRIC CONIC
 C3 26.667 VHL 5.164 DLA 27.37 RAL 90.32 RAD 6568.1 VEL 12.167 PTH 2.18 VHP 9.092 DPA 9.06 RAP 69.41 ECC 1.4389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 11 38 3397.20 -22.74 124.20 325.35 72.65 4 8 15 2797.2 -24.90 116.20
 90.00 1 3 17 3815.70 -12.04 150.20 320.92 64.17 2 6 53 3215.7 -15.42 143.15
 100.00 5 11 33 3010.60 -26.37 96.90 326.49 75.39 6 1 44 2410.6 -28.12 88.53
 100.00 1 46 3 3677.93 -8.68 138.30 319.16 61.28 2 42 20 3077.5 -12.45 131.54
 110.00 7 17 56 2615.11 -32.94 68.50 328.12 80.29 8 1 31 2015.1 -33.93 59.40
 110.00 1 56 9 3645.78 -2.94 132.38 315.64 55.93 2 56 55 3045.8 -7.40 126.13

DIFFERENTIAL CORRECTIONS
 TDE .2831 TRA 3.8654 TC3-3.3371 BAU 1.1901
 RDE .3622 RRA .2568 RC3 -.0877 FAU .01885
 FDE -.0375 FRA 1.4279 FC3 -.6119 BSP 19437
 BDE .4597 BRA 3.8739 BC3 3.3383 FSP -562

MID-COURSE EXECUTION ACCURACY
 SGT 5941.5 SGR 522.2 SG3 163.6
 RRT .6408 RRF .6200 RTF .9585
 SGB 5964.4 R23 .0040 R13 .9585
 SG1 5951.0 SG2 400.3 THA 3.24

ORBIT DETERMINATION ACCURACY
 ST 1486.1 SR 413.3 SS 421.9
 CRT .4331 CRS -.1569 CST -.9575
 LSA 1550.5 MSA 391.4 SSA 15.0
 EL1 1497.5 EL2 369.7 ALF 7.32

LAUNCH DATE FEB 9 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 30 1969

DISTANCE 581.167

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.465 GAL 8.63 AZL 89.41 MCA 286.78 SMA 120.89 ECC .26508 INC .5885 V1 30.185
 RP 107.88 LAP -.56 LOP 66.85 VP 36.912 GAP 14.10 AZP 89.83 TAL 154.15 TAP 80.93 RCA 88.84 APO 152.93 V2 35.126
 RC 186.236 GL 2.83 GP -12.13 ZAL 47.68 ZAP 167.28 ETS 291.17 ZAE 129.33 ETE 189.98 ZAC 165.52 ETC 173.51 CLP-176.16

PLANETOCENTRIC CONIC
 C3 29.676 VHL 5.448 DLA 26.25 RAL 92.73 RAD 6568.2 VEL 12.290 PTH 2.21 VHP 9.441 DPA 9.81 RAP 71.59 ECC 1.4884
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 54 3321.79 -24.18 119.15 330.07 74.79 4 47 16 2721.8 -26.03 110.97
 90.00 0 42 15 3944.43 -8.12 157.63 323.61 62.78 1 48 0 3344.4 -11.70 150.78
 100.00 5 41 48 2967.52 -27.07 93.89 330.89 76.82 6 31 15 2367.5 -28.62 85.43
 100.00 1 35 3 3773.93 -5.49 143.68 322.18 60.57 2 37 57 3173.9 -9.37 137.04
 110.00 7 39 58 2597.78 -33.13 67.18 332.25 81.05 8 23 16 1997.8 -34.01 58.05
 110.00 1 53 22 3716.44 -2.24 136.07 318.93 55.82 2 55 19 3116.4 -4.73 129.86

DIFFERENTIAL CORRECTIONS
 TDE .1271 TRA 4.2490 TC3-2.9816 BAU 1.1833
 RDE .3692 RRA .2746 RC3 -.0761 FAU .01707
 FDE -.0826 FRA 1.4812 FC3 -.4981 BSP 19538
 BDE .3905 BRA 4.2579 BC3 2.9826 FSP -543

MID-COURSE EXECUTION ACCURACY
 SGT 5949.7 SGR 511.3 SG3 157.4
 RRT .6331 RRF .6126 RTF .9600
 SGB 5971.6 R23 .0027 R13 .9601
 SG1 5958.5 SG2 395.1 THA 3.13

ORBIT DETERMINATION ACCURACY
 ST 1504.0 SR 400.2 SS 431.1
 CRT .3267 CRS -.0787 CST -.9673
 LSA 1566.2 MSA 393.4 SSA 14.3
 EL1 1510.0 EL2 376.7 ALF 5.30

LAUNCH DATE FEB 9 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 1 1969

DISTANCE 586.282

MELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.430 GAL 9.44 AZL 89.60 MCA 290.00 SMA 120.68 ECC .27449 INC .3982 V1 30.185
 RP 107.85 LAP -.37 LOP 70.07 VP 36.898 GAP 14.74 AZP 89.86 TAL 152.74 TAP 82.74 RCA 87.56 APO 153.81 V2 35.138
 RC 188.109 GL 1.80 GP -11.84 ZAL 45.59 ZAP 167.81 ETS 287.39 ZAE 129.28 ETE 189.74 ZAC 167.67 ETC 170.96 CLP-177.09

PLANETOCENTRIC CONIC
 C3 33.195 VHL 5.762 DLA 25.17 RAL 94.98 RAD 6568.3 VEL 12.432 PTH 2.25 VHP 9.820 DPA 10.51 RAP 73.78 ECC 1.5463
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 54 3275.15 -24.97 115.96 334.46 76.20 5 17 29 2675.2 -26.63 107.68
 90.00 0 29 10 4047.42 -4.87 163.45 326.58 62.07 1 36 37 3447.4 -8.57 156.73
 100.00 6 7 40 2937.37 -27.52 91.76 335.12 77.85 6 56 38 2337.4 -28.92 83.24
 100.00 1 27 5 3860.43 -2.58 148.45 325.32 60.21 2 31 25 3260.4 -6.52 141.88
 110.00 8 0 0 2585.94 -33.25 66.28 336.32 81.57 8 43 6 1985.9 -34.06 57.13
 110.00 1 51 15 3784.63 2.36 139.63 322.24 55.89 2 54 19 3184.6 -2.13 133.43

DIFFERENTIAL CORRECTIONS
 TDE -.0329 TRA 4.6569 TC3-2.6408 BAU 1.1723
 RDE .3768 RRA .2925 RC3 -.0651 FAU .01534
 FDE -.1243 FRA 1.5363 FC3 -.4001 BSP 19611
 BDE .3783 BRA 4.6661 BC3 2.6416 FSP -523

MID-COURSE EXECUTION ACCURACY
 SGT 5953.5 SGR 499.4 SG3 151.6
 RRT .6259 RRF .6060 RTF .9618
 SGB 5974.4 R23 .0019 R13 .9618
 SG1 5961.7 SG2 388.9 THA 3.02

ORBIT DETERMINATION ACCURACY
 ST 1538.1 SR 387.0 SS 442.4
 CRT .2284 CRS -.0126 CST -.9758
 LSA 1600.0 MSA 388.6 SSA 13.7
 EL1 1540.8 EL2 376.1 ALF 3.50

LAUNCH DATE FEB 9 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 591.276

RL 147.60 LAL .00 LOL 140.07 VL 26.395 GAL 10.31 AZL 89.80 MCA 293.22 SMA 120.48 ECC .28480 INC .2004 V1 30.185
 RP 107.81 LAP -.18 LOP 73.29 VP 36.884 GAP 15.44 AZP 89.92 TAL 151.37 TAP 84.59 RCA 86.17 APO 154.79 V2 35.150
 RC 189.959 GL .85 GP -11.57 ZAL 43.64 ZAP 168.26 ETS 283.20 ZAE 129.21 ETE 189.52 ZAC 169.77 ETC 167.35 CLP-178.03

PLANETOCENTRIC CONIC

C3 37.316 VHL 6.109 DLA 24.14 RAL 97.06 RAD 6568.5 VEL 12.597 PTH 2.28 VHP 10.232 DPA 11.14 RAP 75.98 ECC 1.6141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 54 3243.58 -25.47 113.78 338.67 77.19 5 42 57 2643.6 -26.98 105.44
 90.00 0 19 46 4138.09 -1.96 168.53 329.68 61.75 1 28 44 3538.1 -5.72 161.87
 100.00 6 30 23 2916.36 -27.82 90.27 339.23 78.59 7 18 59 2316.4 -29.11 81.71
 100.00 1 20 58 3940.54 .14 152.84 328.52 60.11 2 26 39 3340.5 -3.84 146.32
 110.00 8 18 15 2578.88 -33.32 65.74 340.33 81.88 9 1 14 1978.9 -34.08 56.58
 110.00 1 49 35 3850.78 4.88 143.09 325.57 56.13 2 53 46 3250.8 .40 136.88

DIFFERENTIAL CORRECTIONS

TOE -.1946 TRA 5.0946 TC3-2.3139 BAU 1.1547
 RDE .3852 RRA .3105 RC3 -.0545 FAU .01358
 FDE -.1622 FRA 1.5950 FC3 -.3151 BSP 19574
 BOE .4316 BRA 5.1041 BC3 2.3145 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 5953.5 SGR 486.6 SG3 146.1
 RRT .6190 RRF .6002 RTF .9636
 SGB 5973.3 R23 .0015 R13 .9637
 SG1 5961.1 SG2 381.7 THA 2.91

ORBIT DETERMINATION ACCURACY

ST 1583.7 SR 373.8 SS 455.2
 CRT .1430 CRS .0409 CST -.9826
 LSA 1646.6 MSA 379.1 SSA 13.1
 EL1 1584.7 EL2 369.7 ALF 2.04

LAUNCH DATE FEB 9 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 596.124

RL 147.60 LAL .00 LOL 140.07 VL 26.361 GAL 11.25 AZL 90.01 MCA 296.45 SMA 120.28 ECC .29614 INC .0000 V1 30.185
 RP 107.78 LAP .01 LOP 76.52 VP 36.870 GAP 16.19 AZP 90.00 TAL 150.04 TAP 86.49 RCA 84.66 APO 155.90 V2 35.161
 RC 191.786 GL -.03 GP -11.33 ZAL 41.82 ZAP 168.63 ETS 278.60 ZAE 129.12 ETE 189.31 ZAC 171.80 ETC 161.94 CLP-178.99

PLANETOCENTRIC CONIC

C3 42.152 VHL 6.492 DLA 23.16 RAL 98.98 RAD 6568.6 VEL 12.787 PTH 2.33 VHP 10.683 DPA 11.72 RAP 78.19 ECC 1.6937
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 11 27 3222.11 -25.78 112.29 342.74 77.87 6 5 9 2622.1 -27.20 103.91
 90.00 0 12 33 4221.10 .72 173.16 332.85 61.69 1 22 55 3621.1 -3.07 166.53
 100.00 6 50 36 2902.43 -28.00 89.28 343.24 79.08 7 38 58 2302.4 -29.22 80.69
 100.00 1 16 6 4016.01 2.70 156.99 331.75 60.22 2 23 2 3416.0 -1.29 150.47
 110.00 8 34 55 2576.06 -33.35 65.52 344.28 82.01 9 17 51 1976.1 -34.09 56.36
 110.00 1 48 16 3915.15 7.31 146.49 328.90 56.51 2 53 31 3315.1 2.86 140.24

DIFFERENTIAL CORRECTIONS

TOE -.3665 TRA 5.5569 TC3-2.0121 BAU 1.1341
 RDE .3938 RRA .3277 RC3 -.0451 FAU .01195
 FDE -.1997 FRA 1.6548 FC3 -.2453 BSP 19643
 BOE .5380 BRA 5.5666 BC3 2.0126 FSP -484

MID-COURSE EXECUTION ACCURACY

SGT 5948.0 SGR 472.4 SG3 140.8
 RRT .6116 RRF .5937 RTF .9658
 SGB 5966.7 R23 .0009 R13 .9658
 SG1 5955.0 SG2 373.3 THA 2.79

ORBIT DETERMINATION ACCURACY

ST 1634.3 SR 360.1 SS 469.0
 CRT .0658 CRS .0890 CST -.9876
 LSA 1699.0 MSA 366.2 SSA 12.5
 EL1 1634.5 EL2 359.3 ALF .87

LAUNCH DATE FEB 9 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 600.799

RL 147.60 LAL .00 LOL 140.07 VL 26.327 GAL 12.26 AZL 90.23 MCA 299.67 SMA 120.09 ECC .30864 INC .2277 V1 30.185
 RP 107.75 LAP .20 LOP 79.74 VP 36.856 GAP 17.01 AZP 90.11 TAL 148.77 TAP 88.44 RCA 83.02 APO 157.15 V2 35.172
 RC 193.588 GL -.85 GP -11.10 ZAL 40.13 ZAP 168.90 ETS 273.62 ZAE 129.01 ETE 189.10 ZAC 173.69 ETC 153.18 CLP-179.97

PLANETOCENTRIC CONIC

C3 47.842 VHL 6.917 DLA 22.22 RAL 100.75 RAD 6568.8 VEL 13.008 PTH 2.37 VHP 11.178 DPA 12.24 RAP 80.39 ECC 1.7874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 21 3208.21 -25.98 111.32 346.70 78.32 6 24 50 2608.2 -27.33 102.91
 90.00 0 6 46 4298.66 3.22 177.49 336.06 61.85 1 18 25 3698.7 -.57 170.86
 100.00 7 8 43 2894.27 -28.10 88.69 347.17 79.37 7 56 58 2294.3 -29.28 80.09
 100.00 1 12 6 4087.83 5.12 160.95 335.01 60.51 2 20 14 3487.8 1.15 154.41
 110.00 8 50 8 2577.01 -33.34 65.60 348.17 81.96 9 33 5 1977.0 -34.09 56.44
 110.00 1 47 11 3977.86 9.65 149.84 332.24 57.05 2 53 28 3377.9 5.24 143.52

DIFFERENTIAL CORRECTIONS

TOE -.5447 TRA 6.0516 TC3-1.7305 BAU 1.1071
 RDE .4029 RRA .3442 RC3 -.0365 FAU .01033
 FDE -.2355 FRA 1.7183 FC3 -.1869 BSP 19702
 BOE .6775 BRA 6.0614 BC3 1.7309 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 5937.9 SGR 456.9 SG3 135.8
 RRT .6037 RRF .5871 RTF .9682
 SGB 5955.5 R23 .0005 R13 .9682
 SG1 5944.3 SG2 363.8 THA 2.67

ORBIT DETERMINATION ACCURACY

ST 1687.6 SR 346.3 SS 483.7
 CRT -.0006 CRS .1295 CST -.9913
 LSA 1754.5 MSA 351.4 SSA 12.0
 EL1 1687.6 EL2 346.3 ALF 179.99

LAUNCH DATE FEB 9 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 605.263

RL 147.60 LAL .00 LOL 140.07 VL 26.294 GAL 13.37 AZL 90.46 MCA 302.90 SMA 119.90 ECC .32246 INC .4629 V1 30.185
 RP 107.71 LAP .39 LOP 82.97 VP 36.842 GAP 17.92 AZP 90.25 TAL 147.57 TAP 90.46 RCA 81.24 APO 158.56 V2 35.182
 RC 195.366 GL -1.60 GP -10.89 ZAL 38.58 ZAP 169.06 ETS 268.29 ZAE 128.85 ETE 188.91 ZAC 175.31 ETC 137.90 CLP 179.03

PLANETOCENTRIC CONIC

C3 54.565 VHL 7.387 DLA 21.35 RAL 102.37 RAD 6569.0 VEL 13.264 PTH 2.42 VHP 11.723 DPA 12.71 RAP 82.59 ECC 1.8980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 5 3200.33 -26.09 110.77 350.56 78.58 6 42 25 2600.3 -27.40 102.35
 90.00 0 1 59 4371.94 5.56 181.60 339.27 62.19 1 14 51 3771.9 1.80 174.94
 100.00 7 25 2 2890.93 -28.15 88.45 351.00 79.49 8 13 13 2290.9 -29.31 79.84
 100.00 1 8 43 4156.56 7.40 164.77 338.27 60.96 2 18 0 3556.6 3.48 158.18
 110.00 9 4 0 2581.30 -33.30 65.92 351.99 81.77 9 47 1 1981.3 -34.07 56.77
 110.00 1 46 14 4038.96 11.90 153.15 335.57 57.71 2 53 33 3439.0 7.55 146.75

DIFFERENTIAL CORRECTIONS

TOE -.7303 TRA 6.5839 TC3-1.4699 BAU 1.0725
 RDE .4125 RRA .3595 RC3 -.0286 FAU .00871
 FDE -.2696 FRA 1.7864 FC3 -.1382 BSP 19733
 BOE .8387 BRA 6.5937 BC3 1.4702 FSP -451

MID-COURSE EXECUTION ACCURACY

SGT 5924.5 SGR 440.2 SG3 131.0
 RRT .5950 RRF .5800 RTF .9707
 SGB 5940.8 R23 .0004 R13 .9707
 SG1 5930.3 SG2 353.5 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 1740.9 SR 332.3 SS 499.3
 CRT -.0578 CRS .1638 CST -.9940
 LSA 1810.4 MSA 335.5 SSA 11.5
 EL1 1741.0 EL2 331.8 ALF 179.34

LAUNCH DATE FEB 9 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.262 GAL 14.57 AZL 90.72 MCA 306.13 SMA 119.72 ECC .33779 INC .7158 V1 30.185
 RP 107.68 LAP .58 LOP 86.20 VP 36.828 GAP 18.91 AZP 90.42 TAL 146.44 TAP 92.56 RCA 79.28 APO 160.16 V2 35.192
 RC 197.118 GL -2.30 GP -10.70 ZAL 37.17 ZAP 169.11 ETS 262.68 ZAE 128.66 ETE 188.71 ZAC 176.29 ETC 111.66 CLP 177.98

PLANETOCENTRIC CONIC
 C3 62.545 VHL 7.909 DLA 20.52 RAL 103.84 RAD 6569.2 VEL 13.561 PTH 2.48 VHP 12.327 DPA 13.13 RAP 84.76 ECC 2.0293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 54 3197.37 -26.13 110.56 354.30 78.67 6 58 12 2597.4 -27.43 102.13
 90.00 23 53 59 4441.61 7.76 185.54 342.49 62.68 25 8 0 3841.6 4.03 178.84
 100.00 7 39 42 2891.69 -28.14 88.51 354.74 79.46 8 27 54 2291.7 -29.30 79.90
 100.00 1 5 48 4222.52 9.57 168.47 341.52 61.54 2 16 10 3622.5 5.69 161.82
 110.00 9 16 36 2588.53 -33.22 66.48 355.73 81.46 9 59 45 1988.5 -34.05 57.33
 110.00 1 45 23 4098.44 14.04 156.43 338.88 58.51 2 53 42 3498.4 9.77 149.93

DIFFERENTIAL CORRECTIONS
 TDE -.9224 TRA 7.1565 TC3 -1.2295 BAU 1.0283
 RDE .4228 RRA .3732 RC3 -.0215 FAU .00707
 FDE -.3028 FRA 1.8602 FC3 -.0979 BSP 19728
 BDE 1.0147 BRA 7.1662 BC3 1.2297 FSP -435

MID-COURSE EXECUTION ACCURACY
 SGT 5905.6 SGR 422.3 SG3 126.5
 RRT .5853 RRF .5719 RTF .9733
 SGB 5920.7 R23 .0003 R13 .9733
 SGI 5910.8 SG2 342.1 THA 2.40

ORBIT DETERMINATION ACCURACY
 ST 1791.2 SR 318.3 SS 515.8
 CRT -.1066 CRS .1933 CST -.9959
 LSA 1863.8 MSA 319.2 SSA 10.9
 EL1 1791.5 EL2 316.4 ALF 178.88

LAUNCH DATE FEB 9 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.231 GAL 15.89 AZL 90.99 MCA 309.35 SMA 119.54 ECC .35487 INC .9907 V1 30.185
 RP 107.66 LAP .77 LOP 89.43 VP 36.815 GAP 20.02 AZP 90.63 TAL 145.40 TAP 94.76 RCA 77.12 APO 161.96 V2 35.201
 RC 198.846 GL -2.95 GP -10.52 ZAL 35.90 ZAP 169.03 ETS 256.87 ZAE 128.42 ETE 188.52 ZAC 176.18 ETC 79.38 CLP 176.90

PLANETOCENTRIC CONIC
 C3 72.067 VHL 8.489 DLA 19.75 RAL 105.17 RAD 6569.4 VEL 13.907 PTH 2.54 VHP 12.999 DPA 13.49 RAP 86.91 ECC 2.1860
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 3 3198.53 -26.11 110.64 357.94 78.63 7 12 21 2598.5 -27.42 102.22
 90.00 23 50 25 4508.03 9.81 189.34 345.67 63.30 25 5 33 3908.0 6.15 182.57
 100.00 7 52 53 2895.93 -28.08 88.81 358.37 79.31 8 41 9 2295.9 -29.27 80.21
 100.00 1 3 12 4285.87 11.60 172.08 344.73 62.26 2 14 38 3685.9 7.79 165.35
 110.00 9 28 0 2598.34 -33.12 67.22 359.38 81.02 10 11 19 1998.3 -34.01 58.10
 110.00 1 44 34 4156.22 16.06 159.68 342.17 59.41 2 53 50 3556.2 11.89 153.06

DIFFERENTIAL CORRECTIONS
 TDE -1.1208 TRA 7.7790 TC3 -1.0080 BAU .9713
 RDE .4339 RRA .3849 RC3 -.0151 FAU .00535
 FDE -.3344 FRA 1.9415 FC3 -.0642 BSP 19642
 BDE 1.2018 BRA 7.7885 BC3 1.0081 FSP -418

MID-COURSE EXECUTION ACCURACY
 SGT 5883.8 SGR 403.2 SG3 122.2
 RRT .5741 RRF .5627 RTF .9760
 SGB 5897.6 R23 .0007 R13 .9760
 SGI 5888.4 SG2 329.9 THA 2.26

ORBIT DETERMINATION ACCURACY
 ST 1837.2 SR 304.3 SS 533.2
 CRT -.1483 CRS .2181 CST -.9973
 LSA 1913.3 MSA 302.8 SSA 10.4
 EL1 1837.8 EL2 300.9 ALF 178.55

LAUNCH DATE FEB 9 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.201 GAL 17.34 AZL 91.29 MCA 312.58 SMA 119.37 ECC .37395 INC 1.2924 V1 30.185
 RP 107.63 LAP .95 LOP 92.66 VP 36.802 GAP 21.26 AZP 90.87 TAL 144.48 TAP 97.07 RCA 74.73 APO 164.01 V2 35.209
 RC 200.549 GL -3.54 GP -10.36 ZAL 34.77 ZAP 168.82 ETS 250.96 ZAE 128.13 ETE 188.32 ZAC 175.12 ETC 56.04 CLP 175.76

PLANETOCENTRIC CONIC
 C3 83.501 VHL 9.138 DLA 19.03 RAL 106.35 RAD 6569.6 VEL 14.313 PTH 2.60 VHP 13.751 DPA 13.81 RAP 89.02 ECC 2.3742
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 38 3203.14 -26.05 110.96 348.80 78.48 7 25 1 2603.1 -27.38 102.55
 90.00 23 47 14 4571.37 11.72 193.01 348.80 64.04 25 3 25 3971.4 8.14 186.17
 100.00 8 4 40 2903.14 -27.99 89.33 348.80 79.06 8 53 3 2303.1 -29.22 80.74
 100.00 1 0 49 4346.60 13.50 175.58 347.90 63.07 2 13 15 3746.6 9.78 168.77
 110.00 9 38 15 2610.37 -32.99 68.14 347.90 80.50 10 21 45 2010.4 -33.95 59.03
 110.00 1 43 43 4212.14 17.97 162.89 345.40 60.42 2 53 55 3612.1 13.90 156.15

DIFFERENTIAL CORRECTIONS
 TDE -1.3334 TRA 8.4504 TC3 -.8087 BAU .9029
 RDE .4456 RRA .3934 RC3 -.0098 FAU .00360
 FDE -.3671 FRA 2.0298 FC3 -.0373 BSP 19647
 BDE 1.4059 BRA 8.4596 BC3 .8088 FSP -404

MID-COURSE EXECUTION ACCURACY
 SGT 5856.5 SGR 382.7 SG3 118.2
 RRT .5600 RRF .5506 RTF .9788
 SGB 5869.0 R23 .0010 R13 .9788
 SGI 5860.4 SG2 316.9 THA 2.10

ORBIT DETERMINATION ACCURACY
 ST 1878.4 SR 290.2 SS 552.3
 CRT -.1871 CRS .2424 CST -.9982
 LSA 1958.4 MSA 286.3 SSA 9.9
 EL1 1879.2 EL2 284.9 ALF 178.31

LAUNCH DATE FEB 9 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC
 RL 147.60 LAL .00 LOL 140.07 VL 26.172 GAL 18.96 AZL 91.63 MCA 315.82 SMA 119.21 ECC .39537 INC 1.6272 V1 30.185
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.789 GAP 22.64 AZP 91.17 TAL 143.69 TAP 99.51 RCA 72.08 APO 166.34 V2 35.217
 RC 202.227 GL -4.09 GP -10.20 ZAL 33.79 ZAP 168.45 ETS 245.06 ZAE 127.76 ETE 188.11 ZAC 173.60 ETC 42.82 CLP 174.56

PLANETOCENTRIC CONIC
 C3 97.331 VHL 9.866 DLA 18.37 RAL 107.37 RAD 6569.9 VEL 14.788 PTH 2.67 VHP 14.597 DPA 14.08 RAP 91.07 ECC 2.6018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 44 3210.64 -25.95 111.49 348.80 78.24 7 36 15 2610.6 -27.31 103.09
 90.00 23 44 16 4631.63 13.49 196.55 351.86 64.87 25 1 28 4031.6 10.00 189.62
 100.00 8 15 5 2912.85 -27.86 90.02 351.86 78.71 9 3 38 2312.9 -29.14 81.45
 100.00 0 58 33 4404.65 15.26 178.99 350.98 63.98 2 11 57 3804.7 11.64 172.08
 110.00 9 47 19 2624.26 -32.83 69.19 350.98 79.89 10 31 4 2024.3 -33.88 60.11
 110.00 1 42 48 4266.01 19.75 166.05 348.56 61.52 2 53 54 3666.0 15.80 159.17

DIFFERENTIAL CORRECTIONS
 TDE -1.5564 TRA 9.1828 TC3 -.6280 BAU .8171
 RDE .4584 RRA .3981 RC3 -.0052 FAU .00172
 FDE -.3999 FRA 2.1281 FC3 -.0153 BSP 19620
 BDE 1.6226 BRA 9.1914 BC3 .6280 FSP -390

MID-COURSE EXECUTION ACCURACY
 SGT 5824.9 SGR 361.0 SG3 114.3
 RRT .5426 RRF .5353 RTF .9816
 SGB 5836.0 R23 .0015 R13 .9816
 SGI 5828.2 SG2 303.1 THA 1.93

ORBIT DETERMINATION ACCURACY
 ST 1913.2 SR 276.1 SS 573.2
 CRT -.2224 CRS .2652 CST -.9989
 LSA 1998.0 MSA 269.9 SSA 9.4
 EL1 1914.2 EL2 269.0 ALF 178.12

LAUNCH DATE FEB 10 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 21 1969

HELIOCENTRIC CONIC

DISTANCE 177.504

RL 147.63 LAL .00 LOL 141.08 VL 25.758 GAL -4.69 AZL 87.86 MCA 77.41 SMA 116.99 ECC .27360 INC 2.1385 V1 30.179
 RP 108.17 LAP 2.09 LOP 218.49 VP 36.323 GAP -15.29 AZP 89.53 TAL 192.70 TAP 270.11 RCA 84.98 APO 148.99 V2 35.033
 RC 45.818 GL 10.58 GP 11.07 ZAL 117.60 ZAP 11.07 ETS 271.23 ZAE 153.69 ETE 7.09 ZAC 127.27 ETC 155.11 CLP .29

PLANETOCENTRIC CONIC

C3 27.228 VHL 5.218 DLA 18.72 RAL 17.12 RAD 6568.1 VEL 12.190 PTH 2.19 VHP 10.004 DPA 22.74 RAP 32.75 ECC 1.4481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 4 2915.19 -28.28 90.25 251.11 88.59 1 23 39 2315.2 -28.18 81.58
 90.00 17 44 5 4308.06 3.52 178.01 242.66 61.88 18 55 53 3708.1 -.27 171.38
 100.00 2 7 46 2616.24 -29.89 68.28 251.13 89.93 2 51 22 2016.2 -29.58 59.49
 100.00 18 54 3 4082.24 4.93 160.64 241.88 60.48 20 2 5 3482.2 .96 154.10
 110.00 3 40 43 2325.44 -34.03 46.05 250.99 93.48 4 19 28 1725.4 -33.17 36.91
 110.00 19 37 36 3945.81 8.46 148.12 239.71 56.76 20 43 22 3345.8 4.03 141.84

DIFFERENTIAL CORRECTIONS

TOE -.2587 TRA -.4597 TC3 .4195 BAU .1547
 RDE -.3686 RRA .1246 RC3 .0684 FAU .02950
 FDE .1447 FRA .0587 FC3 -.9381 BSP 2296
 BOE .4503 BRA .4763 BC3 .4250 FSP -207

MID-COURSE EXECUTION ACCURACY

SGT 745.9 SGR 435.6 SG3 85.9
 RRT .2131 RRF -.2872 RTF -.6877
 SGB 863.8 R23 -.0735 R13 -.6988
 SG1 754.3 SG2 420.8 THA 10.35

ORBIT DETERMINATION ACCURACY

ST 326.2 SR 407.0 SS 140.7
 CRT .8138 CRS .9576 CST .9182
 LSA 517.1 MSA 154.9 SSA 21.8
 EL1 498.1 EL2 154.9 ALF 52.66

LAUNCH DATE FEB 10 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 184.253

RL 147.63 LAL .00 LOL 141.08 VL 26.010 GAL -4.72 AZL 88.04 MCA 80.61 SMA 118.35 ECC .25998 INC 1.9604 V1 30.179
 RP 108.21 LAP 1.93 LOP 221.69 VP 36.490 GAP -14.26 AZP 89.68 TAL 193.75 TAP 274.36 RCA 87.58 APO 149.12 V2 35.020
 RC 46.944 GL 10.21 GP 11.74 ZAL 119.36 ZAP 11.88 ETS 281.65 ZAE 151.85 ETE 8.75 ZAC 127.90 ETC 154.09 CLP -1.82

PLANETOCENTRIC CONIC

C3 25.047 VHL 5.005 DLA 17.71 RAL 15.60 RAD 6568.0 VEL 12.101 PTH 2.17 VHP 9.429 DPA 23.77 RAP 33.55 ECC 1.4122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 29 2854.85 -28.31 85.83 247.56 90.80 1 27 4 2254.9 -27.89 77.19
 90.00 17 27 29 4327.06 4.13 179.08 239.64 61.96 18 39 36 3727.1 .35 172.44
 100.00 2 11 12 2559.10 -29.82 64.03 247.51 92.16 2 53 51 1959.1 -29.20 55.28
 100.00 18 38 27 4098.04 5.46 161.51 238.91 60.56 19 46 45 3498.0 1.50 154.97
 110.00 3 42 11 2274.45 -33.75 42.09 247.19 95.80 4 20 5 1674.5 -32.58 33.05
 110.00 19 23 58 3955.45 8.82 148.64 236.85 56.84 20 29 53 3355.5 4.39 142.35

DIFFERENTIAL CORRECTIONS

TDE -.2745 TRA -.4244 TC3 .4772 BAU .1629
 RDE -.3543 RRA .1248 RC3 .0943 FAU .03184
 FDE .1356 FRA .0359 FC3 -1.1005 BSP 2218
 BOE .4482 BRA .4424 BC3 .4864 FSP -237

MID-COURSE EXECUTION ACCURACY

SGT 766.1 SGR 442.6 SG3 96.2
 RRT .2832 RRF -.3257 RTF -.6998
 SGB 884.8 R23 -.0458 R13 -.7109
 SG1 780.6 SG2 416.7 THA 13.08

ORBIT DETERMINATION ACCURACY

ST 349.8 SR 408.1 SS 129.8
 CRT .8449 CRS .9614 CST .9198
 LSA 532.3 MSA 147.8 SSA 23.7
 EL1 516.8 EL2 147.8 ALF 50.19

LAUNCH DATE FEB 10 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 191.003

RL 147.63 LAL .00 LOL 141.08 VL 26.239 GAL -4.77 AZL 88.21 MCA 83.81 SMA 119.63 ECC .24767 INC 1.7858 V1 30.179
 RP 108.25 LAP 1.78 LOP 224.89 VP 36.640 GAP -13.28 AZP 89.81 TAL 194.85 TAP 278.66 RCA 90.00 APO 149.25 V2 35.007
 RC 48.205 GL 9.74 GP 12.48 ZAL 121.16 ZAP 13.09 ETS 290.68 ZAE 150.19 ETE 10.42 ZAC 128.43 ETC 153.02 CLP -3.98

PLANETOCENTRIC CONIC

C3 23.214 VHL 4.818 DLA 16.59 RAL 14.09 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 8.886 DPA 24.84 RAP 34.28 ECC 1.3820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 34 2793.93 -28.17 81.38 244.12 93.03 1 31 8 2193.9 -27.45 72.79
 90.00 17 10 24 4350.71 4.88 180.41 236.79 62.07 18 22 55 3750.7 1.11 175.76
 100.00 2 15 17 2501.37 -29.60 59.76 244.02 94.40 2 56 58 1901.4 -28.67 51.07
 100.00 18 22 22 4118.51 6.14 162.65 236.10 60.69 19 31 0 3518.5 2.19 156.09
 110.00 3 44 16 2222.97 -33.32 38.13 243.54 98.11 4 21 19 1623.0 -31.84 29.22
 110.00 19 9 53 3969.67 9.35 149.40 234.14 56.97 20 16 2 3369.7 4.93 143.09

DIFFERENTIAL CORRECTIONS

TDE -.2653 TRA -.4011 TC3 .5481 BAU .1745
 RDE -.3407 RRA .1260 RC3 .1255 FAU .03447
 FDE .1224 FRA .0098 FC3 -1.2855 BSP 2333
 BOE .4318 BRA .4204 BC3 .5623 FSP -271

MID-COURSE EXECUTION ACCURACY

SGT 791.3 SGR 450.8 SG3 107.8
 RRT .3192 RRF -.3679 RTF -.7155
 SGB 910.7 R23 -.0536 R13 -.7285
 SG1 809.3 SG2 417.8 THA 14.15

ORBIT DETERMINATION ACCURACY

ST 349.4 SR 407.9 SS 115.3
 CRT .8482 CRS .9616 CST .8962
 LSA 528.8 MSA 146.3 SSA 25.7
 EL1 516.8 EL2 146.1 ALF 50.19

LAUNCH DATE FEB 10 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 197.749

RL 147.63 LAL .00 LOL 141.08 VL 26.447 GAL -4.82 AZL 88.39 MCA 87.01 SMA 120.82 ECC .23659 INC 1.6134 V1 30.179
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.777 GAP -12.35 AZP 89.92 TAL 195.98 TAP 282.99 RCA 92.23 APO 149.40 V2 34.994
 RC 49.590 GL 9.17 GP 13.30 ZAL 122.97 ZAP 14.65 ETS 298.18 ZAE 148.72 ETE 12.11 ZAC 128.83 ETC 151.90 CLP -6.21

PLANETOCENTRIC CONIC

C3 21.675 VHL 4.656 DLA 15.38 RAL 12.63 RAD 6567.9 VEL 11.961 PTH 2.13 VHP 8.372 DPA 25.95 RAP 34.90 ECC 1.3567
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 50 14 2732.89 -27.87 76.94 240.85 95.24 1 35 47 2132.9 -26.85 68.42
 90.00 16 53 6 4378.48 5.77 181.97 234.13 62.23 18 6 4 3778.5 2.01 175.31
 100.00 2 19 59 2443.45 -29.22 55.49 240.69 96.62 3 0 42 1843.4 -27.99 46.90
 100.00 18 6 2 4143.16 6.96 164.02 233.48 60.86 19 15 5 3543.2 3.02 157.44
 110.00 3 46 57 2171.32 -32.76 34.21 240.07 100.36 4 23 9 1571.3 -30.98 25.44
 110.00 18 55 33 3988.05 10.03 150.39 231.61 57.15 20 2 1 3388.0 5.63 144.06

DIFFERENTIAL CORRECTIONS

TOE -.2545 TRA -.3785 TC3 .6202 BAU .1858
 RDE -.3276 RRA .1280 RC3 .1627 FAU .03741
 FDE .1048 FRA .0197 FC3 -1.4942 BSP 2442
 BOE .4148 BRA .3996 BC3 .6412 FSP -309

MID-COURSE EXECUTION ACCURACY

SGT 815.5 SGR 460.6 SG3 120.7
 RRT .3589 RRF -.4147 RTF -.7298
 SGB 936.6 R23 -.0627 R13 -.7453
 SG1 837.9 SG2 418.4 THA 15.39

ORBIT DETERMINATION ACCURACY

ST 345.5 SR 406.1 SS 98.2
 CRT .8497 CRS .9531 CST .8531
 LSA 521.8 MSA 144.8 SSA 28.0
 EL1 513.4 EL2 144.2 ALF 50.40

LAUNCH DATE FEB 10 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 29 1969

DISTANCE 204.489

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 26.634 GAL -4.88 AZL 88.56 HCA 90.20 SMA 121.92 ECC .22666 INC 1.4421 V1 30.179
 RP 108.33 LAP 1.44 LOP 231.28 VP 36.899 GAP -11.46 AZP 90.01 TAL 197.15 TAP 287.35 RCA 94.29 APO 149.56 V2 34.980
 RC 51.091 GL 8.51 GP 14.20 ZAL 124.78 ZAP 16.52 ETS 304.30 ZAE 147.43 ETE 13.89 ZAC 129.10 ETC 150.73 CLP -8.52

PLANETOCENTRIC CONIC
 C3 20.387 VHL 4.515 DLA 14.08 RAL 11.24 RAD 6567.8 VEL 11.907 PTH 2.12 VHP 7.888 DPA 27.12 RAP 35.41 ECC 1.3355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 56 28 2672.11 -27.41 72.55 237.77 97.39 1 41 0 2072.1 -26.10 64.13
 90.00 16 35 47 4409.82 6.76 183.74 231.69 62.44 17 49 17 3809.8 3.01 177.06
 100.00 2 25 17 2385.70 -28.69 51.28 237.56 98.77 3 5 2 1785.7 -27.18 42.80
 100.00 17 49 40 4171.47 7.90 165.60 231.07 61.08 18 59 11 3571.5 3.98 159.00
 110.00 3 50 15 2119.79 -32.06 30.35 236.83 102.55 4 25 35 1519.8 -30.00 21.75
 110.00 18 41 10 4010.14 10.84 151.58 229.29 57.38 19 48 0 3410.1 6.47 145.23

MID-COURSE EXECUTION ACCURACY
 SGT 837.5 SGR 472.6 SG3 135.3
 RRT .4016 RRF -.4653 RTF -.7424
 SGB 961.7 R23 -.0733 R13 -.7610
 SG1 865.7 SG2 418.7 THA 16.81

ORBIT DETERMINATION ACCURACY
 ST 337.9 SR 402.4 SS 78.8
 CRT .8487 CRS .9175 CST .7624
 LSA 510.7 MSA 143.4 SSA 30.7
 EL1 505.8 EL2 142.1 ALF 50.85

DIFFERENTIAL CORRECTIONS
 TOE -.2419 TRA -.3567 TC3 .6911 BAW .1966
 ROE -.3145 RRA .1309 RC3 .2066 FAU .04071
 FOE .0816 FRA -.0528 FC3-1.7287 BSP 2550
 BOE .3967 BRA .3800 BC3 .7213 FSP -352

LAUNCH DATE FEB 10 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 1 1969

DISTANCE 211.219

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 26.803 GAL -4.93 AZL 88.73 HCA 93.39 SMA 122.94 ECC .21779 INC 1.2708 V1 30.179
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.009 GAP -10.61 AZP 90.08 TAL 198.33 TAP 291.72 RCA 96.17 APO 149.72 V2 34.967
 RC 52.697 GL 7.75 GP 15.21 ZAL 126.55 ZAP 18.65 ETS 309.24 ZAE 146.33 ETE 15.77 ZAC 129.20 ETC 149.54 CLP -10.91

PLANETOCENTRIC CONIC
 C3 19.309 VHL 4.594 DLA 12.71 RAL 9.95 RAD 6567.8 VEL 11.861 PTH 2.10 VHP 7.433 DPA 28.35 RAP 35.79 ECC 1.3178
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 3 14 2611.89 -26.81 68.25 234.91 99.47 1 46 46 2011.9 -25.23 59.94
 90.00 16 18 39 4444.23 7.84 185.69 229.49 62.70 17 32 43 3844.2 4.12 178.99
 100.00 2 31 8 2328.41 -28.03 47.15 234.67 100.85 3 9 57 1728.4 -26.24 38.80
 100.00 17 33 26 4202.95 8.93 167.37 228.90 61.35 18 43 29 3602.9 5.04 160.74
 110.00 3 54 10 2068.63 -31.24 26.59 233.83 104.64 4 28 38 1468.6 -28.92 18.16
 110.00 18 26 54 4035.50 11.77 152.96 227.20 57.67 19 34 10 3435.5 7.42 146.57

MID-COURSE EXECUTION ACCURACY
 SGT 857.2 SGR 487.8 SG3 151.6
 RRT .4470 RRF -.5195 RTF -.7533
 SGB 986.3 R23 -.0852 R13 -.7759
 SG1 892.9 SG2 418.9 THA 18.48

ORBIT DETERMINATION ACCURACY
 ST 326.7 SR 396.4 SS 59.7
 CRT .8452 CRS .7840 CST .5364
 LSA 496.0 MSA 142.2 SSA 33.6
 EL1 494.2 EL2 140.0 ALF 51.48

DIFFERENTIAL CORRECTIONS
 TOE -.2277 TRA -.3358 TC3 .7591 BAW .2070
 ROE -.3011 RRA .1348 RC3 .2579 FAU .04439
 FOE .0519 FRA -.0901 FC3-1.9902 BSP 2655
 BOE .3775 BRA .3619 BC3 .8017 FSP -402

LAUNCH DATE FEB 10 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 3 1969

DISTANCE 217.934

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 26.955 GAL -4.99 AZL 88.90 HCA 96.58 SMA 123.88 ECC .20991 INC 1.0986 V1 30.179
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.107 GAP -9.79 AZP 90.13 TAL 199.50 TAP 296.08 RCA 97.87 APO 149.88 V2 34.954
 RC 54.398 GL 6.89 GP 16.33 ZAL 128.26 ZAP 21.02 ETS 313.27 ZAE 145.41 ETE 17.82 ZAC 129.13 ETC 148.32 CLP -13.41

PLANETOCENTRIC CONIC
 C3 18.410 VHL 4.291 DLA 11.28 RAL 8.76 RAD 6567.7 VEL 11.823 PTH 2.09 VHP 7.006 DPA 29.64 RAP 36.01 ECC 1.3030
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 10 33 2552.41 -26.08 64.05 232.30 101.45 1 53 6 1952.4 -24.23 55.86
 90.00 16 1 51 4481.27 8.99 187.80 227.54 63.03 17 16 32 3881.3 5.30 181.07
 100.00 2 37 34 2271.76 -27.23 43.13 232.02 102.82 3 15 26 1671.8 -25.20 34.92
 100.00 17 17 31 4237.15 10.04 169.30 226.99 61.70 18 28 8 3637.1 6.18 162.64
 110.00 3 58 40 2017.99 -30.31 22.94 231.09 106.61 4 32 18 1418.0 -27.74 14.69
 110.00 18 12 54 4063.69 12.79 154.51 225.36 58.03 19 20 38 3463.7 8.47 148.07

MID-COURSE EXECUTION ACCURACY
 SGT 874.3 SGR 507.3 SG3 169.9
 RRT .4941 RRF -.5763 RTF -.7650
 SGB 1010.8 R23 -.0970 R13 -.7924
 SG1 919.8 SG2 419.3 THA 20.42

ORBIT DETERMINATION ACCURACY
 ST 309.6 SR 387.5 SS 49.5
 CRT .8373 CRS .3321 CST -.0229
 LSA 476.6 MSA 141.2 SSA 37.0
 EL1 476.5 EL2 137.7 ALF 52.56

DIFFERENTIAL CORRECTIONS
 TOE -.2103 TRA -.3147 TC3 .8256 BAW .2177
 ROE -.2869 RRA .1398 RC3 .3176 FAU .04854
 FOE .0136 FRA -.1321 FC3-2.2824 BSP 2793
 BOE .3558 BRA .3444 BC3 .8846 FSP -459

LAUNCH DATE FEB 10 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 5 1969

DISTANCE 224.633

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.091 GAL -5.05 AZL 89.08 HCA 99.77 SMA 124.73 ECC .20294 INC .9242 V1 30.179
 RP 108.45 LAP .91 LOP 240.85 VP 37.194 GAP -9.02 AZP 90.16 TAL 200.65 TAP 300.41 RCA 99.42 APO 150.05 V2 34.942
 RC 56.186 GL 5.95 GP 17.57 ZAL 129.89 ZAP 23.61 ETS 316.58 ZAE 144.66 ETE 20.07 ZAC 128.86 ETC 147.11 CLP -16.03

PLANETOCENTRIC CONIC
 C3 17.662 VHL 4.203 DLA 9.79 RAL 7.69 RAD 6567.7 VEL 11.792 PTH 2.08 VHP 6.607 DPA 31.00 RAP 36.05 ECC 1.2907
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 18 24 2493.79 -25.22 59.97 229.94 103.32 1 59 58 1893.8 -23.14 51.92
 90.00 15 45 29 4520.52 10.19 190.06 225.86 63.44 17 0 50 3920.5 6.54 183.28
 100.00 2 44 34 2215.87 -26.33 39.22 229.63 104.69 3 21 30 1615.9 -24.05 31.16
 100.00 17 2 0 4273.67 11.21 171.38 225.33 62.11 18 13 14 3673.7 7.39 164.67
 110.00 4 3 47 1967.98 -29.29 19.40 228.64 108.47 4 36 35 1368.0 -26.48 11.34
 110.00 17 59 17 4094.32 13.89 156.20 223.76 58.45 19 7 31 3494.3 9.61 149.71

MID-COURSE EXECUTION ACCURACY
 SGT 886.7 SGR 532.2 SG3 190.1
 RRT .5404 RRF -.6336 RTF -.7718
 SGB 1034.1 R23 -.1120 R13 -.8058
 SG1 944.9 SG2 420.2 THA 22.70

ORBIT DETERMINATION ACCURACY
 ST 292.3 SR 375.7 SS 61.4
 CRT .8254 CRS -.2779 CST -.6095
 LSA 456.9 MSA 141.2 SSA 40.4
 EL1 456.2 EL2 135.9 ALF 53.54

DIFFERENTIAL CORRECTIONS
 TOE -.1937 TRA -.2973 TC3 .8803 BAW .2269
 ROE -.2719 RRA .1456 RC3 .3859 FAU .05305
 FOE -.0322 FRA -.1761 FC3-2.6006 BSP 2883
 BOE .3338 BRA .3310 BC3 .9611 FSP -521

LAUNCH DATE FEB 10 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.212 GAL -5.10 AZL 89.25 MCA 102.95 SMA 125.51 ECC .19679 INC .7467 V1 30.179
 RP 108.49 LAP .73 LOP 244.03 VP 37.271 GAP -8.28 AZP 90.17 TAL 201.76 TAP 304.71 RCA 100.81 APO 150.21 V2 34.929
 RC 58.051 GL 4.91 GP 18.95 ZAL 131.42 ZAP 26.43 ETS 319.35 ZAE 144.06 ETE 22.58 ZAC 128.38 ETC 145.93 CLP -18.78

PLANETOCENTRIC CONIC

C3 17.039 VHL 4.128 DLA 8.27 RAL 6.76 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 6.236 DPA 32.43 RAP 35.88 ECC 1.2804
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 26 49 2436.01 -24.25 56.01 227.85 105.08 2 7 25 1836.0 -21.95 48.10
 90.00 15 29 39 4561.70 11.43 192.45 224.45 63.92 16 45 40 3961.7 7.84 185.61
 100.00 2 52 10 2160.76 -25.32 35.44 227.52 106.44 3 28 10 1560.8 -22.83 27.53
 100.00 16 46 59 4312.19 12.43 173.59 223.94 62.59 17 58 51 3712.2 8.66 166.83
 110.00 4 9 32 1918.63 -28.17 16.00 226.46 110.21 4 41 30 318.6 -25.16 8.12
 110.00 17 46 6 4127.07 15.05 158.03 222.43 58.94 18 54 54 3527.1 10.82 151.48

DIFFERENTIAL CORRECTIONS

TDE -.1760 TRA -.2818 TC3 .9253 BAU .2358
 RDE -.2553 RRA .1525 RC3 .4641 FAU .05802
 FDE -.0882 FRA -.2234 FC3-2.9480 BSP 2971
 BOE .3101 BRA .3204 BC3 1.0352 FSP -590

MID-COURSE EXECUTION ACCURACY

SGT 894.1 SGR 564.0 SG3 212.3
 RRT .5844 RRF -.6900 RTF -.7763
 SGB 1057.2 R23 -.1281 R13 -.8192
 SG1 969.2 SG2 422.2 THA 25.38

ORBIT DETERMINATION ACCURACY

ST 272.5 SR 360.3 SS 92.0
 CRT .8068 CRS -.5936 CST -.8464
 LSA 436.3 MSA 142.2 SSA 43.9
 EL1 431.2 EL2 134.5 ALF 54.66

LAUNCH DATE FEB 10 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.320 GAL -5.15 AZL 89.44 MCA 106.13 SMA 126.21 ECC .19139 INC .5645 V1 30.179
 RP 108.53 LAP .54 LOP 247.21 VP 37.338 GAP -7.57 AZP 90.16 TAL 202.82 TAP 308.95 RCA 102.06 APO 150.37 V2 34.917
 RC 59.985 GL 3.78 GP 20.48 ZAL 132.83 ZAP 29.47 ETS 321.71 ZAE 143.58 ETE 25.38 ZAC 127.66 ETC 144.79 CLP -21.67

PLANETOCENTRIC CONIC

C3 16.524 VHL 4.065 DLA 6.70 RAL 5.97 RAD 6567.7 VEL 11.743 PTH 2.07 VHP 5.894 DPA 33.95 RAP 35.47 ECC 1.2719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 35 50 2379.00 -23.19 52.17 226.03 106.72 2 15 29 1779.0 -20.68 44.40
 90.00 15 14 21 4604.60 12.71 194.96 223.31 64.48 16 31 6 4004.6 9.17 188.06
 100.00 3 0 22 2106.34 -24.22 31.77 225.68 108.07 3 35 28 1506.3 -21.53 24.01
 100.00 16 32 30 4352.50 13.68 175.93 222.81 63.16 17 45 3 3752.5 9.97 169.10
 110.00 4 15 55 1869.89 -26.98 12.70 224.57 111.83 4 47 5 1269.9 -23.78 5.01
 110.00 17 33 26 4161.70 16.25 159.99 221.36 59.51 18 42 48 3561.7 12.09 153.36

DIFFERENTIAL CORRECTIONS

TDE -.1578 TRA -.2689 TC3 .9579 BAU .2443
 RDE -.2365 RRA .1603 RC3 .5531 FAU .06341
 FDE -.1559 FRA -.2731 FC3-3.3222 BSP 3056
 BOE .2843 BRA .3131 BC3 1.1061 FSP -667

MID-COURSE EXECUTION ACCURACY

SGT 895.3 SGR 604.3 SG3 236.5
 RRT .6239 RRF -.7433 RTF -.7780
 SGB 1080.1 R23 -.1445 R13 -.8326
 SG1 992.6 SG2 426.0 THA 28.56

ORBIT DETERMINATION ACCURACY

ST 251.2 SR 340.5 SS 133.2
 CRT .7789 CRS -.7213 CST -.9178
 LSA 416.9 MSA 144.1 SSA 47.2
 EL1 401.5 EL2 133.6 ALF 55.82

LAUNCH DATE FEB 10 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.415 GAL -5.19 AZL 89.62 MCA 109.31 SMA 126.84 ECC .18667 INC .3766 V1 30.179
 RP 108.57 LAP .36 LOP 250.39 VP 37.397 GAP -6.89 AZP 90.12 TAL 203.81 TAP 313.12 RCA 103.16 APO 150.52 V2 34.906
 RC 61.981 GL 2.56 GP 22.17 ZAL 134.11 ZAP 32.74 ETS 323.79 ZAE 143.20 ETE 28.55 ZAC 126.69 ETC 143.73 CLP -24.73

PLANETOCENTRIC CONIC

C3 16.099 VHL 4.012 DLA 5.10 RAL 5.34 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 5.580 DPA 35.54 RAP 34.78 ECC 1.2650
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 29 2322.59 -22.03 48.44 224.49 108.25 2 24 12 1722.6 -19.34 40.81
 90.00 14 59 38 4649.12 14.00 197.59 222.43 65.13 16 17 7 4049.1 10.53 190.63
 100.00 3 9 14 2052.47 -23.04 28.20 224.11 109.59 3 43 27 1452.5 -20.16 20.59
 100.00 16 18 34 4394.47 14.95 178.39 221.96 63.81 17 31 48 3794.5 11.31 171.49
 110.00 4 22 59 1821.64 -25.72 0.52 222.96 113.33 4 53 21 1221.6 -22.34 2.00
 110.00 17 21 18 4198.07 17.50 162.08 220.55 60.16 18 31 16 3598.1 13.40 155.37

DIFFERENTIAL CORRECTIONS

TDE -.1397 TRA -.2589 TC3 .9754 BAU .2528
 RDE -.2150 RRA .1691 RC3 .6540 FAU .06918
 FDE -.2363 FRA -.3235 FC3-3.7200 BSP 3137
 BOE .2564 BRA .3092 BC3 1.1744 FSP -749

MID-COURSE EXECUTION ACCURACY

SGT 888.9 SGR 654.5 SG3 262.6
 RRT .6565 RRF -.7918 RTF -.7761
 SGB 1103.9 R23 -.1597 R13 -.8467
 SG1 1015.9 SG2 432.0 THA 32.33

ORBIT DETERMINATION ACCURACY

ST 229.7 SR 315.8 SS 181.2
 CRT .7376 CRS -.7754 CST -.9350
 LSA 401.7 MSA 146.6 SSA 49.9
 EL1 367.0 EL2 133.5 ALF 56.86

LAUNCH DATE FEB 10 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.499 GAL -5.23 AZL 89.82 MCA 112.49 SMA 127.40 ECC .18255 INC .1812 V1 30.179
 RP 108.60 LAP .17 LOP 253.57 VP 37.448 GAP -6.24 AZP 90.07 TAL 204.73 TAP 317.21 RCA 104.14 APO 150.65 V2 34.894
 RC 64.032 GL 1.25 GP 24.03 ZAL 135.24 ZAP 36.24 ETS 325.69 ZAE 142.87 ETE 32.12 ZAC 125.45 ETC 142.78 CLP -27.98

PLANETOCENTRIC CONIC

C3 15.751 VHL 3.969 DLA 3.47 RAL 4.86 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 5.296 DPA 37.22 RAP 33.78 ECC 1.2592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 55 52 2266.50 -20.79 44.80 223.21 109.67 2 33 39 1666.5 -17.92 37.30
 90.00 14 45 25 4695.30 15.30 200.35 221.83 65.88 16 3 41 4095.3 11.91 193.31
 100.00 3 18 50 1998.90 -21.77 24.73 222.82 111.00 3 52 9 1398.9 -18.72 17.26
 100.00 16 5 9 4438.13 16.25 180.99 221.37 64.56 17 19 7 3838.1 12.69 174.00
 110.00 4 30 48 1773.67 -24.39 6.43 221.62 114.73 5 0 22 1173.7 -20.85 359.07
 110.00 17 9 40 4236.12 18.77 164.29 220.01 60.89 18 20 16 3636.1 14.75 157.48

DIFFERENTIAL CORRECTIONS

TDE -.1205 TRA -.2507 TC3 .9798 BAU .2622
 RDE -.1894 RRA .1791 RC3 .7686 FAU .07535
 FDE -.3333 FRA -.3753 FC3-4.1412 BSP 3264
 BOE .2244 BRA .3081 BC3 1.2453 FSP -843

MID-COURSE EXECUTION ACCURACY

SGT 875.5 SGR 717.0 SG3 290.8
 RRT .6820 RRF -.8347 RTF -.7723
 SGB 1131.7 R23 -.1689 R13 -.8633
 SG1 1042.4 SG2 440.4 THA 36.78

ORBIT DETERMINATION ACCURACY

ST 206.4 SR 284.8 SS 236.8
 CRT .6721 CRS -.7945 CST -.9276
 LSA 393.7 MSA 148.8 SSA 51.7
 EL1 325.3 EL2 133.8 ALF 57.98

LAUNCH DATE FEB 10 1969

FLIGHT TIME 94.80

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.571 GAL -5.26 AZL 90.02 MCA 115.66 SMA 127.89 ECC .17898 INC .0221 V1 30.179
 RP 108.64 LAP -.02 LOP 256.74 VP 37.491 GAP -5.62 AZP 89.99 TAL 205.55 TAP 321.21 RCA 105.00 APO 150.78 V2 34.883
 RC 66.131 GL -1.16 GP 26.07 ZAL 136.20 ZAP 39.97 ETS 327.48 ZAE 142.54 ETE 36.14 ZAC 123.93 ETC 141.98 CLP -31.44

PLANETOCENTRIC CONIC
 C3 15.470 VHL 3.933 DLA 1.79 RAL 4.54 RAD 6567.6 VEL 11.698 PTH 2.06 VHP 5.042 DPA 38.97 RAP 32.42 ECC 1.2546
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 5 2210.41 -19.47 41.22 222.20 110.98 2 43 55 1610.4 -16.44 33.85
 90.00 14 31 42 4743.24 16.61 203.26 221.50 66.73 15 50 45 4143.2 13.32 196.13
 100.00 3 29 15 1945.34 -20.43 21.32 221.80 112.31 4 1 40 1345.3 -17.22 13.99
 100.00 15 52 12 4483.54 17.56 183.73 221.06 65.41 17 6 56 3883.5 14.09 176.65
 110.00 4 39 25 1725.74 -22.99 3.41 220.56 116.02 5 8 10 1125.7 -19.30 356.21
 110.00 16 58 32 4275.91 20.07 166.64 219.74 61.73 18 9 48 3675.9 16.14 159.73

DIFFERENTIAL CORRECTIONS
 TOE -.1044 TRA -.2478 TC3 .9606 BAU .2717
 RDE -.1596 RRA .1894 RC3 .8959 FAU .08160
 FDE -.4434 FRA -.4218 FC3-4.5662 BSP 3355
 BOE .1907 BRA .3119 BC3 1.3136 FSP -937

MID-COURSE EXECUTION ACCURACY
 SGT 851.2 SGR 791.8 SG3 319.8
 RRT .6948 RRF -.8705 RTF -.7599
 SGB 1162.6 R23 -.1745 R13 -.8797
 SG1 1070.8 SG2 452.7 THA 42.02

ORBIT DETERMINATION ACCURACY
 ST 188.1 SR 247.7 SS 296.4
 CRT .5767 CRS -.7871 CST -.9047
 LSA 399.4 MSA 149.7 SSA 52.1
 EL1 279.7 EL2 136.1 ALF 57.91

LAUNCH DATE FEB 10 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.634 GAL -5.28 AZL 90.24 MCA 118.83 SMA 128.32 ECC .17589 INC .2379 V1 30.179
 RP 108.67 LAP -.21 LOP 259.92 VP 37.527 GAP -5.02 AZP 89.89 TAL 206.28 TAP 325.11 RCA 105.75 APO 150.89 V2 34.873
 RC 68.274 GL -1.68 GP 28.29 ZAL 137.00 ZAP 43.92 ETS 329.25 ZAE 142.15 ETE 40.64 ZAC 122.13 ETC 141.36 CLP -35.11

PLANETOCENTRIC CONIC
 C3 15.247 VHL 3.905 DLA .07 RAL 4.39 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 4.820 DPA 40.79 RAP 30.67 ECC 1.2509
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 19 13 2153.88 -18.05 37.67 221.47 112.19 2 55 7 1553.9 -14.88 30.43
 90.00 14 18 22 4793.25 17.93 206.34 221.44 67.71 15 38 15 4193.3 14.75 199.10
 100.00 3 40 36 1891.38 -19.00 17.95 221.05 113.52 4 12 7 1291.4 -15.65 10.75
 100.00 15 39 40 4530.98 18.88 186.63 221.02 66.38 16 55 11 3931.0 15.52 179.44
 110.00 4 48 55 1677.51 -21.52 .44 219.77 117.22 5 16 53 1077.5 -17.70 353.39
 110.00 16 47 50 4317.61 21.40 169.15 219.74 62.68 17 59 48 3717.6 17.57 162.12

DIFFERENTIAL CORRECTIONS
 TOE -.0909 TRA -.2490 TC3 .9181 BAU .2822
 RDE -.1246 RRA .1996 RC3 1.0365 FAU .08777
 FDE -.5682 FRA -.4619 FC3-4.9833 BSP 3464
 BOE .1542 BRA .3192 BC3 1.3846 FSP -1033

MID-COURSE EXECUTION ACCURACY
 SGT 815.7 SGR 880.0 SG3 348.8
 RRT .6934 RRF -.8996 RTF -.7384
 SGB 1199.9 R23 -.1708 R13 -.8975
 SG1 1104.8 SG2 468.2 THA 48.13

ORBIT DETERMINATION ACCURACY
 ST 174.0 SR 204.3 SS 360.6
 CRT .4296 CRS -.7444 CST -.8692
 LSA 421.3 MSA 148.1 SSA 51.0
 EL1 228.7 EL2 140.3 ALF 55.29

LAUNCH DATE FEB 10 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.688 GAL -5.30 AZL 90.47 MCA 122.00 SMA 128.69 ECC .17323 INC .4665 V1 30.179
 RP 108.70 LAP -.40 LOP 263.09 VP 37.557 GAP -4.45 AZP 89.75 TAL 206.91 TAP 328.91 RCA 106.40 APO 150.98 V2 34.862
 RC 70.456 GL -3.32 GP 30.69 ZAL 137.60 ZAP 48.08 ETS 331.08 ZAE 141.61 ETE 45.60 ZAC 120.04 ETC 140.95 CLP -39.03

PLANETOCENTRIC CONIC
 C3 15.079 VHL 3.883 DLA -1.70 RAL 4.41 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 4.630 DPA 42.66 RAP 28.47 ECC 1.2482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 32 27 2096.39 -16.54 34.13 221.01 113.32 3 7 24 1496.4 -13.24 27.01
 90.00 14 5 18 4845.76 19.25 209.62 221.67 68.83 15 26 4 4245.8 16.21 202.27
 100.00 3 53 1 1836.54 -17.47 14.59 220.57 114.65 4 23 37 1236.5 -14.00 7.52
 100.00 15 27 26 4580.83 20.21 189.74 221.26 67.49 16 43 47 3980.8 16.98 182.43
 110.00 4 59 26 1628.60 -19.97 357.49 219.26 118.34 5 26 35 1028.6 -16.03 350.59
 110.00 16 37 29 4361.55 22.75 171.85 220.03 63.77 17 50 11 3761.5 19.03 164.68

DIFFERENTIAL CORRECTIONS
 TOE -.0793 TRA -.2529 TC3 .8552 BAU .2958
 RDE -.0821 RRA .2101 RC3 1.1921 FAU .09380
 FDE -.7115 FRA -.4953 FC3-5.3855 BSP 3639
 BOE .1142 BRA .3288 BC3 1.4672 FSP -1134

MID-COURSE EXECUTION ACCURACY
 SGT 770.9 SGR 983.9 SG3 377.9
 RRT .6768 RRF -.9230 RTF -.7065
 SGB 1250.0 R23 -.1540 R13 -.9168
 SG1 1152.2 SG2 484.7 THA 55.00

ORBIT DETERMINATION ACCURACY
 ST 163.2 SR 155.3 SS 432.0
 CRT .1699 CRS -.6160 CST -.8223
 LSA 462.7 MSA 144.5 SSA 48.4
 EL1 172.8 EL2 144.5 ALF 36.81

LAUNCH DATE FEB 10 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.733 GAL -5.30 AZL 90.71 MCA 125.17 SMA 129.00 ECC .17095 INC .7115 V1 30.179
 RP 108.73 LAP -.58 LOP 266.26 VP 37.582 GAP -3.91 AZP 89.59 TAL 207.43 TAP 332.60 RCA 106.95 APO 151.05 V2 34.853
 RC 72.672 GL -5.09 GP 33.27 ZAL 138.01 ZAP 52.44 ETS 333.03 ZAE 140.87 ETE 51.01 ZAC 117.68 ETC 140.79 CLP -43.20

PLANETOCENTRIC CONIC
 C3 14.962 VHL 3.868 DLA -3.54 RAL 4.61 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 4.476 DPA 44.56 RAP 25.80 ECC 1.2462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 47 0 2037.31 -14.91 30.56 220.83 114.35 3 20 57 1437.3 -11.50 23.54
 90.00 13 52 21 4901.36 20.58 213.16 222.19 70.11 15 14 3 4301.4 17.69 205.68
 100.00 4 6 41 1780.26 -15.84 11.21 220.38 115.69 4 36 21 1180.3 -12.26 4.25
 100.00 15 15 21 4633.64 21.55 193.09 221.81 68.76 16 32 35 4033.6 18.47 185.64
 110.00 5 11 7 1578.52 -18.32 354.54 219.03 119.38 5 37 26 978.5 -14.27 347.77
 110.00 16 27 24 4408.15 24.12 174.78 220.62 65.01 17 40 52 3808.1 20.55 167.45

DIFFERENTIAL CORRECTIONS
 TOE -.0745 TRA -.2626 TC3 .7607 BAU .3112
 RDE -.0325 RRA .2187 RC3 1.3572 FAU .09903
 FDE -.8641 FRA -.5119 FC3-5.7299 BSP 3818
 BOE .0812 BRA .3417 BC3 1.5558 FSP -1222

MID-COURSE EXECUTION ACCURACY
 SGT 714.4 SGR 1100.0 SG3 404.0
 RRT .6321 RRF -.9408 RTF -.6501
 SGB 1311.6 R23 -.1281 R13 -.9347
 SG1 1211.5 SG2 502.6 THA 62.58

ORBIT DETERMINATION ACCURACY
 ST 161.7 SR 113.1 SS 505.4
 CRT -.3014 CRS -.2389 CST -.7830
 LSA 522.1 MSA 140.5 SSA 44.8
 EL1 167.7 EL2 104.0 ALF 160.23

LAUNCH DATE FEB 10 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 283.893

RL 147.63 LAL .00 LOL 141.08 VL 27.771 GAL -5.30 AZL 90.98 HCA 128.34 SMA 129.26 ECC .16899 INC .9761 V1 30.179
 RP 108.76 LAP -.77 LOP 269.42 VP 37.601 GAP -3.38 AZP 89.39 TAL 207.84 TAP 336.18 RCA 107.42 APO 151.11 V2 34.844
 RC 74.919 GL -7.01 GP 35.99 ZAL 138.19 ZAP 56.95 ETS 335.17 ZAE 139.85 ETE 56.77 ZAC 115.07 ETC 140.91 CLP -47.62

PLANETOCENTRIC CONIC

C3 14.899 VHL 3.860 DLA -5.48 RAL 5.00 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 4.358 DPA 46.45 RAP 22.63 ECC 1.2452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 3 5 1975.89 -13.15 26.90 220.95 115.30 3 36 1 1375.9 -9.64 19.99
 90.00 13 39 21 4960.89 21.91 217.02 223.04 71.60 15 2 2 4360.9 19.20 209.40
 100.00 4 21 50 1721.83 -14.09 7.76 220.48 116.64 4 50 32 1121.8 -10.40 .91
 100.00 15 3 16 4690.18 22.89 196.74 222.67 70.24 16 21 27 4090.2 19.99 189.15
 110.00 5 24 9 1526.72 -16.57 351.55 219.09 120.34 5 49 36 926.7 -12.41 344.91
 110.00 16 17 27 4458.05 25.51 177.98 221.53 66.44 17 31 45 3858.1 22.11 170.48

DIFFERENTIAL CORRECTIONS

TDE -.0766 TRA -.2765 TC3 .6367 BAU .3299
 RDE .0259 RRA .2242 RC3 1.5291 FAU .10316
 FDE -1.0255 FRA -.5091 FC3-5.9942 BSP 4047
 BDE .0809 BRA .3560 BC3 1.6563 FSP -1298

MID-COURSE EXECUTION ACCURACY

SGT 651.6 SGR 1227.4 SG3 426.0
 RRT .5477 RRF -.9542 RTF -.5568
 SGB 1389.7 R23 -.0943 R13 -.9504
 SG1 1289.1 SG2 519.1 THA 70.50

ORBIT DETERMINATION ACCURACY

ST 168.7 SR 113.1 SS 581.9
 CRT -.8522 CRS .4937 CST -.7643
 LSA 599.5 MSA 137.2 SSA 40.3
 EL1 196.6 EL2 50.8 ALF 147.86

LAUNCH DATE FEB 10 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 290.344

RL 147.63 LAL .00 LOL 141.08 VL 27.801 GAL -5.29 AZL 91.27 HCA 131.50 SMA 129.48 ECC .16732 INC 1.2649 V1 30.179
 RP 108.78 LAP -.95 LOP 272.59 VP 37.616 GAP -2.88 AZP 89.16 TAL 208.15 TAP 339.65 RCA 107.81 APO 151.14 V2 34.835
 RC 77.194 GL -9.11 GP 38.86 ZAL 138.15 ZAP 61.57 ETS 337.57 ZAE 138.49 ETE 62.77 ZAC 112.26 ETC 141.31 CLP -52.31

PLANETOCENTRIC CONIC

C3 14.895 VHL 3.859 DLA -7.52 RAL 5.58 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 4.280 DPA 48.30 RAP 18.95 ECC 1.2451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 3 1911.19 -11.24 23.12 221.40 116.16 3 52 54 1311.2 -7.63 16.29
 90.00 13 26 0 5025.47 23.24 221.29 224.24 73.35 14 49 46 4425.5 20.73 213.51
 100.00 4 38 47 1660.42 -12.18 4.19 220.91 117.51 5 6 27 1060.4 -8.40 357.44
 100.00 14 50 57 4751.47 24.25 200.79 223.89 71.96 16 10 9 4151.5 21.55 193.03
 110.00 5 38 47 1472.56 -14.68 348.49 219.47 121.22 6 3 20 872.6 -10.44 341.96
 110.00 16 7 27 4512.10 26.94 181.54 222.81 68.11 17 22 39 3912.1 23.72 173.85

DIFFERENTIAL CORRECTIONS

TDE -.0865 TRA -.2923 TC3 .4869 BAU .3533
 RDE .0957 RRA .2269 RC3 1.7059 FAU .10605
 FDE -1.1956 FRA -.4904 FC3-6.1638 BSP 4378
 BDE .1290 BRA .3700 BC3 1.7741 FSP -1366

MID-COURSE EXECUTION ACCURACY

SGT 591.0 SGR 1367.3 SG3 443.3
 RRT .4057 RRF -.9645 RTF -.4084
 SGB 1489.6 R23 -.0571 R13 -.9630
 SG1 1391.9 SG2 530.7 THA 78.33

ORBIT DETERMINATION ACCURACY

ST 184.0 SR 179.3 SS 663.4
 CRT -.9453 CRS .8714 CST -.7731
 LSA 697.6 MSA 135.2 SSA 35.2
 EL1 253.4 EL2 42.5 ALF 135.79

LAUNCH DATE FEB 10 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 296.768

RL 147.63 LAL .00 LOL 141.08 VL 27.825 GAL -5.27 AZL 91.58 HCA 134.66 SMA 129.64 ECC .16591 INC 1.5833 V1 30.179
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.626 GAP -2.40 AZP 88.89 TAL 208.35 TAP 343.01 RCA 108.13 APO 151.15 V2 34.827
 RC 79.493 GL -11.42 GP 41.82 ZAL 137.84 ZAP 66.22 ETS 340.27 ZAE 136.75 ETE 68.89 ZAC 109.28 ETC 142.01 CLP -57.25

PLANETOCENTRIC CONIC

C3 14.961 VHL 3.868 DLA -9.69 RAL 6.37 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 4.243 DPA 50.08 RAP 14.77 ECC 1.2462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 22 1842.03 -9.14 19.12 222.21 116.92 4 12 4 1242.0 -5.45 12.38
 90.00 13 12 0 5096.59 24.54 226.09 225.83 75.41 14 36 57 4496.6 22.30 218.14
 100.00 4 57 56 1594.98 -10.10 .45 221.70 118.28 5 24 31 995.0 -6.24 353.79
 100.00 14 38 7 4818.87 25.59 205.35 225.51 74.00 15 58 26 4218.9 23.15 197.40
 110.00 5 55 20 1415.24 -12.63 345.31 220.20 122.03 6 18 55 815.2 -8.31 338.88
 110.00 15 57 12 4571.37 28.38 185.55 224.50 70.09 17 13 24 3971.4 25.40 177.63

DIFFERENTIAL CORRECTIONS

TDE -.1096 TRA -.3120 TC3 .3038 BAU .3796
 RDE .1757 RRA .2222 RC3 1.8732 FAU .10688
 FDE -1.3588 FRA -.4432 FC3-6.1849 BSP 4734
 BDE .2071 BRA .3831 BC3 1.8977 FSP -1401

MID-COURSE EXECUTION ACCURACY

SGT 549.1 SGR 1509.7 SG3 452.1
 RRT .1710 RRF -.9720 RTF -.1688
 SGB 1606.4 R23 -.0220 R13 -.9718
 SG1 1513.0 SG2 539.8 THA 85.92

ORBIT DETERMINATION ACCURACY

ST 215.0 SR 282.2 SS 743.3
 CRT -.9238 CRS .9612 CST -.8120
 LSA 812.0 MSA 134.7 SSA 30.3
 EL1 348.4 EL2 66.6 ALF 126.70

LAUNCH DATE FEB 10 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 303.165

RL 147.63 LAL .00 LOL 141.08 VL 27.843 GAL -5.24 AZL 91.94 HCA 137.82 SMA 129.77 ECC .16473 INC 1.9381 V1 30.179
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.632 GAP -1.93 AZP 88.56 TAL 208.43 TAP 346.26 RCA 108.39 APO 151.14 V2 34.820
 RC 81.813 GL -13.96 GP 44.85 ZAL 137.24 ZAP 70.84 ETS 343.32 ZAE 134.63 ETE 74.99 ZAC 106.19 ETC 143.02 CLP -62.42

PLANETOCENTRIC CONIC

C3 15.114 VHL 3.888 DLA -12.03 RAL 7.39 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 4.251 DPA 51.75 RAP 10.14 ECC 1.2487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 38 1766.85 -6.79 14.84 223.45 117.56 4 34 5 1166.9 -3.05 8.16
 90.00 12 56 52 5176.33 25.80 231.60 227.87 77.90 14 23 9 4576.3 23.87 223.46
 100.00 5 19 51 1524.19 -7.79 356.46 222.91 118.95 5 45 15 924.2 -3.87 349.87
 100.00 14 24 21 4894.22 26.90 210.57 227.59 76.45 15 45 55 4294.2 24.77 202.42
 110.00 6 14 15 1353.84 -10.39 341.97 221.34 122.75 6 36 48 753.8 -6.00 335.62
 110.00 15 46 26 4637.34 29.82 190.14 226.67 72.46 17 3 44 4037.3 27.13 181.98

DIFFERENTIAL CORRECTIONS

TDE -.1467 TRA -.3314 TC3 .0977 BAU .4101
 RDE .2692 RRA .2107 RC3 2.0271 FAU .10580
 FDE -1.5165 FRA -.3769 FC3-6.0605 BSP 5191
 BDE .3066 BRA .3927 BC3 2.0295 FSP -1417

MID-COURSE EXECUTION ACCURACY

SGT 549.4 SGR 1656.0 SG3 453.3
 RRT -.1369 RRF -.9777 RTF .1418
 SGB 1744.8 R23 .0083 R13 -.9777
 SG1 1658.0 SG2 543.6 THA 92.91

ORBIT DETERMINATION ACCURACY

ST 263.0 SR 410.7 SS 824.9
 CRT -.9250 CRS .9860 CST -.8606
 LSA 948.4 MSA 135.4 SSA 25.5
 EL1 480.2 EL2 85.5 ALF 121.76

LAUNCH DATE FEB 10 1969

FLIGHT TIME 110.00

ARRIVAL DATE MAY 31 1969

DISTANCE 309.534

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.855 GAL -5.20 AZL 92.34 MCA 140.98 SMA 129.85 ECC .16374 INC 2.3389 VI 30.179
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.635 GAP -1.49 AZP 88.18 TAL 208.42 TAP 349.40 RCA 108.59 APO 151.12 V2 34.813
 RC 84.153 GL -16.78 GP 47.92 ZAL 136.32 ZAP 75.32 ETS 346.74 ZAE 132.13 ETE 80.94 ZAC 103.05 ETC 144.31 CLP -67.79

PLANETOCENTRIC CONIC
 C3 15.382 VHL 3.922 DLA -14.56 RAL 8.67 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 4.309 DPA 53.30 RAP 5.11 ECC 1.2532
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 46 1683.49 -4.14 10.15 225.21 118.04 4 59 50 1083.5 -3.36 5.51
 90.00 12 39 55 5267.60 26.94 238.03 230.14 80.93 14 7 43 4667.6 25.41 229.70
 100.00 5 45 18 1446.23 -5.20 352.13 224.63 119.48 6 9 25 846.2 -1.23 345.58
 100.00 14 9 4 4980.09 28.12 216.65 230.21 79.43 15 32 4 4380.1 26.38 208.29
 110.00 6 36 6 1287.15 -7.91 338.39 222.96 123.36 6 57 33 687.2 -3.47 332.12
 110.00 15 34 46 4711.94 31.23 195.49 229.41 75.34 16 53 18 4111.9 28.90 187.06

DIFFERENTIAL CORRECTIONS
 TDE -.2035 TRA -.3503 TC3 -.1308 BAU .4427
 ROE .3748 RRA .1876 RC3 2.1485 FAU .10230
 FDE-1.6532 FRA -.2848 FC3-5.7577 BSP 5670
 BOE .4265 BRA .3973 BC3 2.1525 FSP -1394

MID-COURSE EXECUTION ACCURACY
 SGT 615.2 SGR 1794.5 SG3 444.1
 RRT -.4397 RRF -.9819 RTF .4456
 SGB 1897.0 R23 .0335 R13 -.9814
 SG1 1816.8 SG2 545.7 THA 99.43

ORBIT DETERMINATION ACCURACY
 ST 337.0 SR 556.4 SS 901.8
 CRT -.9409 CRS .9944 CST -.9052
 LSA 1103.2 MSA 137.4 SSA 21.3
 EL1 643.0 EL2 98.8 ALF 120.47

LAUNCH DATE FEB 10 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 2 1969

DISTANCE 315.875

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.862 GAL -5.15 AZL 92.80 MCA 144.13 SMA 129.90 ECC .16292 INC 2.7979 VI 30.179
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.634 GAP -1.06 AZP 87.73 TAL 208.30 TAP 352.43 RCA 108.74 APO 151.07 V2 34.807
 RC 86.508 GL -19.92 GP 51.02 ZAL 135.04 ZAP 79.59 ETS 350.55 ZAE 129.30 ETE 86.67 ZAC 99.92 ETC 145.87 CLP -73.31

PLANETOCENTRIC CONIC
 C3 15.810 VHL 3.976 DLA -17.32 RAL 10.23 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 4.421 DPA 54.72 RAP 359.75 ECC 1.2602
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 10 1588.59 -1.09 4.85 227.63 118.30 5 30 39 988.6 2.70 358.22
 90.00 12 20 1 5374.89 27.86 245.75 233.61 84.69 13 49 36 4774.9 26.83 237.23
 100.00 6 15 30 1358.44 -2.24 347.29 226.99 119.82 6 38 9 758.4 1.75 340.77
 100.00 13 51 23 5080.28 29.16 223.92 233.45 83.11 15 16 3 4480.3 27.90 215.34
 110.00 7 1 43 1213.63 -5.14 334.50 225.19 123.84 7 21 57 613.6 -6.66 328.28
 110.00 15 21 39 4797.84 32.54 201.85 232.83 78.89 16 41 37 4197.8 30.66 193.13

DIFFERENTIAL CORRECTIONS
 TDE -.2835 TRA -.3643 TC3 -.3686 BAU .4768
 ROE .4949 RRA .1516 RC3 2.2256 FAU .09658
 FDE-1.7668 FRA -.1753 FC3-5.2888 BSP 6192
 BOE .5704 BRA .3946 BC3 2.2559 FSP -1339

MID-COURSE EXECUTION ACCURACY
 SGT 745.1 SGR 1921.9 SG3 425.4
 RRT -.6536 RRF -.9850 RTF .6592
 SGB 2061.3 R23 .0540 R13 -.9837
 SG1 1987.8 SG2 545.2 THA 105.41

ORBIT DETERMINATION ACCURACY
 ST 440.6 SR 718.4 SS 974.2
 CRT -.9575 CRS .9976 CST -.9381
 LSA 1280.4 MSA 140.3 SSA 17.5
 EL1 835.7 EL2 109.2 ALF 121.01

LAUNCH DATE FEB 10 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 4 1969

DISTANCE 322.189

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.864 GAL -5.09 AZL 93.33 MCA 147.28 SMA 129.92 ECC .16225 INC 3.3324 VI 30.179
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.631 GAP -.65 AZP 87.20 TAL 208.09 TAP 355.37 RCA 108.84 APO 151.00 V2 34.802
 RC 88.877 GL -23.43 GP 54.15 ZAL 133.35 ZAP 83.55 ETS 354.74 ZAE 126.16 ETE 92.13 ZAC 96.84 ETC 147.67 CLP -78.95

PLANETOCENTRIC CONIC
 C3 16.465 VHL 4.058 DLA -20.36 RAL 12.14 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 4.597 DPA 56.04 RAP 354.10 ECC 1.2710
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 44 17 1476.13 2.54 358.57 230.94 118.21 6 8 53 876.1 6.29 351.90
 90.00 11 55 7 5505.85 28.31 255.30 237.46 89.45 13 26 52 4905.8 27.94 246.65
 100.00 6 52 23 1256.36 1.22 341.69 230.21 119.87 7 13 19 656.4 5.19 335.15
 100.00 13 29 42 5200.84 29.82 232.82 237.42 87.75 14 56 23 4600.8 29.18 224.07
 110.00 7 32 22 1131.06 -2.00 330.18 228.20 124.13 7 51 13 531.1 2.49 323.97
 110.00 15 6 12 4898.91 33.60 209.54 237.07 83.32 16 27 51 4298.9 32.31 200.54

DIFFERENTIAL CORRECTIONS
 TDE -.3922 TRA -.3695 TC3 -.6007 BAU .5123
 ROE .6327 RRA .1023 RC3 2.2486 FAU .08907
 FDE-1.8560 FRA -.0583 FC3-4.6834 BSP 6786
 BOE .7444 BRA .3834 BC3 2.3275 FSP -1265

MID-COURSE EXECUTION ACCURACY
 SGT 924.1 SGR 2037.6 SG3 399.0
 RRT -.7807 RRF -.9874 RTF .7858
 SGB 2237.4 R23 .0698 R13 -.9852
 SG1 2170.7 SG2 542.1 THA 110.86

ORBIT DETERMINATION ACCURACY
 ST 578.6 SR 896.2 SS 1041.9
 CRT -.9705 CRS .9990 CST -.9602
 LSA 1484.2 MSA 143.4 SSA 14.3
 EL1 1060.2 EL2 117.9 ALF 122.52

LAUNCH DATE FEB 10 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 6 1969

DISTANCE 328.475

MELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.862 GAL -5.03 AZL 93.97 MCA 150.43 SMA 129.90 ECC .16172 INC 3.9668 VI 30.179
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.625 GAP -.25 AZP 86.55 TAL 207.77 TAP 358.20 RCA 108.90 APO 150.91 V2 34.797
 RC 91.256 GL -27.36 GP 57.32 ZAL 131.20 ZAP 87.12 ETS 359.32 ZAE 122.76 ETE 97.30 ZAC 93.85 ETC 149.69 CLP -84.66

PLANETOCENTRIC CONIC
 C3 17.457 VHL 4.178 DLA -23.69 RAL 14.45 RAD 6567.7 VEL 11.783 PTH 2.08 VHP 4.848 DPA 57.29 RAP 348.19 ECC 1.2873
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 23 1331.99 7.13 350.47 235.55 117.48 6 59 35 732.0 10.76 343.67
 90.00 11 20 25 5676.92 27.79 267.77 241.95 95.68 12 55 2 5076.9 28.28 259.14
 100.00 7 39 43 1130.78 5.46 334.77 234.64 119.44 7 58 34 530.8 9.34 328.14
 100.00 13 0 46 5353.36 29.68 244.14 242.13 93.70 14 29 59 4753.4 29.88 235.34
 110.00 8 10 1 1035.76 1.64 325.21 232.27 124.15 8 27 17 435.8 6.11 318.97
 110.00 14 46 57 5021.14 34.17 219.03 242.25 88.91 16 10 38 4421.1 33.64 209.83

DIFFERENTIAL CORRECTIONS
 TDE -.5385 TRA -.3613 TC3 -.8110 BAU .5459
 ROE .7866 RRA .0334 RC3 2.1940 FAU .07971
 FDE-1.9094 FRA .0677 FC3-3.9530 BSP 7353
 BOE .9533 BRA .3628 BC3 2.3391 FSP -1156

MID-COURSE EXECUTION ACCURACY
 SGT 1139.0 SGR 2127.8 SG3 364.3
 RRT -.8525 RRF -.9893 RTF .8573
 SGB 2413.5 R23 .0833 R13 -.9862
 SG1 2352.6 SG2 538.4 THA 115.99

ORBIT DETERMINATION ACCURACY
 ST 756.3 SR 1080.2 SS 1097.6
 CRT -.9793 CRS .9996 CST -.9741
 LSA 1709.3 MSA 147.2 SSA 11.5
 EL1 1312.7 EL2 125.9 ALF 124.80

LAUNCH DATE FEB 10 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 334.734

RL 147.63 LAL .00 LOL 141.08 VL 27.856 GAL -4.95 AZL 94.74 HCA 153.57 SMA 129.86 ECC .16131 INC 4.7371 V1 30.179
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.617 GAP .13 AZP 85.76 TAL 207.37 TAP .94 RCA 108.91 APO 150.81 V2 34.793
 RC 93.644 GL -31.75 GP 60.58 ZAL 128.54 ZAP 90.21 ETS 4.30 ZAE 119.11 ETE 102.24 ZAC 90.95 ETC 151.95 CLP -90.43

PLANETOCENTRIC CONIC

C3 18.968 VHL 4.355 DLA -27.35 RAL 17.24 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 5.193 DPA 58.48 RAP 341.96 ECC 1.3122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 5 7 1091.60 14.36 336.52 242.59 114.67 8 23 19 491.6 17.57 329.31
 90.00 10 15 0 668.06 24.35 309.54 246.39 104.92 10 26 8 68.1 26.16 301.34
 100.00 8 48 11 952.44 11.30 324.75 241.04 117.86 9 4 4 352.4 14.94 317.85
 100.00 12 14 37 5570.49 27.68 259.94 247.27 101.77 13 47 27 4970.5 29.02 251.40
 110.00 8 58 30 920.08 6.05 319.14 237.87 123.71 9 13 50 320.1 10.43 312.80
 110.00 14 20 48 5175.61 33.72 231.06 248.37 96.00 15 47 3 4575.6 34.18 221.85

DIFFERENTIAL CORRECTIONS

TOE -.7333 TRA -.3325 TC3 -.9760 BAU .5781
 RDE .9636 RRA -.0542 RC3 2.0602 FAU .06935
 FDE-1.9330 FRA .1875 FC3-3.1654 BSP 7974
 BOE 1.2108 BRA .3369 BC3 2.2797 FSP -1037

MID-COURSE EXECUTION ACCURACY

SGT 1376.9 SGR 2198.6 SG3 325.0
 RRT -.8949 RRF -.9909 RTF .8999
 SGB 2594.1 R23 .0933 R13 -.9869
 SG1 2538.9 SG2 532.2 THA 120.77

ORBIT DETERMINATION ACCURACY

ST 976.2 SR 1269.0 SS 1142.3
 CRT -.9853 CRS .9999 CST -.9830
 LSA 1961.0 MSA 150.4 SSA 9.1
 EL1 1595.6 EL2 132.6 ALF 127.47

LAUNCH DATE FEB 10 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 340.964

RL 147.63 LAL .00 LOL 141.08 VL 27.846 GAL -4.86 AZL 95.70 HCA 156.71 SMA 129.80 ECC .16100 INC 5.6982 V1 30.179
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.607 GAP .50 AZP 84.76 TAL 206.88 TAP 3.59 RCA 108.90 APO 150.69 V2 34.789
 RC 96.038 GL -36.64 GP 63.98 ZAL 125.33 ZAP 92.75 ETS 9.72 ZAE 115.20 ETE 107.04 ZAC 88.13 ETC 154.49 CLP -96.29

PLANETOCENTRIC CONIC

C3 21.313 VHL 4.617 DLA -31.32 RAL 20.65 RAD 6567.9 VEL 11.945 PTH 2.13 VHP 5.664 DPA 59.66 RAP 335.28 ECC 1.3508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.03 7 33 7 1262.49 21.18 352.30 251.06 113.62 7 54 9 662.5 24.19 344.69
 103.97 11 14 9 5840.76 21.20 277.77 251.07 113.61 12 51 30 5240.8 24.21 270.15
 76.03 7 33 7 1262.49 21.18 352.30 251.06 113.62 7 54 9 662.5 24.19 344.69
 103.97 11 14 9 5840.76 21.20 277.77 251.07 113.61 12 51 30 5240.8 24.21 270.15
 110.00 10 8 1 759.20 12.02 310.52 246.00 122.24 10 20 40 159.2 16.19 303.89
 110.00 13 38 26 5392.04 30.98 247.31 254.90 105.23 15 8 18 4792.0 32.75 238.54

DIFFERENTIAL CORRECTIONS

TDE -.9949 TRA -.2732 TC3-1.0734 BAU .6052
 RDE 1.1627 RRA -.1681 RC3 1.8328 FAU .05818
 FDE-1.9197 FRA .3013 FC3-2.3632 BSP 8552
 BOE 1.5303 BRA .3208 BC3 2.1240 FSP -899

MID-COURSE EXECUTION ACCURACY

SGT 1632.2 SGR 2237.3 SG3 281.7
 RRT -.9206 RRF -.9922 RTF .9265
 SGB 2769.5 R23 .1015 R13 -.9876
 SG1 2719.4 SG2 524.4 THA 125.40

ORBIT DETERMINATION ACCURACY

ST 1240.8 SR 1445.8 SS 1168.1
 CRT -.9892 CRS 1.0000 CST -.9886
 LSA 2229.5 MSA 153.3 SSA 7.2
 EL1 1900.2 EL2 138.5 ALF 130.59

LAUNCH DATE FEB 10 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 347.164

RL 147.63 LAL .00 LOL 141.08 VL 27.834 GAL -4.76 AZL 96.94 HCA 159.84 SMA 129.70 ECC .16079 INC 6.9390 V1 30.179
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.595 GAP .85 AZP 83.48 TAL 206.30 TAP 6.14 RCA 108.85 APO 150.56 V2 34.787
 RC 98.436 GL -42.00 GP 67.61 ZAL 121.55 ZAP 94.69 ETS 15.72 ZAE 111.02 ETE 111.92 ZAC 85.35 ETC 157.51 CLP -102.39

PLANETOCENTRIC CONIC

C3 25.082 VHL 5.008 DLA -35.54 RAL 24.81 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 6.312 DPA 60.80 RAP 327.91 ECC 1.4128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.56 6 56 26 1466.18 22.58 268.90 259.19 118.21 7 20 52 5116.4 26.18 261.47
 112.44 12 24 0 5716.41 22.59 268.90 259.20 118.20 13 59 17 5116.4 26.18 261.47
 67.56 6 56 26 1466.18 22.58 268.90 259.19 118.21 7 20 52 5116.4 26.18 261.47
 112.44 12 24 0 5716.41 22.59 268.90 259.20 118.20 13 59 17 5116.4 26.18 261.47
 67.56 6 56 26 1466.18 22.58 268.90 259.19 118.21 7 20 52 5116.4 26.18 261.47
 112.44 12 24 0 5716.41 22.59 268.90 259.20 118.20 13 59 17 5116.4 26.18 261.47

DIFFERENTIAL CORRECTIONS

TDE-1.3525 TRA -.1668 TC3-1.0822 BAU .6258
 RDE 1.3879 RRA -.3109 RC3 1.5204 FAU .04690
 FDE-1.8746 FRA .3996 FC3-1.6187 BSP 9152
 BOE 1.9379 BRA .3528 BC3 1.8663 FSP -760

MID-COURSE EXECUTION ACCURACY

SGT 1903.7 SGR 2243.1 SG3 237.3
 RRT -.9379 RRF -.9934 RTF .9456
 SGB 2942.0 R23 .1060 R13 -.9885
 SG1 2897.3 SG2 511.2 THA 130.02

ORBIT DETERMINATION ACCURACY

ST 1549.3 SR 1593.8 SS 1173.5
 CRT -.9918 CRS 1.0000 CST -.9923
 LSA 2508.8 MSA 154.3 SSA 5.6
 EL1 2218.2 EL2 142.1 ALF 134.18

LAUNCH DATE FEB 10 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 353.330

RL 147.63 LAL .00 LOL 141.08 VL 27.818 GAL -4.65 AZL 98.61 HCA 162.95 SMA 129.59 ECC .16066 INC 8.6125 V1 30.179
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.581 GAP 1.19 AZP 81.76 TAL 205.64 TAP 8.59 RCA 108.77 APO 150.41 V2 34.785
 RC 100.837 GL -47.76 GP 71.59 ZAL 117.21 ZAP 95.95 ETS 22.70 ZAE 106.48 ETE 117.36 ZAC 82.54 ETC 161.44 CLP -109.16

PLANETOCENTRIC CONIC

C3 31.458 VHL 5.609 DLA -39.86 RAL 29.91 RAD 6568.3 VEL 12.362 PTH 2.23 VHP 7.229 DPA 61.82 RAP 319.49 ECC 1.5177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.68 6 41 48 1624.70 22.97 21.98 269.39 123.52 7 8 53 1024.7 27.20 14.90
 119.32 13 19 21 5670.79 22.98 265.43 269.40 123.51 14 53 51 5070.8 27.22 258.35
 60.68 6 41 48 1624.70 22.97 21.98 269.39 123.52 7 8 53 1024.7 27.20 14.90
 119.32 13 19 21 5670.79 22.98 265.43 269.40 123.51 14 53 51 5070.8 27.22 258.35
 60.68 6 41 48 1624.70 22.97 21.98 269.39 123.52 7 8 53 1024.7 27.20 14.90
 119.32 13 19 21 5670.79 22.98 265.43 269.40 123.51 14 53 51 5070.8 27.22 258.35

DIFFERENTIAL CORRECTIONS

TDE-1.8579 TRA .0196 TC3 -.9888 BAU .6322
 RDE 1.6228 RRA -.4927 RC3 1.1323 FAU .03572
 FDE-1.7947 FRA .4851 FC3 -.9831 BSP 9665
 BOE 2.4668 BRA .4931 BC3 1.5033 FSP -615

MID-COURSE EXECUTION ACCURACY

SGT 2198.4 SGR 2188.9 SG3 193.1
 RRT -.9501 RRF -.9942 RTF .9606
 SGB 3102.4 R23 .1069 R13 -.9898
 SG1 3063.4 SG2 489.9 THA 135.13

ORBIT DETERMINATION ACCURACY

ST 1898.2 SR 1669.8 SS 1151.7
 CRT -.9935 CRS .9999 CST -.9949
 LSA 2774.0 MSA 152.7 SSA 4.2
 EL1 2524.1 EL2 143.0 ALF 138.69

LAUNCH DATE FEB 10 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.799 GAL -4.52 AZL 101.01 MCA 166.05 SMA 129.46 ECC .16059 INC11.0053 V1 30.179
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.567 GAP 1.51 AZP 79.31 TAL 204.88 TAP 10.93 RCA 108.67 APO 150.25 V2 34.784
 RC 103.240 GL -53.69 GP 76.02 ZAL 112.41 ZAP 96.50 ETS 31.75 ZAE 101.43 ETE 124.56 ZAC 79.55 ETC 167.47 CLP-117.94

PLANETOCENTRIC CONIC

C3 43.100 VHL 6.565 DLA -43.98 RAL 36.13 RAD 6568.6 VEL 12.824 PTH 2.33 VHP 8.590 DPA 62.52 RAP 309.53 ECC 1.7093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.83 6 41 44 1772.40 21.65 33.81 281.82 129.26 7 11 17 1172.4 26.56 27.31
 125.17 14 9 2 5682.04 21.66 265.36 281.83 129.26 15 43 44 5082.0 26.58 258.85
 54.83 6 41 44 1772.40 21.65 33.81 281.82 129.26 7 11 17 1172.4 26.56 27.31
 125.17 14 9 2 5682.04 21.66 265.36 281.83 129.26 15 43 44 5082.0 26.58 258.85
 54.83 6 41 44 1772.40 21.65 33.81 281.82 129.26 7 11 17 1172.4 26.56 27.31
 125.17 14 9 2 5682.04 21.66 265.36 281.83 129.26 15 43 44 5082.0 26.58 258.85

DIFFERENTIAL CORRECTIONS

TDE-2.6189 TRA .3533 TC3 -.8005 BAU .6165
 RDE 1.8091 RRA -.7039 RC3 .7100 FAU .02532
 FDE-1.6933 FRA .5545 FC3 -.5085 BSP 10211
 BDE 3.1830 BRA .7876 BC3 1.0700 FSP -484

MID-COURSE EXECUTION ACCURACY

SGT 2551.9 SGR 2022.5 SG3 151.7
 RRT -.9599 RRF -.9941 RTF .9749
 SGB 3256.2 R23 .1009 R13 -.9917
 SG1 3225.1 SG2 448.7 THA 141.87

ORBIT DETERMINATION ACCURACY

ST 2289.4 SR 1599.7 SS 1107.1
 CRT -.9945 CRS .9997 CST -.9968
 LSA 3000.9 MSA 144.8 SSA 3.1
 EL1 2789.6 EL2 137.2 ALF 145.11

LAUNCH DATE FEB 10 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.778 GAL -4.38 AZL 104.72 MCA 169.11 SMA 129.31 ECC .16056 INC14.7193 V1 30.179
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.551 GAP 1.81 AZP 75.53 TAL 204.02 TAP 13.13 RCA 108.55 APO 150.08 V2 34.783
 RC 105.643 GL -59.34 GP 80.95 ZAL 107.30 ZAP 96.30 ETS 46.63 ZAE 95.59 ETE 137.44 ZAC 76.10 ETC 179.53 CLP-134.28

PLANETOCENTRIC CONIC

C3 66.930 VHL 8.181 DLA -47.33 RAL 43.51 RAD 6569.3 VEL 13.722 PTH 2.51 VHP 10.764 DPA 62.45 RAP 297.48 ECC 2.1015
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.35 6 54 33 1923.73 17.90 44.32 296.17 134.58 7 26 37 1323.7 23.41 38.53
 129.65 14 55 5 5747.81 17.91 267.89 296.19 134.58 16 30 52 5147.8 23.42 262.11
 50.35 6 54 33 1923.73 17.90 44.32 296.17 134.58 7 26 37 1323.7 23.41 38.53
 129.65 14 55 5 5747.81 17.91 267.89 296.19 134.58 16 30 52 5147.8 23.42 262.11
 50.35 6 54 33 1923.73 17.90 44.32 296.17 134.58 7 26 37 1323.7 23.41 38.53
 129.65 14 55 5 5747.81 17.91 267.89 296.19 134.58 16 30 52 5147.8 23.42 262.11

DIFFERENTIAL CORRECTIONS

TDE-3.8755 TRA 1.0249 TC3 -.5343 BAU .5472
 RDE 1.5984 RRA -.8478 RC3 .2974 FAU .01563
 FDE-1.5872 FRA .6259 FC3 -.2021 BSP 10647
 BDE 4.1921 BRA 1.3301 BC3 .6115 FSP -364

MID-COURSE EXECUTION ACCURACY

SGT 3041.8 SGR 1502.5 SG3 114.7
 RRT -.9609 RRF -.9883 RTF .9881
 SGB 3392.6 R23 .0873 R13 -.9942
 SG1 3371.8 SG2 375.3 THA 154.27

ORBIT DETERMINATION ACCURACY

ST 2732.8 SR 1150.0 SS 1049.5
 CRT -.9935 CRS .9983 CST -.9984
 LSA 3142.6 MSA 126.8 SSA 2.2
 EL1 2962.4 EL2 120.8 ALF 157.27

LAUNCH DATE FEB 10 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.755 GAL -4.21 AZL 111.24 MCA 172.09 SMA 129.15 ECC .16049 INC21.2351 V1 30.179
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.534 GAP 2.07 AZP 68.95 TAL 203.02 TAP 15.11 RCA 108.42 APO 149.88 V2 34.783
 RC 108.045 GL -63.64 GP 84.56 ZAL 102.12 ZAP 95.36 ETS 83.44 ZAE 88.22 ETE 172.22 ZAC 71.58 ETC 214.04 CLP 170.60

PLANETOCENTRIC CONIC

C3 125.191 VHL 11.189 DLA -48.89 RAL 51.52 RAD 6570.3 VEL 15.701 PTH 2.79 VHP 14.652 DPA 60.61 RAP 283.03 ECC 3.0603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.32 7 19 36 2077.97 11.52 52.49 311.27 137.86 7 54 14 1478.0 17.39 47.29
 131.68 15 33 58 5868.03 11.53 272.74 311.28 137.85 17 11 46 5268.0 17.40 267.54
 48.32 7 19 36 2077.97 11.52 52.49 311.27 137.86 7 54 14 1478.0 17.39 47.29
 131.68 15 33 58 5868.03 11.53 272.74 311.28 137.85 17 11 46 5268.0 17.40 267.54
 48.32 7 19 36 2077.97 11.52 52.49 311.27 137.86 7 54 14 1478.0 17.39 47.29
 131.68 15 33 58 5868.03 11.53 272.74 311.28 137.85 17 11 46 5268.0 17.40 267.54

DIFFERENTIAL CORRECTIONS

TDE-5.5488 TRA 2.3652 TC3 -.2020 BAU .3381
 RDE-1.4940 RRA .0489 RC3 -.0027 FAU .00609
 FDE-1.5375 FRA .7399 FC3 -.0421 BSP 11004
 BDE 5.7464 BRA 2.3657 BC3 .2020 FSP -270

MID-COURSE EXECUTION ACCURACY

SGT 3416.3 SGR 766.0 SG3 84.7
 RRT .8585 RRF .8322 RTF .9978
 SGB 3501.1 R23 -.0692 R13 .9965
 SG1 3479.8 SG2 385.6 THA 11.03

ORBIT DETERMINATION ACCURACY

ST 2894.7 SR 765.1 SS 1020.4
 CRT .9843 CRS -.9798 CST -.9997
 LSA 3160.3 MSA 134.9 SSA 1.7
 EL1 2991.2 EL2 130.5 ALF 14.61

LAUNCH DATE FEB 10 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

RL 147.63 LAL .00 LOL 141.08 VL 27.730 GAL -3.99 AZL 125.07 MCA 174.85 SMA 128.98 ECC .16018 INC35.0661 V1 30.179
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.516 GAP 2.27 AZP 55.04 TAL 201.74 TAP 16.60 RCA 108.32 APO 149.64 V2 34.784
 RC 110.446 GL -63.68 GP 77.55 ZAL 97.26 ZAP 93.78 ETS 146.68 ZAE 77.19 ETE 233.49 ZAC 64.18 ETC 276.44 CLP 107.82

PLANETOCENTRIC CONIC

C3 314.387 VHL 17.731 DLA -46.25 RAL 58.12 RAD 6571.8 VEL 20.873 PTH 3.18 VHP 22.905 DPA 54.46 RAP 266.47 ECC 6.1740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.77 7 57 54 2191.40 4.05 55.36 324.21 136.11 8 34 26 1591.4 9.79 50.16
 128.23 15 48 17 753.03 4.06 303.47 324.23 136.11 16 0 50 153.0 9.80 298.26
 51.77 7 57 54 2191.40 4.05 55.36 324.21 136.11 8 34 26 1591.4 9.79 50.16
 128.23 15 48 17 753.03 4.06 303.47 324.23 136.11 16 0 50 153.0 9.80 298.26
 51.77 7 57 54 2191.40 4.05 55.36 324.21 136.11 8 34 26 1591.4 9.79 50.16
 128.23 15 48 17 753.03 4.06 303.47 324.23 136.11 16 0 50 153.0 9.80 298.26

DIFFERENTIAL CORRECTIONS

TDE -.2641 TRA 2.0862 TC3 -.0074 BAU .4350
 RDE-8.4960 RRA 4.1742 RC3 .1032 FAU-.00811
 FDE-1.7006 FRA 1.0475 FC3 .0223 BSP 11008
 BDE 8.5001 BRA 4.6664 BC3 .1035 FSP -203

MID-COURSE EXECUTION ACCURACY

SGT 978.9 SGR 3387.6 SG3 64.0
 RRT .6411 RRF .9940 RTF .7204
 SGB 3526.2 R23 -.0669 R13 .9977
 SG1 3448.1 SG2 738.1 THA 78.99

ORBIT DETERMINATION ACCURACY

ST 304.6 SR 2807.1 SS 1125.7
 CRT .4741 CRS -.9987 CST -.5185
 LSA 3027.5 MSA 272.2 SSA .6
 EL1 2810.8 EL2 267.9 ALF 87.03

LAUNCH DATE FEB 10 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 381.998

RL 147.63 LAL .00 LOL 141.08 VL 27.702 GAL -3.58 AZL 160.95 HCA 176.78 SMA 128.79 ECC .15881 INC70.9490 V1 30.179
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.497 GAP 2.22 AZP 19.08 TAL 199.56 TAP 16.34 RCA 108.33 APO 149.24 V2 34.786
 RC 112.844 GL -50.88 GP 56.64 ZAL 93.47 ZAP 92.00 ETS 171.08 ZAE 55.67 ETE 255.53 ZAC 48.79 ETC 306.72 CLP 93.63

PLANETOCENTRIC CONIC

C31134.599 VHL 33.684 DLA -32.18 RAL 58.55 RAD 6573.0 VEL 35.438 PTH 3.52 VHP 42.770 DPA 36.54 RAP 249.82 ECC19.6726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.04 9 50 43 1963.78 -1.43 33.02 329.21 122.18 10 23 27 1363.8 3.83 26.66
 105.96 13 58 56 1168.89 -1.41 334.13 329.22 122.18 14 18 25 568.9 3.84 327.77
 74.04 9 50 43 1963.78 -1.43 33.02 329.21 122.18 10 23 27 1363.8 3.83 26.66
 105.96 13 58 56 1168.89 -1.41 334.13 329.22 122.18 14 18 25 568.9 3.84 327.77
 110.00 12 56 13 1363.19 -10.74 342.47 322.65 122.65 13 18 56 763.2 -6.35 336.12
 110.00 15 52 37 817.47 9.88 313.68 335.79 122.89 16 6 14 217.5 14.15 307.17

DIFFERENTIAL CORRECTIONS

TDE 4.8749 TRA .0808 TC3 -.0702 BAU 3.2836
 RD-11.0380 RRA 9.5158 RC3 .2048 FAU-.05429
 FDE-2.2458 FRA 2.0358 FC3 .0414 BSP 9533
 BOE12.0666 BRA 9.5162 BC3 .2165 FSP -169

MID-COURSE EXECUTION ACCURACY

SGT 954.7 SGR 3014.2 SG3 54.0
 RRT -.7569 RRF .9997 RTF -.7403
 SGB 3161.8 R23 -.0737 R13 .9973
 SG1 3103.2 SG2 606.1 TMA 104.03

ORBIT DETERMINATION ACCURACY

ST 829.4 SR 1963.7 SS 1483.0
 CRT -.9546 CRS -.9999 CST .9503
 LSA 2585.7 MSA 239.6 SSA .6
 EL1 2119.3 EL2 228.9 ALF 112.23

LAUNCH DATE FEB 10 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 392.150

RL 147.63 LAL .00 LOL 141.08 VL 27.674 GAL -4.23 AZL 34.09 HCA 183.77 SMA 128.59 ECC .16510 INC55.9142 V1 30.179
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.478 GAP 3.62 AZP 145.86 TAL 202.31 TAP 26.08 RCA 107.36 APO 149.82 V2 34.789
 RC 115.239 GL 56.90 GP -66.41 ZAL 94.95 ZAP 94.17 ETS 181.61 ZAE 68.63 ETE 98.22 ZAC 82.23 ETC 60.80 CLP 100.46

PLANETOCENTRIC CONIC

C3 744.373 VHL 27.283 DLA 66.06 RAL .27 RAD 6572.7 VEL 29.422 PTH 3.44 VHP 33.235 DPA -76.46 RAP 169.06 ECC13.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.45 14 56 37 5052.24 -1.58 244.25 270.02 23.94 16 20 49 4452.2 -7.89 241.40
 152.55 1 8 2 3326.91 -1.57 99.15 270.00 23.94 2 3 29 2726.9 -7.88 96.30
 27.45 14 56 37 5052.24 -1.58 244.25 270.02 23.94 16 20 49 4452.2 -7.89 241.40
 152.55 1 8 2 3326.91 -1.57 99.15 270.00 23.94 2 3 29 2726.9 -7.88 96.30
 27.45 14 56 37 5052.24 -1.58 244.25 270.02 23.94 16 20 49 4452.2 -7.89 241.40
 152.55 1 8 2 3326.91 -1.57 99.15 270.00 23.94 2 3 29 2726.9 -7.88 96.30

DIFFERENTIAL CORRECTIONS

TDE-2.1284 TRA 1.8243 TC3 -.0842 BAU 2.1720
 RD-13.6074 RRA 2.7122 RC3 -.2014 FAU-.03211
 FDE 2.7135 FRA -.5365 FC3 .0373 BSP 11047
 BOE13.7728 BRA 3.2686 BC3 .2183 FSP -188

MID-COURSE EXECUTION ACCURACY

SGT 1141.0 SGR 3367.9 SG3 57.5
 RRT .8085 RRF -.9998 RTF -.8034
 SGB 3556.0 R23 -.0608 R13 -.9980
 SG1 3496.6 SG2 646.8 TMA 74.13

ORBIT DETERMINATION ACCURACY

ST 529.3 SR 2888.6 SS 1653.8
 CRT .9136 CRS 1.0000 CST .9131
 LSA 3363.6 MSA 213.1 SSA 1.2
 EL1 2929.1 EL2 212.2 ALF 80.45

LAUNCH DATE FEB 10 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 397.425

RL 147.63 LAL .00 LOL 141.08 VL 27.643 GAL -3.90 AZL 58.81 HCA 186.17 SMA 128.38 ECC .16437 INC31.1930 V1 30.179
 RP 108.91 LAP -3.19 LOP 326.36 VP 37.459 GAP 3.69 AZP 121.05 TAL 200.55 TAP 26.72 RCA 107.28 APO 149.48 V2 34.792
 RC 117.630 GL 64.08 GP -79.56 ZAL 97.93 ZAP 97.50 ETS 126.69 ZAE 85.04 ETE 123.18 ZAC 94.23 ETC 87.67 CLP 136.07

PLANETOCENTRIC CONIC

C3 252.205 VHL 15.881 DLA 66.79 RAL 338.98 RAD 6571.5 VEL 19.327 PTH 3.10 VHP 18.938 DPA -75.92 RAP 94.15 ECC 5.1507
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.60 13 29 46 4954.23 -6.89 242.43 246.02 23.39 14 52 20 4354.2 -14.22 239.58
 153.40 23 41 8 3223.19 -6.88 96.38 246.00 23.39 24 34 51 2623.2 -14.21 93.53
 26.60 13 29 46 4954.23 -6.89 242.43 246.02 23.39 14 52 20 4354.2 -14.22 239.58
 153.40 23 41 8 3223.19 -6.88 96.38 246.00 23.39 24 34 51 2623.2 -14.21 93.53
 26.60 13 29 46 4954.23 -6.89 242.43 246.02 23.39 14 52 20 4354.2 -14.22 239.58
 153.40 23 41 8 3223.19 -6.88 96.38 246.00 23.39 24 34 51 2623.2 -14.21 93.53

DIFFERENTIAL CORRECTIONS

TDE 2.6898 TRA .0224 TC3 -.0156 BAU .2520
 RDE-5.9933 RRA 3.3680 RC3 -.0731 FAU-.00069
 FDE 1.5721 FRA -.6976 FC3 .0024 BSP 12291
 BOE 6.5692 BRA 3.3681 BC3 .0747 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 971.9 SGR 3772.8 SG3 73.8
 RRT -.5519 RRF -.9921 RTF .6469
 SGB 3896.0 R23 -.0880 R13 -.9953
 SG1 3812.5 SG2 802.0 TMA 98.47

ORBIT DETERMINATION ACCURACY

ST 970.4 SR 2351.8 SS 979.5
 CRT -.9169 CRS .9969 CST -.9454
 LSA 2702.0 MSA 362.3 SSA 1.6
 EL1 2518.3 EL2 361.7 ALF 111.18

LAUNCH DATE FEB 10 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 403.192

RL 147.63 LAL .00 LOL 141.08 VL 27.612 GAL -3.66 AZL 68.88 HCA 189.05 SMA 128.16 ECC .16453 INC21.1237 V1 30.179
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.439 GAP 3.89 AZP 110.88 TAL 199.20 TAP 28.24 RCA 107.08 APO 149.25 V2 34.796
 RC 120.015 GL 63.59 GP -78.29 ZAL 100.79 ZAP 101.62 ETS 273.35 ZAE 94.37 ETE 189.49 ZAC 100.22 ETC 154.96 CLP-172.87

PLANETOCENTRIC CONIC

C3 122.942 VHL 11.088 DLA 64.13 RAL 336.18 RAD 6570.3 VEL 15.629 PTH 2.78 VHP 12.984 DPA -69.09 RAP 68.69 ECC 3.0233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.71 13 25 45 4824.04 -14.02 237.20 239.24 26.73 14 46 9 4224.0 -21.13 233.77
 150.29 23 22 51 3114.83 -14.01 94.64 239.22 26.73 24 14 46 2514.8 -21.12 91.21
 29.71 13 25 45 4824.04 -14.02 237.20 239.24 26.73 14 46 9 4224.0 -21.13 233.77
 150.29 23 22 51 3114.83 -14.01 94.64 239.22 26.73 24 14 46 2514.8 -21.12 91.21
 29.71 13 25 45 4824.04 -14.02 237.20 239.24 26.73 14 46 9 4224.0 -21.13 233.77
 150.29 23 22 51 3114.83 -14.01 94.64 239.22 26.73 24 14 46 2514.8 -21.12 91.21

DIFFERENTIAL CORRECTIONS

TDE 4.2204 TRA-2.7003 TC3 -.2016 BAU .3335
 RDE -.3233 RRA .8787 RC3 .0235 FAU .01302
 FDE 1.3688 FRA -.7433 FC3 -.0917 BSP 12683
 BOE 4.2327 BRA 2.8397 BC3 .2029 FSP -323

MID-COURSE EXECUTION ACCURACY

SGT 3896.4 SGR 1055.3 SG3 99.1
 RRT -.9036 RRF -.8629 RTF .9950
 SGB 4036.8 R23 -.1114 R13 -.9924
 SG1 4012.8 SG2 438.9 TMA 166.08

ORBIT DETERMINATION ACCURACY

ST 2382.6 SR 354.1 SS 847.0
 CRT -.7869 CRS .7504 CST -.9984
 LSA 2543.5 MSA 223.6 SSA 1.9
 EL1 2398.9 EL2 217.0 ALF 173.27

LAUNCH DATE FEB 10 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 409.092

RL 147.63 LAL .00 LOL 141.08 VL 27.579 GAL -3.45 AZL 74.03 MCA 192.07 SMA 127.94 ECC .16501 INC15.9694 V1 30.179
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.419 GAP 4.13 AZP 105.63 TAL 197.93 TAP 30.00 RCA 106.83 APO 149.05 V2 34.800
 RC 122.394 GL 60.98 GP -72.23 ZAL 103.15 ZAP 106.10 ETS 298.36 ZAE 101.11 ETE 213.57 ZAC 104.14 ETC 180.08 CLP-155.31

PLANETOCENTRIC CONIC

C3 75.018 VHL 8.661 OLA 61.41 RAL 338.79 RAD 6569.5 VEL 14.013 PTH 2.56 VHP 10.031 DPA -62.70 RAP 57.04 ECC 2.2346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.93 13 43 52 4704.25 -19.97 231.30 237.38 30.61 15 2 16 4104.2 -26.79 227.16
 147.07 23 25 32 3021.08 -19.96 92.50 237.36 30.61 24 15 53 2421.1 -26.78 88.36
 32.93 13 43 52 4704.25 -19.97 231.30 237.38 30.61 15 2 16 4104.2 -26.79 227.16
 147.07 23 25 32 3021.08 -19.96 92.50 237.36 30.61 24 15 53 2421.1 -26.78 88.36
 32.93 13 43 52 4704.25 -19.97 231.30 237.38 30.61 15 2 16 4104.2 -26.79 227.16
 147.07 23 25 32 3021.08 -19.96 92.50 237.36 30.61 24 15 53 2421.1 -26.78 88.36

DIFFERENTIAL CORRECTIONS

TOE 3.1987 TRA-2.4127 TC3 -.5406 BAU .5563
 RDE 1.0308 RRA -.2714 RC3 -.1242 FAU .02369
 FDE 1.4262 FRA -.7827 FC3 -.2734 BSP 13110
 BOE 3.3607 BRA 2.4279 BC3 .5546 FSP -433

MID-COURSE EXECUTION ACCURACY

SGT 4059.1 SGR 807.5 SG3 130.6
 RRT .8834 RRF .9431 RTF .9857
 SGB 4138.6 R23 .1385 R13 .9880
 SG1 4121.8 SG2 372.6 THA 10.05

ORBIT DETERMINATION ACCURACY

ST 2340.8 SR 691.1 SS 864.8
 CRT .9616 CRS -.9860 CST -.9939
 LSA 2581.9 MSA 196.3 SSA 2.4
 EL1 2433.8 EL2 182.5 ALF 15.94

LAUNCH DATE FEB 10 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 415.010

RL 147.63 LAL .00 LOL 141.08 VL 27.545 GAL -3.24 AZL 77.13 MCA 195.15 SMA 127.71 ECC .16571 INC12.8700 V1 30.179
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.399 GAP 4.38 AZP 102.44 TAL 196.71 TAP 31.86 RCA 106.55 APO 148.87 V2 34.805
 RC 124.766 GL 57.84 GP -65.94 ZAL 104.97 ZAP 110.72 ETS 305.23 ZAE 106.50 ETE 218.89 ZAC 107.15 ETC 186.61 CLP-150.21

PLANETOCENTRIC CONIC

C3 52.357 VHL 7.236 OLA 58.89 RAL 342.73 RAD 6568.9 VEL 13.180 PTH 2.41 VHP 8.362 DPA -56.72 RAP 50.03 ECC 1.8617
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.94 14 7 7 4603.62 -24.36 225.39 236.88 34.55 15 23 51 4003.6 -30.85 220.54
 144.06 23 33 40 2948.19 -24.35 90.27 236.87 34.55 24 22 48 2348.2 -30.84 85.41
 35.94 14 7 7 4603.62 -24.36 225.39 236.88 34.55 15 23 51 4003.6 -30.85 220.54
 144.06 23 33 40 2948.19 -24.35 90.27 236.87 34.55 24 22 48 2348.2 -30.84 85.41
 35.94 14 7 7 4603.62 -24.36 225.39 236.88 34.55 15 23 51 4003.6 -30.85 220.54
 144.06 23 33 40 2948.19 -24.35 90.27 236.87 34.55 24 22 48 2348.2 -30.84 85.41

DIFFERENTIAL CORRECTIONS

TOE 2.4474 TRA-2.3137 TC3-1.0917 BAU .8120
 RDE .9946 RRA -.5637 RC3 -.3923 FAU .04136
 FDE 1.3659 FRA -.9774 FC3 -.6839 BSP 19882
 BOE 2.6418 BRA 2.3814 BC3 1.1601 FSP -909

MID-COURSE EXECUTION ACCURACY

SGT 4338.9 SGR 1299.7 SG3 181.1
 RRT .9730 RRF .9941 RTF .9865
 SGB 4529.3 R23 .1299 R13 .9891
 SG1 4520.2 SG2 287.8 THA 16.32

ORBIT DETERMINATION ACCURACY

ST 2211.2 SR 829.3 SS 846.5
 CRT .9831 CRS -.9971 CST -.9941
 LSA 2503.8 MSA 157.9 SSA 3.1
 EL1 2357.3 EL2 142.4 ALF 20.32

LAUNCH DATE FEB 10 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 421.000

RL 147.63 LAL .00 LOL 141.08 VL 27.510 GAL -3.02 AZL 79.20 MCA 198.26 SMA 127.47 ECC .16647 INC10.8016 V1 30.179
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.379 GAP 4.63 AZP 100.27 TAL 195.42 TAP 33.67 RCA 106.25 APO 148.69 V2 34.811
 RC 127.128 GL 54.70 GP -60.08 ZAL 106.19 ZAP 115.25 ETS 308.00 ZAE 110.96 ETE 219.61 ZAC 109.70 ETC 188.71 CLP-148.78

PLANETOCENTRIC CONIC

C3 39.794 VHL 6.308 OLA 56.69 RAL 346.93 RAD 6568.5 VEL 12.695 PTH 2.31 VHP 7.342 DPA -51.11 RAP 45.49 ECC 1.6549
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.59 14 30 56 4520.99 -27.46 219.87 236.98 38.23 15 46 17 3921.0 -33.61 214.35
 141.41 23 43 25 2893.17 -27.44 88.15 236.96 38.23 24 31 38 2293.2 -33.60 82.64
 38.59 14 30 56 4520.99 -27.46 219.87 236.98 38.23 15 46 17 3921.0 -33.61 214.35
 141.41 23 43 25 2893.17 -27.44 88.15 236.96 38.23 24 31 38 2293.2 -33.60 82.64
 38.59 14 30 56 4520.99 -27.46 219.87 236.98 38.23 15 46 17 3921.0 -33.61 214.35
 141.41 23 43 25 2893.17 -27.44 88.15 236.96 38.23 24 31 38 2293.2 -33.60 82.64

DIFFERENTIAL CORRECTIONS

TOE 2.4495 TRA-1.8343 TC3-1.3106 BAU .7283
 RDE 1.0338 RRA -.3635 RC3 -.3955 FAU .04128
 FDE 1.6405 FRA -.7703 FC3 -.8980 BSP 13289
 BOE 2.6587 BRA 1.8700 BC3 1.3690 FSP -637

MID-COURSE EXECUTION ACCURACY

SGT 4109.6 SGR 1221.5 SG3 195.6
 RRT .9439 RRF .9872 RTF .9730
 SGB 4287.2 R23 .1832 R13 .9780
 SG1 4269.6 SG2 388.3 THA 15.81

ORBIT DETERMINATION ACCURACY

ST 2404.3 SR 956.2 SS 976.0
 CRT .9804 CRS -.9981 CST -.9906
 LSA 2758.0 MSA 202.5 SSA 3.8
 EL1 2581.5 EL2 175.7 ALF 21.40

LAUNCH DATE FEB 10 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 426.963

RL 147.63 LAL .00 LOL 141.08 VL 27.474 GAL -2.79 AZL 80.68 MCA 201.39 SMA 127.23 ECC .16739 INC 9.3188 V1 30.179
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.359 GAP 4.89 AZP 98.69 TAL 194.13 TAP 35.52 RCA 105.93 APO 148.53 V2 34.818
 RC 129.481 GL 51.69 GP -54.70 ZAL 106.94 ZAP 119.63 ETS 309.43 ZAE 114.65 ETE 218.57 ZAC 111.94 ETC 189.22 CLP-148.82

PLANETOCENTRIC CONIC

C3 32.068 VHL 5.663 OLA 54.73 RAL 351.07 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 6.693 DPA -45.86 RAP 42.41 ECC 1.5278
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.99 14 54 5 4452.71 -29.57 214.79 237.42 41.60 16 8 18 3852.7 -35.40 208.70
 139.01 23 53 18 2852.44 -29.56 86.29 237.41 41.59 24 40 51 2252.4 -35.39 80.20
 40.99 14 54 5 4452.71 -29.57 214.79 237.42 41.60 16 8 18 3852.7 -35.40 208.70
 139.01 23 53 18 2852.44 -29.56 86.29 237.41 41.59 24 40 51 2252.4 -35.39 80.20
 40.99 14 54 5 4452.71 -29.57 214.79 237.42 41.60 16 8 18 3852.7 -35.40 208.70
 139.01 23 53 18 2852.44 -29.56 86.29 237.41 41.59 24 40 51 2252.4 -35.39 80.20

DIFFERENTIAL CORRECTIONS

TDE 2.2902 TRA-1.6524 TC3-1.7472 BAU .7778
 RDE .9142 RRA -.2996 RC3 -.4888 FAU .04852
 FDE 1.6976 FRA -.7218 FC3-1.3100 BSP 13627
 BOE 2.4659 BRA 1.6794 BC3 1.8143 FSP -741

MID-COURSE EXECUTION ACCURACY

SGT 4203.4 SGR 1199.0 SG3 224.5
 RRT .9442 RRF .9867 RTF .9685
 SGB 4371.1 R23 .1962 R13 .9735
 SG1 4354.4 SG2 381.1 THA 15.19

ORBIT DETERMINATION ACCURACY

ST 2475.3 SR 938.4 SS 1017.5
 CRT .9820 CRS -.9988 CST -.9900
 LSA 2829.0 MSA 200.0 SSA 4.7
 EL1 2642.0 EL2 166.1 ALF 20.50

LAUNCH DATE FEB 10 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 432.921

RL 147.63 LAL .00 LOL 141.08 VL 27.438 GAL -2.56 AZL 81.80 HCA 204.52 SMA 126.99 ECC .16843 INC 8.1992 V1 30.179
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.338 GAP 5.15 AZP 97.47 TAL 192.83 TAP 37.35 RCA 105.60 APO 148.38 V2 34.825
 RC 131.823 GL 48.87 GP -49.85 ZAL 107.24 ZAP 123.75 ETS 310.38 ZAE 117.67 ETE 216.80 ZAC 113.99 ETC 189.10 CLP-149.50

PLANETOCENTRIC CONIC

C3 26.933 VHL 5.190 DLA 53.01 RAL 355.11 RAD 6568.1 VEL 12.178 PTH 2.19 VHP 6.273 DPA -40.99 RAP 40.35 ECC 1.4432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.11 15 16 21 4395.68 -31.01 210.23 238.20 44.58 16 29 37 3795.7 -36.53 203.66
 136.89 0 7 11 2822.14 -31.00 84.70 238.19 44.58 0 54 13 2222.1 -36.51 78.14
 43.11 15 16 21 4395.68 -31.01 210.23 238.20 44.58 16 29 37 3795.7 -36.53 203.66
 136.89 0 7 11 2822.14 -31.00 84.70 238.19 44.58 0 54 13 2222.1 -36.51 78.14
 43.11 15 16 21 4395.68 -31.01 210.23 238.20 44.58 16 29 37 3795.7 -36.53 203.66
 136.89 0 7 11 2822.14 -31.00 84.70 238.19 44.58 0 54 13 2222.1 -36.51 78.14

DIFFERENTIAL CORRECTIONS

TDE 2.1818 TRA-1.4967 TC3-2.2014 BAU .8171
 RDE .8035 RRA -2.358 RC3 -.5509 FAU .05423
 FDE 1.7154 FRA -.6454 FC3-1.7433 BSP 13978
 BOE 2.3250 BRA 1.5152 BC3 2.2693 FSP -830

MID-COURSE EXECUTION ACCURACY

SGT 4309.0 SGR 1140.6 SG3 248.4
 RRT .9423 RRF .9842 RTF .9647
 SGB 4457.4 R23 .2042 R13 .9692
 SG1 4442.0 SG2 370.3 THA 14.11

ORBIT DETERMINATION ACCURACY

ST 2546.7 SR 896.7 SS 1044.7
 CRT .9830 CRS -.9992 CST -.9896
 LSA 2888.4 MSA 196.7 SSA 5.6
 EL1 2695.5 EL2 155.4 ALF 19.16

LAUNCH DATE FEB 10 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 438.874

RL 147.63 LAL .00 LOL 141.08 VL 27.401 GAL -2.32 AZL 82.68 HCA 207.67 SMA 126.74 ECC .16959 INC 7.3196 V1 30.179
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.318 GAP 5.41 AZP 96.49 TAL 191.50 TAP 39.16 RCA 105.25 APO 148.24 V2 34.833
 RC 134.153 GL 46.24 GP -45.50 ZAL 107.11 ZAP 127.59 ETS 311.11 ZAE 120.13 ETE 214.70 ZAC 115.92 ETC 188.70 CLP-150.49

PLANETOCENTRIC CONIC

C3 23.322 VHL 4.829 DLA 51.52 RAL 359.06 RAD 6567.9 VEL 12.029 PTH 2.15 VHP 6.002 DPA -36.52 RAP 39.03 ECC 1.3838
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.97 15 37 45 4347.52 -31.99 206.18 239.32 47.19 16 50 12 3747.5 -37.21 199.23
 135.03 0 17 19 2799.39 -31.97 83.37 239.30 47.18 1 3 58 2199.4 -37.20 76.43
 44.97 15 37 45 4347.52 -31.99 206.18 239.32 47.19 16 50 12 3747.5 -37.21 199.23
 135.03 0 17 19 2799.39 -31.97 83.37 239.30 47.18 1 3 58 2199.4 -37.20 76.43
 44.97 15 37 45 4347.52 -31.99 206.18 239.32 47.19 16 50 12 3747.5 -37.21 199.23
 135.03 0 17 19 2799.39 -31.97 83.37 239.30 47.18 1 3 58 2199.4 -37.20 76.43

DIFFERENTIAL CORRECTIONS

TDE 2.1067 TRA-1.3514 TC3-2.6604 BAU .8492
 RDE .7103 RRA -.1782 RC3 -.5833 FAU .05822
 FDE 1.7032 FRA -.5441 FC3-2.1612 BSP 14259
 BOE 2.2232 BRA 1.3632 BC3 2.7236 FSP -893

MID-COURSE EXECUTION ACCURACY

SGT 4414.8 SGR 1069.2 SG3 266.5
 RRT .9385 RRF .9798 RTF .9610
 SGB 4542.5 R23 .2081 R13 .9649
 SG1 4528.2 SG2 359.9 THA 12.89

ORBIT DETERMINATION ACCURACY

ST 2617.5 SR 849.0 SS 1060.8
 CRT .9839 CRS -.9994 CST -.9892
 LSA 2942.7 MSA 193.4 SSA 6.6
 EL1 2747.9 EL2 144.6 ALF 17.75

LAUNCH DATE FEB 10 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 444.817

RL 147.63 LAL .00 LOL 141.08 VL 27.363 GAL -2.07 AZL 83.39 HCA 210.82 SMA 126.49 ECC .17087 INC 6.6067 V1 30.179
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.299 GAP 5.67 AZP 95.68 TAL 190.14 TAP 40.96 RCA 104.88 APO 148.11 V2 34.841
 RC 136.471 GL 43.79 GP -41.63 ZAL 106.62 ZAP 131.12 ETS 311.75 ZAE 122.10 ETE 212.50 ZAC 117.78 ETC 188.18 CLP-151.62

PLANETOCENTRIC CONIC

C3 20.673 VHL 4.547 DLA 50.22 RAL 2.96 RAD 6567.8 VEL 11.919 PTH 2.12 VHP 5.835 DPA -32.43 RAP 38.28 ECC 1.3402
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.61 15 58 29 4306.35 -32.64 202.60 240.76 49.44 17 10 15 3706.3 -37.61 195.34
 133.39 0 27 42 2782.26 -32.63 82.28 240.75 49.43 1 14 5 2182.3 -37.60 75.03
 46.61 15 58 29 4306.35 -32.64 202.60 240.76 49.44 17 10 15 3706.3 -37.61 195.34
 133.39 0 27 42 2782.26 -32.63 82.28 240.75 49.43 1 14 5 2182.3 -37.60 75.03
 46.61 15 58 29 4306.35 -32.64 202.60 240.76 49.44 17 10 15 3706.3 -37.61 195.34
 133.39 0 27 42 2782.26 -32.63 82.28 240.75 49.43 1 14 5 2182.3 -37.60 75.03

DIFFERENTIAL CORRECTIONS

TDE 2.0500 TRA-1.2134 TC3-3.1224 BAU .8785
 RDE .6324 RRA -.1307 RC3 -.5946 FAU .06078
 FDE 1.6636 FRA -.4304 FC3-2.5453 BSP 14571
 BOE 2.1453 BRA 1.2204 BC3 3.1785 FSP -940

MID-COURSE EXECUTION ACCURACY

SGT 4521.9 SGR 996.9 SG3 279.6
 RRT .9338 RRF .9735 RTF .9577
 SGB 4630.5 R23 .2064 R13 .9611
 SG1 4617.3 SG2 349.3 THA 11.70

ORBIT DETERMINATION ACCURACY

ST 2682.3 SR 800.9 SS 1065.1
 CRT .9848 CRS -.9996 CST -.9888
 LSA 2989.1 MSA 189.6 SSA 7.7
 EL1 2796.1 EL2 133.3 ALF 16.42

LAUNCH DATE FEB 10 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 450.750

RL 147.63 LAL .00 LOL 141.08 VL 27.325 GAL -1.81 AZL 83.99 HCA 213.98 SMA 126.24 ECC .17227 INC 6.0141 V1 30.179
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.279 GAP 5.92 AZP 94.99 TAL 188.76 TAP 42.74 RCA 104.50 APO 147.99 V2 34.850
 RC 138.775 GL 41.47 GP -38.21 ZAL 105.78 ZAP 134.35 ETS 312.31 ZAE 123.67 ETE 210.31 ZAC 119.60 ETC 187.64 CLP-152.83

PLANETOCENTRIC CONIC

C3 18.668 VHL 4.321 DLA 49.09 RAL 6.86 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 5.740 DPA -28.70 RAP 37.97 ECC 1.3072
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.06 16 18 43 4270.93 -33.07 199.44 242.53 51.39 17 29 54 3670.9 -37.81 191.95
 131.94 0 38 32 2769.28 -33.06 81.39 242.52 51.38 1 24 41 2169.3 -37.80 73.90
 48.06 16 18 43 4270.93 -33.07 199.44 242.53 51.39 17 29 54 3670.9 -37.81 191.95
 131.94 0 38 32 2769.28 -33.06 81.39 242.52 51.38 1 24 41 2169.3 -37.80 73.90
 48.06 16 18 43 4270.93 -33.07 199.44 242.53 51.39 17 29 54 3670.9 -37.81 191.95
 131.94 0 38 32 2769.28 -33.06 81.39 242.52 51.38 1 24 41 2169.3 -37.80 73.90

DIFFERENTIAL CORRECTIONS

TDE 2.0097 TRA-1.0737 TC3-3.5727 BAU .9036
 RDE .5697 RRA -.0904 RC3 -.5862 FAU .06186
 FDE 1.6084 FRA -.3050 FC3-2.8686 BSP 14790
 BOE 2.0888 BRA 1.0775 BC3 3.6204 FSP -961

MID-COURSE EXECUTION ACCURACY

SGT 4621.8 SGR 927.8 SG3 287.5
 RRT .9270 RRF .9651 RTF .9544
 SGB 4714.0 R23 .2013 R13 .9572
 SG1 4701.6 SG2 342.0 THA 10.60

ORBIT DETERMINATION ACCURACY

ST 2745.2 SR 757.6 SS 1062.4
 CRT .9859 CRS -.9998 CST -.9883
 LSA 3033.8 MSA 186.1 SSA 8.8
 EL1 2845.2 EL2 122.2 ALF 15.25

LAUNCH DATE FEB 10 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.286 GAL -1.54 AZL 84.49 HCA 217.14 SMA 125.99 ECC .17379 INC 5.5109 V1 30.179
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.260 GAP 6.18 AZP 94.40 TAL 187.36 TAP 44.50 RCA 104.09 APO 147.89 V2 34.860
 RC 141.067 GL 39.28 GP -35.18 ZAL 104.63 ZAP 137.30 ETS 312.81 ZAE 124.90 ETE 208.22 ZAC 121.41 ETC 187.11 CLP-154.05

PLANETOCENTRIC CONIC
 C3 17.116 VHL 4.137 CLA 48.10 RAL 10.77 RAD 6567.7 VEL 11.769 PTH 2.08 VHP 5.698 DPA -25.29 RAP 38.02 ECC 1.2817
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.35 16 38 40 4240.17 -33.33 196.65 244.61 53.07 17 49 20 3640.2 -37.88 188.97
 130.65 0 49 49 2759.62 -33.32 80.69 244.60 53.06 1 35 49 2159.6 -37.87 73.01
 49.35 16 38 40 4240.17 -33.33 196.65 244.61 53.07 17 49 20 3640.2 -37.88 188.97
 130.65 0 49 49 2759.62 -33.32 80.69 244.60 53.06 1 35 49 2159.6 -37.87 73.01
 49.35 16 38 40 4240.17 -33.33 196.65 244.61 53.07 17 49 20 3640.2 -37.88 188.97
 130.65 0 49 49 2759.62 -33.32 80.69 244.60 53.06 1 35 49 2159.6 -37.87 73.01

DIFFERENTIAL CORRECTIONS
 TDE 1.9749 TRA -.9291 TC3-4.0200 BAU .9291 SGT 4724.1 SGR 866.5 SG3 292.0 ST 2798.2 SR 718.3 SS 1050.1
 RDE .5179 RRA -.0588 RC3 -.5689 FAU .06208 RRT .9196 RRF .9545 RTF .9518 CRT .9873 CRS -.9999 CST -.9878
 FDE 1.5369 FRA -.1821 FC3-3.1402 BSP 15105 SGB 4802.9 R23 .1905 R13 .9541 LSA 3068.4 MSA 181.9 SSA 10.0
 BDE 2.0417 BRA .9386 BC3 4.0601 FSP -977 SG1 4791.2 SG2 335.7 THA 9.62 EL1 2886.8 EL2 110.7 ALF 14.24

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 10 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.248 GAL -1.26 AZL 84.92 HCA 220.30 SMA 125.74 ECC .17546 INC 5.0759 V1 30.179
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.241 GAP 6.45 AZP 93.88 TAL 185.93 TAP 46.24 RCA 103.68 APO 147.80 V2 34.870
 RC 143.344 GL 37.19 GP -32.51 ZAL 103.19 ZAP 140.00 ETS 313.23 ZAE 125.87 ETE 206.27 ZAC 123.22 ETC 186.60 CLP-155.28

PLANETOCENTRIC CONIC
 C3 15.899 VHL 3.987 CLA 47.20 RAL 14.74 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 5.697 DPA -22.18 RAP 38.36 ECC 1.2617
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.51 16 58 30 4213.29 -33.48 194.17 247.00 54.54 18 8 44 3613.3 -37.85 186.34
 129.49 1 1 36 2752.72 -33.47 80.15 246.99 54.53 1 47 29 2152.7 -37.84 72.31
 50.51 16 58 30 4213.29 -33.48 194.17 247.00 54.54 18 8 44 3613.3 -37.85 186.34
 129.49 1 1 36 2752.72 -33.47 80.15 246.99 54.53 1 47 29 2152.7 -37.84 72.31
 50.51 16 58 30 4213.29 -33.48 194.17 247.00 54.54 18 8 44 3613.3 -37.85 186.34
 129.49 1 1 36 2752.72 -33.47 80.15 246.99 54.53 1 47 29 2152.7 -37.84 72.31

DIFFERENTIAL CORRECTIONS
 TDE 1.9448 TRA -.7978 TC3-4.4556 BAU .9541 SGT 4825.1 SGR 813.1 SG3 293.6 ST 2842.0 SR 683.9 SS 1030.4
 RDE .4756 RRA -.0335 RC3 -.5452 FAU .06159 RRT .9110 RRF .9417 RTF .9497 CRT .9889 CRS -.9997 CST -.9872
 FDE 1.4555 FRA -.0625 FC3-3.3539 BSP 15441 SGB 4893.1 R23 .1753 R13 .9516 LSA 3094.3 MSA 177.2 SSA 11.2
 BDE 2.0021 BRA .7985 BC3 4.4888 FSP -985 SG1 4881.9 SG2 331.3 THA 8.77 EL1 2921.4 EL2 98.9 ALF 13.40

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 10 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.209 GAL -.97 AZL 85.31 HCA 223.47 SMA 125.49 ECC .17726 INC 4.6939 V1 30.179
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.222 GAP 6.71 AZP 93.41 TAL 184.49 TAP 47.96 RCA 103.24 APO 147.73 V2 34.880
 RC 145.608 GL 35.17 GP -30.14 ZAL 101.49 ZAP 142.47 ETS 313.57 ZAE 126.62 ETE 204.47 ZAC 125.05 ETC 186.12 CLP-156.49

PLANETOCENTRIC CONIC
 C3 14.938 VHL 3.865 CLA 46.39 RAL 18.77 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 5.726 DPA -19.33 RAP 38.93 ECC 1.2458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.58 17 18 24 4189.64 -33.52 191.95 249.67 55.82 18 28 14 3589.6 -37.73 184.00
 128.42 1 13 53 2748.29 -33.51 79.76 249.66 55.81 1 59 41 2148.3 -37.72 71.81
 51.58 17 18 24 4189.64 -33.52 191.95 249.67 55.82 18 28 14 3589.6 -37.73 184.00
 128.42 1 13 53 2748.29 -33.51 79.76 249.66 55.81 1 59 41 2148.3 -37.72 71.81
 51.58 17 18 24 4189.64 -33.52 191.95 249.67 55.82 18 28 14 3589.6 -37.73 184.00
 128.42 1 13 53 2748.29 -33.51 79.76 249.66 55.81 1 59 41 2148.3 -37.72 71.81

DIFFERENTIAL CORRECTIONS
 TDE 1.9195 TRA -.6526 TC3-4.8654 BAU .9771 SGT 4920.3 SGR 767.4 SG3 292.5 ST 2878.7 SR 655.5 SS 1006.7
 RDE .4421 RRA -.0121 RC3 -.5154 FAU .06038 RRT .9004 RRF .9263 RTF .9479 CRT .9907 CRS -.9993 CST -.9865
 FDE 1.3714 FRA .0553 FC3-3.4995 BSP 15731 SGB 4979.8 R23 .1586 R13 .9494 LSA 3114.5 MSA 172.8 SSA 12.5
 BDE 1.9697 BRA .6528 BC3 4.8926 FSP -980 SG1 4968.8 SG2 330.6 THA 8.03 EL1 2951.1 EL2 87.0 ALF 12.72

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 10 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC
 RL 147.63 LAL .00 LOL 141.08 VL 27.169 GAL -.66 AZL 85.65 HCA 226.64 SMA 125.23 ECC .17922 INC 4.3539 V1 30.179
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.203 GAP 6.98 AZP 92.99 TAL 183.03 TAP 49.67 RCA 102.79 APO 147.68 V2 34.891
 RC 147.857 GL 33.21 GP -28.05 ZAL 99.55 ZAP 144.73 ETS 313.83 ZAE 127.22 ETE 202.83 ZAC 126.90 ETC 185.68 CLP-157.68

PLANETOCENTRIC CONIC
 C3 14.183 VHL 3.766 CLA 45.63 RAL 22.88 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 5.780 DPA -16.71 RAP 39.71 ECC 1.2334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.59 17 38 31 4168.63 -33.47 189.94 252.61 56.96 18 48 0 3568.6 -37.54 181.90
 127.41 1 26 34 2746.27 -33.45 79.53 252.60 56.94 2 12 21 2146.3 -37.53 71.49
 52.59 17 38 31 4168.63 -33.47 189.94 252.61 56.96 18 48 0 3568.6 -37.54 181.90
 127.41 1 26 34 2746.27 -33.45 79.53 252.60 56.94 2 12 21 2146.3 -37.53 71.49
 52.59 17 38 31 4168.63 -33.47 189.94 252.61 56.96 18 48 0 3568.6 -37.54 181.90
 127.41 1 26 34 2746.27 -33.45 79.53 252.60 56.94 2 12 21 2146.3 -37.53 71.49

DIFFERENTIAL CORRECTIONS
 TDE 1.8908 TRA -.5049 TC3-5.2516 BAU 1.0000 SGT 5012.8 SGR 728.1 SG3 289.5 ST 2898.0 SR 630.2 SS 974.6
 RDE .4141 RRA .0050 RC3 -.4841 FAU .05879 RRT .8886 RRF .9086 RTF .9468 CRT .9926 CRS -.9985 CST -.9858
 FDE 1.2797 FRA .1638 FC3-3.5886 BSP 16067 SGB 5065.4 R23 .1386 R13 .9480 LSA 3117.2 MSA 167.7 SSA 13.8
 BDE 1.9357 BRA .5050 BC3 5.2739 FSP -973 SG1 5054.6 SG2 331.2 THA 7.39 EL1 2964.7 EL2 74.7 ALF 12.19

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 10 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 480.231

RL 147.63 LAL .00 LOL 141.08 VL 27.130 GAL -.34 AZL 85.95 MCA 229.81 SMA 124.98 ECC .18134 INC 4.0475 V1 30.179
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.185 GAP 7.25 AZP 92.61 TAL 181.55 TAP 51.36 RCA 102.32 APO 147.64 V2 34.902
 RC 150.092 GL 31.28 GP -26.19 ZAL 97.39 ZAP 146.81 ETS 314.00 ZAE 127.68 ETE 201.34 ZAC 128.78 ETC 185.28 CLP-158.85

PLANETOCENTRIC CONIC

C3 13.600 VHL 3.688 DLA 44.89 RAL 27.08 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 5.854 DPA -14.30 RAP 40.67 ECC 1.2238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.58 17 58 58 4149.79 -33.32 188.09 255.80 57.97 19 8 8 3549.8 -37.28 179.98
 126.42 1 39 35 2746.70 -33.31 79.46 255.79 57.96 2 25 22 2146.7 -37.27 71.35
 53.58 17 58 58 4149.79 -33.32 188.09 255.80 57.97 19 8 8 3549.8 -37.28 179.98
 126.42 1 39 35 2746.70 -33.31 79.46 255.79 57.96 2 25 22 2146.7 -37.27 71.35
 53.58 17 58 58 4149.79 -33.32 188.09 255.80 57.97 19 8 8 3549.8 -37.28 179.98
 126.42 1 39 35 2746.70 -33.31 79.46 255.79 57.96 2 25 22 2146.7 -37.27 71.35

DIFFERENTIAL CORRECTIONS

TDE 1.8676 TRA -.3445 TC3-5.5924 BAU 1.0201
 RDE .3935 RRA .0215 RC3 -.4498 FAU .05671
 FDE 1.1951 FRA .2747 FC3-3.6100 BSP 16338
 BDE 1.9086 BRA .3452 BC3 5.6105 FSP -958

MID-COURSE EXECUTION ACCURACY

SGT 5099.4 SGR 697.2 SG3 285.3
 RRT .8739 RRF .8893 RTF .9453
 SGB 5146.8 R23 .1225 R13 .9463
 SG1 5135.8 SG2 336.5 THA 6.84

ORBIT DETERMINATION ACCURACY

ST 2913.0 SR 611.6 SS 944.4
 CRT .9946 CRS -.9969 CST -.9848
 LSA 3118.4 MSA 164.5 SSA 15.1
 EL1 2975.9 EL2 62.4 ALF 11.80

LAUNCH DATE FEB 10 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 486.087

RL 147.63 LAL .00 LOL 141.08 VL 27.090 GAL -.01 AZL 86.23 MCA 232.99 SMA 124.73 ECC .18363 INC 3.7683 V1 30.179
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.167 GAP 7.53 AZP 92.27 TAL 180.06 TAP 53.05 RCA 101.82 APO 147.63 V2 34.914
 RC 152.312 GL 29.58 GP -24.54 ZAL 95.02 ZAP 148.73 ETS 314.06 ZAE 128.04 ETE 200.01 ZAC 130.70 ETC 184.89 CLP-159.98

PLANETOCENTRIC CONIC

C3 13.167 VHL 3.629 DLA 44.16 RAL 31.35 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 5.945 DPA -12.07 RAP 41.77 ECC 1.2167
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.58 18 19 50 4132.67 -33.08 186.35 259.22 58.90 19 28 43 3532.7 -36.93 178.19
 125.42 1 52 47 2749.76 -33.07 79.56 259.22 58.88 2 38 36 2149.8 -36.92 71.41
 54.58 18 19 50 4132.67 -33.08 186.35 259.22 58.90 19 28 43 3532.7 -36.93 178.19
 125.42 1 52 47 2749.76 -33.07 79.56 259.22 58.88 2 38 36 2149.8 -36.92 71.41
 54.58 18 19 50 4132.67 -33.08 186.35 259.22 58.90 19 28 43 3532.7 -36.93 178.19
 125.42 1 52 47 2749.76 -33.07 79.56 259.22 58.88 2 38 36 2149.8 -36.92 71.41

DIFFERENTIAL CORRECTIONS

TDE 1.6908 TRA -.1499 TC3-5.9373 BAU 1.0479
 RDE .3320 RRA .0443 RC3 -.4320 FAU .05557
 FDE .8896 FRA .4192 FC3-3.6539 BSP 17741
 BDE 1.7231 BRA .1563 BC3 5.9530 FSP -1104

MID-COURSE EXECUTION ACCURACY

SGT 5079.7 SGR 618.5 SG3 271.2
 RRT .8651 RRF .8537 RTF .9326
 SGB 5117.2 R23 .0875 R13 .9331
 SG1 5107.9 SG2 308.5 THA 6.04

ORBIT DETERMINATION ACCURACY

ST 2674.7 SR 525.0 SS 736.5
 CRT .9952 CRS -.9897 CST -.9733
 LSA 2818.5 MSA 167.8 SSA 16.9
 EL1 2725.3 EL2 50.2 ALF 11.06

LAUNCH DATE FEB 10 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 491.926

RL 147.63 LAL .00 LOL 141.08 VL 27.051 GAL .33 AZL 86.49 MCA 236.17 SMA 124.48 ECC .18610 INC 3.5114 V1 30.179
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.150 GAP 7.81 AZP 91.96 TAL 178.55 TAP 54.72 RCA 101.31 APO 147.64 V2 34.926
 RC 154.516 GL 27.51 GP -23.07 ZAL 92.48 ZAP 150.50 ETS 314.01 ZAE 128.33 ETE 198.81 ZAC 132.64 ETC 184.53 CLP-161.10

PLANETOCENTRIC CONIC

C3 12.869 VHL 3.587 DLA 43.40 RAL 35.68 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 6.050 DPA -9.99 RAP 43.01 ECC 1.2118
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.62 18 41 13 4116.85 -32.75 184.69 262.86 59.75 19 49 50 3516.9 -36.49 176.50
 124.38 2 5 58 2755.71 -32.73 79.86 262.85 59.73 2 51 54 2155.7 -36.48 71.68
 55.62 18 41 13 4116.85 -32.75 184.69 262.86 59.75 19 49 50 3516.9 -36.49 176.50
 124.38 2 5 58 2755.71 -32.73 79.86 262.85 59.73 2 51 54 2155.7 -36.48 71.68
 55.62 18 41 13 4116.85 -32.75 184.69 262.86 59.75 19 49 50 3516.9 -36.49 176.50
 124.38 2 5 58 2755.71 -32.73 79.86 262.85 59.73 2 51 54 2155.7 -36.48 71.68

DIFFERENTIAL CORRECTIONS

TDE 1.7965 TRA -.0098 TC3-6.1493 BAU 1.0600
 RDE .3622 RRA .0474 RC3 -.3855 FAU .05214
 FDE 1.0126 FRA .4676 FC3-3.5075 BSP 16854
 BDE 1.8326 BRA .0484 BC3 6.1614 FSP -910

MID-COURSE EXECUTION ACCURACY

SGT 5262.9 SGR 649.6 SG3 273.3
 RRT .8417 RRF .8462 RTF .9444
 SGB 5302.9 R23 .0885 R13 .9450
 SG1 5291.4 SG2 348.9 THA 5.96

ORBIT DETERMINATION ACCURACY

ST 2872.3 SR 579.4 SS 861.6
 CRT .9979 CRS -.9905 CST -.9819
 LSA 3050.0 MSA 158.2 SSA 17.9
 EL1 2929.9 EL2 36.7 ALF 11.38

LAUNCH DATE FEB 10 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 497.750

RL 147.63 LAL .00 LOL 141.08 VL 27.011 GAL .69 AZL 86.73 MCA 239.35 SMA 124.23 ECC .18877 INC 3.2728 V1 30.179
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.133 GAP 8.10 AZP 91.67 TAL 177.03 TAP 56.38 RCA 100.78 APO 147.68 V2 34.938
 RC 156.704 GL 25.64 GP -21.76 ZAL 89.78 ZAP 152.15 ETS 313.85 ZAE 128.56 ETE 197.73 ZAC 134.62 ETC 184.18 CLP-162.18

PLANETOCENTRIC CONIC

C3 12.698 VHL 3.563 DLA 42.61 RAL 40.06 RAD 6567.5 VEL 11.579 PTH 2.03 VHP 6.168 DPA -8.06 RAP 44.36 ECC 1.2090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.72 19 3 10 4101.90 -32.30 183.05 266.66 60.54 20 11 32 3501.9 -35.95 174.86
 123.28 2 18 57 2764.91 -32.29 80.37 266.65 60.53 3 5 2 2164.9 -35.94 72.18
 56.72 19 3 10 4101.90 -32.30 183.05 266.66 60.54 20 11 32 3501.9 -35.95 174.86
 123.28 2 18 57 2764.91 -32.29 80.37 266.65 60.53 3 5 2 2164.9 -35.94 72.18
 56.72 19 3 10 4101.90 -32.30 183.05 266.66 60.54 20 11 32 3501.9 -35.95 174.86
 123.28 2 18 57 2764.91 -32.29 80.37 266.65 60.53 3 5 2 2164.9 -35.94 72.18

DIFFERENTIAL CORRECTIONS

TDE 1.7519 TRA .1700 TC3-6.3411 BAU 1.0781
 RDE .3516 RRA .0591 RC3 -.3545 FAU .04963
 FDE .9230 FRA .5547 FC3-3.3837 BSP 17119
 BDE 1.7868 BRA .1800 BC3 6.3510 FSP -886

MID-COURSE EXECUTION ACCURACY

SGT 5338.1 SGR 632.5 SG3 266.1
 RRT .8240 RRF .8237 RTF .9445
 SGB 5375.4 R23 .0740 R13 .9450
 SG1 5363.6 SG2 356.6 THA 5.60

ORBIT DETERMINATION ACCURACY

ST 2822.3 SR 566.6 SS 815.2
 CRT .9990 CRS -.9847 CST -.9800
 LSA 2987.7 MSA 156.4 SSA 19.3
 EL1 2878.5 EL2 25.0 ALF 11.34

LAUNCH DATE FEB 10 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 503.555
 RL 147.63 LAL .00 LOL 141.08 VL 26.972 GAL 1.06 AZL 86.95 MCA 242.53 SMA 123.98 ECC .19164 INC 3.0492 V1 30.179
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.116 GAP 8.40 AZP 91.41 TAL 175.50 TAP 58.04 RCA 100.22 APO 147.74 V2 34.951
 RC 158.875 GL 23.79 GP -20.58 ZAL 86.94 ZAP 153.69 ETS 313.56 ZAE 128.74 ETE 196.77 ZAC 136.63 ETC 183.84 CLP-163.24

PLANETOCENTRIC CONIC

C3 12.649 VML 3.557 DLA 41.77 RAL 44.45 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.299 DPA -6.26 RAP 45.81 ECC 1.2082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.91 19 25 42 4087.44 -31.75 181.42 270.62 61.29 20 33 50 3487.4 -35.30 173.24
 122.09 2 31 30 2777.72 -31.74 81.13 270.61 61.28 3 17 47 2177.7 -35.29 72.95
 57.91 19 25 42 4087.44 -31.75 181.42 270.62 61.29 20 33 50 3487.4 -35.30 173.24
 122.09 2 31 30 2777.72 -31.74 81.13 270.61 61.28 3 17 47 2177.7 -35.29 72.95
 57.91 19 25 42 4087.44 -31.75 181.42 270.62 61.29 20 33 50 3487.4 -35.30 173.24
 122.09 2 31 30 2777.72 -31.74 81.13 270.61 61.28 3 17 47 2177.7 -35.29 72.95

DIFFERENTIAL CORRECTIONS

TDE 1.7009 TRA .3615 TC3-6.4602 BAU 1.0938 SGT 5406.8 SGR 619.2 SG3 258.6 ST 2753.5 SR 555.8 SS 767.8
 RDE .3438 RRA .0708 RC3 -.3247 FAU .04701 RRT .8059 RRF .8016 RTF .9447 CRT .9993 CRS -.9763 CST -.9775
 FDE .8361 FRA .6386 FC3-3.2178 BSP 17283 SGB 5442.2 R23 .0622 R13 .9451 LSA 2907.8 MSA 156.5 SSA 20.5
 BOE 1.7352 BRA .3684 BC3 6.4684 FSP -855 SG1 5429.9 SG2 365.1 THA 5.30 EL1 2809.0 EL2 20.5 ALF 11.40

LAUNCH DATE FEB 10 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 509.342
 RL 147.63 LAL .00 LOL 141.08 VL 26.932 GAL 1.45 AZL 87.16 MCA 245.72 SMA 123.73 ECC .19474 INC 2.8381 V1 30.179
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.099 GAP 8.70 AZP 91.17 TAL 173.97 TAP 59.69 RCA 99.64 APO 147.83 V2 34.964
 RC 161.027 GL 21.95 GP -19.52 ZAL 84.01 ZAP 155.12 ETS 313.14 ZAE 128.89 ETE 195.91 ZAC 138.67 ETC 183.51 CLP-164.27

PLANETOCENTRIC CONIC

C3 12.722 VML 3.567 DLA 40.86 RAL 48.84 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.441 DPA -4.57 RAP 47.36 ECC 1.2094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.21 19 48 51 4073.05 -31.08 179.75 274.69 62.01 20 56 44 3473.0 -34.55 171.59
 120.79 2 43 20 2794.59 -31.07 82.17 274.69 61.99 3 29 55 2194.6 -34.54 74.01
 59.21 19 48 51 4073.05 -31.08 179.75 274.69 62.01 20 56 44 3473.0 -34.55 171.59
 120.79 2 43 20 2794.59 -31.07 82.17 274.69 61.99 3 29 55 2194.6 -34.54 74.01
 59.21 19 48 51 4073.05 -31.08 179.75 274.69 62.01 20 56 44 3473.0 -34.55 171.59
 120.79 2 43 20 2794.59 -31.07 82.17 274.69 61.99 3 29 55 2194.6 -34.54 74.01

DIFFERENTIAL CORRECTIONS

TDE 1.6359 TRA .5591 TC3-6.5243 BAU 1.1108 SGT 5475.1 SGR 607.9 SG3 250.8 ST 2655.6 SR 544.5 SS 715.0
 RDE .3374 RRA .0820 RC3 -.2990 FAU .04457 RRT .7883 RRF .7799 RTF .9455 CRT .9984 CRS -.9639 CST -.9742
 FDE .7468 FRA .7147 FC3-3.0332 BSP 17562 SGB 5508.8 R23 .0505 R13 .9458 LSA 2798.9 MSA 158.8 SSA 21.5
 BOE 1.6703 BRA .5651 BC3 6.5312 FSP -834 SG1 5496.2 SG2 372.6 THA 5.03 EL1 2710.6 EL2 30.0 ALF 11.57

LAUNCH DATE FEB 10 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 515.107
 RL 147.63 LAL .00 LOL 141.08 VL 26.893 GAL 1.86 AZL 87.36 MCA 248.91 SMA 123.49 ECC .19809 INC 2.6371 V1 30.179
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.083 GAP 9.02 AZP 90.95 TAL 172.42 TAP 61.33 RCA 99.03 APO 147.95 V2 34.977
 RC 163.161 GL 20.12 GP -18.57 ZAL 81.00 ZAP 156.47 ETS 312.59 ZAE 129.01 ETE 195.13 ZAC 140.74 ETC 183.16 CLP-165.28

PLANETOCENTRIC CONIC

C3 12.920 VML 3.594 DLA 39.89 RAL 53.18 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.594 DPA -2.98 RAP 48.99 ECC 1.2126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.64 20 12 35 4058.35 -30.30 178.03 278.85 62.70 21 20 13 3458.3 -33.69 169.90
 119.36 2 54 14 2815.91 -30.29 83.51 278.85 62.69 3 41 10 2215.9 -33.68 75.38
 60.64 20 12 35 4058.35 -30.30 178.03 278.85 62.70 21 20 13 3458.3 -33.69 169.90
 119.36 2 54 14 2815.91 -30.29 83.51 278.85 62.69 3 41 10 2215.9 -33.68 75.38
 60.64 20 12 35 4058.35 -30.30 178.03 278.85 62.70 21 20 13 3458.3 -33.69 169.90
 119.36 2 54 14 2815.91 -30.29 83.51 278.85 62.69 3 41 10 2215.9 -33.68 75.38

DIFFERENTIAL CORRECTIONS

TDE 1.5614 TRA .7666 TC3-6.5163 BAU 1.1265 SGT 5538.5 SGR 598.8 SG3 242.8 ST 2538.3 SR 534.1 SS 662.7
 RDE .3330 RRA .0935 RC3 -.2747 FAU .04211 RRT .7707 RRF .7591 RTF .9463 CRT .9958 CRS -.9464 CST -.9699
 FDE .6605 FRA .7866 FC3-2.8216 BSP 17801 SGB 5570.8 R23 .0414 R13 .9465 LSA 2672.0 MSA 164.2 SSA 22.2
 BOE 1.5965 BRA .7723 BC3 6.5221 FSP -809 SG1 5557.8 SG2 380.2 THA 4.79 EL1 2593.4 EL2 47.8 ALF 11.84

LAUNCH DATE FEB 10 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 520.850
 RL 147.63 LAL .00 LOL 141.08 VL 26.853 GAL 2.29 AZL 87.56 MCA 252.10 SMA 123.25 ECC .20169 INC 2.4446 V1 30.179
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.066 GAP 9.35 AZP 90.75 TAL 170.87 TAP 62.97 RCA 98.39 APO 148.10 V2 34.990
 RC 165.276 GL 18.33 GP -17.71 ZAL 77.93 ZAP 157.73 ETS 311.88 ZAE 129.11 ETE 194.44 ZAC 142.83 ETC 182.80 CLP-166.28

PLANETOCENTRIC CONIC

C3 13.247 VML 3.640 DLA 38.86 RAL 57.45 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 6.759 DPA -1.49 RAP 50.69 ECC 1.2180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.20 20 36 58 4042.78 -29.40 176.20 283.07 63.37 21 44 21 3442.8 -32.72 168.11
 117.80 3 3 53 2842.28 -29.39 85.20 283.06 63.35 3 51 16 2242.3 -32.71 77.11
 62.20 20 36 58 4042.78 -29.40 176.20 283.07 63.37 21 44 21 3442.8 -32.72 168.11
 117.80 3 3 53 2842.28 -29.39 85.20 283.06 63.35 3 51 16 2242.3 -32.71 77.11
 62.20 20 36 58 4042.78 -29.40 176.20 283.07 63.37 21 44 21 3442.8 -32.72 168.11
 117.80 3 3 53 2842.28 -29.39 85.20 283.06 63.35 3 51 16 2242.3 -32.71 77.11

DIFFERENTIAL CORRECTIONS

TDE 1.4757 TRA .9845 TC3-6.4395 BAU 1.1413 SGT 5597.4 SGR 590.7 SG3 234.5 ST 2402.7 SR 523.3 SS 610.1
 RDE .3299 RRA .1053 RC3 -.2525 FAU .03970 RRT .7537 RRF .7392 RTF .9473 CRT .9905 CRS -.9213 CST -.9644
 FDE .5753 FRA .8540 FC3-2.5947 BSP 18041 SGB 5628.4 R23 .0330 R13 .9475 LSA 2527.6 MSA 173.4 SSA 22.5
 BOE 1.5122 BRA .9901 BC3 6.4445 FSP -786 SG1 5615.1 SG2 387.0 THA 4.57 EL1 2458.1 EL2 70.2 ALF 12.19

LAUNCH DATE FEB 10 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 526.568

RL 147.63 LAL .00 LOL 141.08 VL 26.814 GAL 2.73 AZL 87.74 MCA 255.30 SMA 123.01 ECC .20558 INC 2.2586 VI 30.179
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.051 GAP 9.69 AZP 90.57 TAL 169.32 TAP 64.61 RCA 97.72 APO 148.29 V2 35.003
 RC 167.370 GL 16.56 GP -16.94 ZAL 74.85 ZAP 158.91 ETS 311.01 ZAE 129.19 ETE 193.82 ZAC 144.95 ETC 182.43 CLP-167.25

PLANETOCENTRIC CONIC

C3 13.713 VHL 3.703 CLA 37.76 RAL 61.61 RAD 6567.5 VEL 11.623 PTH 2.04 VHP 6.935 DPA -.08 RAP 52.47 ECC 1.2257
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.91 21 1 59 4025.97 -28.41 174.25 287.32 64.01 22 9 5 3426.0 -31.65 166.21
 116.09 3 12 4 2874.13 -28.40 87.26 287.32 64.00 3 59 58 2274.1 -31.64 79.23
 63.91 21 1 59 4025.97 -28.41 174.25 287.32 64.01 22 9 5 3426.0 -31.65 166.21
 116.09 3 12 4 2874.13 -28.40 87.26 287.32 64.00 3 59 58 2274.1 -31.64 79.23
 63.91 21 1 59 4025.97 -28.41 174.25 287.32 64.01 22 9 5 3426.0 -31.65 166.21
 116.09 3 12 4 2874.13 -28.40 87.26 287.32 64.00 3 59 58 2274.1 -31.64 79.23

DIFFERENTIAL CORRECTIONS

TDE 1.3851 TRA 1.2173 TC3-6.2840 BAU 1.1528
 RDE .3289 RRA .1182 RC3 -.2302 FAU .03720
 FDE .4968 FRA .9209 FC3-2.3484 BSP 18167
 BDE 1.4236 BRA 1.2230 BC3 6.2882 FSP -756

MID-COURSE EXECUTION ACCURACY

SGT 5650.4 SGR 584.5 SG3 226.4
 RRT .7374 RRF .7214 RTF .9481
 SGB 5680.6 R23 .0280 R13 .9483
 SG1 5666.9 SG2 393.6 THA 4.38

ORBIT DETERMINATION ACCURACY

ST 2263.4 SR 513.7 SS 563.9
 CRT .9814 CRS -.8873 CST -.9580
 LSA 2381.0 MSA 187.2 SSA 22.4
 EL1 2319.0 EL2 96.3 ALF 12.58

LAUNCH DATE FEB 10 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 532.257

RL 147.63 LAL .00 LOL 141.08 VL 26.775 GAL 3.20 AZL 87.92 MCA 258.49 SMA 122.77 ECC .20978 INC 2.0779 VI 30.179
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.035 GAP 10.04 AZP 90.41 TAL 167.76 TAP 66.26 RCA 97.01 APO 148.52 V2 35.016
 RC 169.445 GL 14.84 GP -16.23 ZAL 71.77 ZAP 160.03 ETS 309.98 ZAE 129.26 ETE 193.25 ZAC 147.09 ETC 182.02 CLP-168.21

PLANETOCENTRIC CONIC

C3 14.327 VHL 3.785 CLA 36.60 RAL 65.64 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 7.123 DPA 1.24 RAP 54.30 ECC 1.2358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.77 21 27 43 4007.25 -27.32 172.13 291.58 64.63 22 34 30 3407.3 -30.50 164.16
 114.23 3 18 29 2912.11 -27.31 89.76 291.58 64.62 4 7 1 2312.1 -30.49 81.79
 65.77 21 27 43 4007.25 -27.32 172.13 291.58 64.63 22 34 30 3407.3 -30.50 164.16
 114.23 3 18 29 2912.11 -27.31 89.76 291.58 64.62 4 7 1 2312.1 -30.49 81.79
 65.77 21 27 43 4007.25 -27.32 172.13 291.58 64.63 22 34 30 3407.3 -30.50 164.16
 114.23 3 18 29 2912.11 -27.31 89.76 291.58 64.62 4 7 1 2312.1 -30.49 81.79

DIFFERENTIAL CORRECTIONS

TDE 1.2805 TRA 1.4574 TC3-6.0800 BAU 1.1652
 RDE .3286 RRA .1311 RC3 -.2109 FAU .03489
 FDE .4183 FRA .9813 FC3-2.1084 BSP 18389
 BDE 1.3220 BRA 1.4633 BC3 6.0837 FSP -733

MID-COURSE EXECUTION ACCURACY

SGT 5700.3 SGR 577.9 SG3 218.1
 RRT .7219 RRF .7041 RTF .9492
 SGB 5729.5 R23 .0224 R13 .9493
 SG1 5715.6 SG2 398.8 THA 4.21

ORBIT DETERMINATION ACCURACY

ST 2110.9 SR 502.9 SS 519.1
 CRT .9664 CRS -.8401 CST -.9501
 LSA 2221.5 MSA 205.7 SSA 21.9
 EL1 2166.3 EL2 126.0 ALF 13.01

LAUNCH DATE FEB 10 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 537.916

RL 147.63 LAL .00 LOL 141.08 VL 26.736 GAL 3.69 AZL 88.10 MCA 261.69 SMA 122.53 ECC .21431 INC 1.9011 VI 30.179
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.020 GAP 10.41 AZP 90.27 TAL 166.21 TAP 67.90 RCA 96.27 APO 148.79 V2 35.030
 RC 171.498 GL 13.16 GP -15.60 ZAL 68.72 ZAP 161.08 ETS 308.75 ZAE 129.32 ETE 192.75 ZAC 149.25 ETC 181.56 CLP-169.15

PLANETOCENTRIC CONIC

C3 15.104 VHL 3.886 CLA 35.40 RAL 69.51 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 7.324 DPA 2.48 RAP 56.20 ECC 1.2486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.80 21 54 17 3985.93 -26.15 169.82 295.83 65.23 23 0 43 3385.9 -29.26 161.90
 112.20 3 22 50 2956.95 -26.14 92.73 295.83 65.22 4 12 7 2356.9 -29.25 84.82
 67.80 21 54 17 3985.93 -26.15 169.82 295.83 65.23 23 0 43 3385.9 -29.26 161.90
 112.20 3 22 50 2956.95 -26.14 92.73 295.83 65.22 4 12 7 2356.9 -29.25 84.82
 67.80 21 54 17 3985.93 -26.15 169.82 295.83 65.23 23 0 43 3385.9 -29.26 161.90
 112.20 3 22 50 2956.95 -26.14 92.73 295.83 65.22 4 12 7 2356.9 -29.25 84.82

DIFFERENTIAL CORRECTIONS

TDE 1.1681 TRA 1.7106 TC3-5.8202 BAU 1.1759
 RDE .3294 RRA .1449 RC3 -.1925 FAU .03261
 FDE .3441 FRA 1.0401 FC3-1.8693 BSP 18581
 BDE 1.2137 BRA 1.7168 BC3 5.8234 FSP -709

MID-COURSE EXECUTION ACCURACY

SGT 5744.9 SGR 571.7 SG3 210.0
 RRT .7075 RRF .6885 RTF .9502
 SGB 5773.3 R23 .0183 R13 .9503
 SG1 5759.2 SG2 403.0 THA 4.05

ORBIT DETERMINATION ACCURACY

ST 1961.1 SR 492.0 SS 481.0
 CRT .9431 CRS -.7780 CST -.9415
 LSA 2065.5 MSA 229.2 SSA 21.1
 EL1 2015.5 EL2 159.1 ALF 13.40

LAUNCH DATE FEB 10 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 543.540

RL 147.63 LAL .00 LOL 141.08 VL 26.698 GAL 4.21 AZL 88.27 MCA 264.90 SMA 122.30 ECC .21921 INC 1.7270 VI 30.179
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.004 GAP 10.80 AZP 90.15 TAL 164.66 TAP 69.55 RCA 95.49 APO 149.11 V2 35.043
 RC 173.532 GL 11.55 GP -15.01 ZAL 65.73 ZAP 162.07 ETS 307.32 ZAE 129.37 ETE 192.29 ZAC 151.42 ETC 181.05 CLP-170.08

PLANETOCENTRIC CONIC

C3 16.059 VHL 4.007 CLA 34.18 RAL 73.22 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 7.538 DPA 3.66 RAP 58.14 ECC 1.2643
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.01 22 21 56 3960.86 -24.92 167.22 300.07 65.81 23 27 57 3360.9 -27.96 159.37
 109.99 3 24 45 3009.72 -24.91 96.26 300.06 65.80 4 14 55 2409.7 -27.95 88.42
 70.01 22 21 56 3960.86 -24.92 167.22 300.07 65.81 23 27 57 3360.9 -27.96 159.37
 109.99 3 24 45 3009.72 -24.91 96.26 300.06 65.80 4 14 55 2409.7 -27.95 88.42
 110.00 3 30 16 2992.93 -25.37 95.18 300.29 66.28 4 20 9 2392.9 -28.35 87.27
 110.00 3 19 31 3025.65 -24.45 97.28 299.83 65.34 4 9 57 2425.7 -27.57 89.50

DIFFERENTIAL CORRECTIONS

TDE 1.0483 TRA 1.9767 TC3-5.5172 BAU 1.1851
 RDE .3313 RRA .1593 RC3 -.1752 FAU .03041
 FDE .2742 FRA 1.0966 FC3-1.6394 BSP 18757
 BDE 1.0994 BRA 1.9832 BC3 5.5199 FSP -686

MID-COURSE EXECUTION ACCURACY

SGT 5785.3 SGR 565.6 SG3 202.1
 RRT .6942 RRF .6742 RTF .9512
 SGB 5812.9 R23 .0148 R13 .9512
 SG1 5798.7 SG2 406.1 THA 3.90

ORBIT DETERMINATION ACCURACY

ST 1820.5 SR 480.8 SS 450.5
 CRT .9084 CRS -.7000 CST -.9334
 LSA 1918.9 MSA 256.9 SSA 20.2
 EL1 1872.8 EL2 195.5 ALF 13.64

LAUNCH DATE FEB 10 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 549.126
 RL 147.63 LAL .00 LOL 141.08 VL 26.659 GAL 4.75 AZL 88.45 HCA 268.10 SMA 122.07 ECC .22451 INC 1.5546 V1 30.179
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.989 GAP 11.21 AZP 90.05 TAL 163.11 TAP 71.21 RCA 94.66 APO 149.48 V2 35.056
 RC 175.544 GL 10.00 GP -14.49 ZAL 62.81 ZAP 163.00 ETS 305.67 ZAE 129.41 ETE 191.88 ZAC 153.61 ETC 180.46 CLP-171.00

PLANETOCENTRIC CONIC

C3 17.215 VHL 4.149 DLA 32.93 RAL 76.74 RAD 6567.7 VEL 11.773 PTH 2.08 VHP 7.766 DPA 4.76 RAP 60.14 ECC 1.2833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.44 22 51 3 3930.53 -23.63 164.24 304.26 66.37 23 56 34 3330.5 -26.62 156.46
 107.56 3 23 44 3071.92 -23.62 100.46 304.26 66.36 4 14 56 2471.9 -26.61 92.68
 72.44 22 51 3 3930.53 -23.63 164.24 304.26 66.37 23 56 34 3330.5 -26.62 156.46
 107.56 3 23 44 3071.92 -23.62 100.46 304.26 66.36 4 14 56 2471.9 -26.61 92.68
 110.00 4 48 50 2810.26 -29.78 82.81 306.85 72.38 5 35 40 2210.3 -31.90 74.24
 110.00 2 29 4 3240.19 -17.75 110.31 301.11 60.29 3 23 4 2640.2 -21.56 103.26

DIFFERENTIAL CORRECTIONS

TDE .9249 TRA 2.2603 TC3-5.1712 BAU 1.1907
 RDE .3344 RRA .1748 RC3 -.1580 FAU .02817
 FDE .2101 FRA 1.1532 FC3-1.4168 BSP 18836
 BOE .9835 BRA 2.2670 BC3 5.1736 FSP -659

MID-COURSE EXECUTION ACCURACY

SGT 5820.2 SGR 559.6 SG3 194.5
 RRT .6821 RRF .6619 RTF .9520
 SGB 5847.0 R23 .0127 R13 .9521
 SG1 5832.7 SG2 408.3 THA 3.77

ORBIT DETERMINATION ACCURACY

ST 1700.7 SR 469.8 SS 429.4
 CRT .8593 CRS -.6095 CST -.9282
 LSA 1792.9 MSA 287.2 SSA 19.2
 EL1 1748.9 EL2 233.7 ALF 13.60

LAUNCH DATE FEB 10 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 554.666
 RL 147.63 LAL .00 LOL 141.08 VL 26.621 GAL 5.32 AZL 88.62 HCA 271.31 SMA 121.84 ECC .23024 INC 1.3826 V1 30.179
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.974 GAP 11.64 AZP 89.97 TAL 161.57 TAP 72.88 RCA 93.79 APO 149.90 V2 35.069
 RC 177.535 GL 8.53 GP -14.00 ZAL 59.98 ZAP 163.87 ETS 303.78 ZAE 129.44 ETE 191.50 ZAC 155.80 ETC 179.77 CLP-171.92

PLANETOCENTRIC CONIC

C3 18.596 VHL 4.312 DLA 31.68 RAL 80.07 RAD 6567.8 VEL 11.831 PTH 2.10 VHP 8.011 DPA 5.80 RAP 62.18 ECC 1.3060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.17 23 22 25 3892.24 -22.31 160.70 308.42 66.90 24 27 17 3292.2 -25.24 152.98
 104.83 3 18 58 3146.13 -22.29 105.50 308.42 66.89 4 11 24 2546.1 -25.23 97.78
 75.17 23 22 25 3892.24 -22.31 160.70 308.42 66.90 24 27 17 3292.2 -25.24 152.98
 104.83 3 18 58 3146.13 -22.29 105.50 308.42 66.89 4 11 24 2546.1 -25.23 97.78
 110.00 5 30 42 2737.42 -31.16 77.59 311.83 75.19 6 16 20 2137.4 -32.88 68.79
 110.00 2 13 47 3348.95 -13.97 116.48 303.90 58.48 3 9 36 2749.0 -18.04 109.73

DIFFERENTIAL CORRECTIONS

TDE .7918 TRA 2.5547 TC3-4.8116 BAU 1.1967
 RDE .3381 RRA .1905 RC3 -.1426 FAU .02611
 FDE .1482 FRA 1.2065 FC3-1.2156 BSP 18998
 BOE .8609 BRA 2.5618 BC3 4.8137 FSP -637

MID-COURSE EXECUTION ACCURACY

SGT 5851.2 SGR 552.6 SG3 187.0
 RRT .6709 RRF .6501 RTF .9530
 SGB 5877.3 R23 .0103 R13 .9531
 SG1 5863.0 SG2 409.0 THA 3.64

ORBIT DETERMINATION ACCURACY

ST 1598.2 SR 458.0 SS 414.8
 CRT .7922 CRS -.5065 CST -.9265
 LSA 1683.5 MSA 318.6 SSA 18.2
 EL1 1640.0 EL2 272.4 ALF 13.16

LAUNCH DATE FEB 10 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 560.156
 RL 147.63 LAL .00 LOL 141.08 VL 26.583 GAL 5.92 AZL 88.79 HCA 274.52 SMA 121.62 ECC .23646 INC 1.2101 V1 30.179
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.960 GAP 12.10 AZP 89.90 TAL 160.04 TAP 74.56 RCA 92.86 APO 150.38 V2 35.083
 RC 179.506 GL 7.13 GP -13.56 ZAL 57.26 ZAP 164.69 ETS 301.63 ZAE 129.46 ETE 191.16 ZAC 158.01 ETC 178.95 CLP-172.83

PLANETOCENTRIC CONIC

C3 20.231 VHL 4.498 DLA 30.44 RAL 83.22 RAD 6567.8 VEL 11.900 PTH 2.11 VHP 8.273 DPA 6.77 RAP 64.25 ECC 1.3329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.35 0 1 32 3840.71 -20.96 156.21 312.54 67.41 1 5 33 3240.7 -23.84 148.56
 101.65 3 8 50 3237.55 -20.95 111.77 312.53 67.40 4 2 48 2637.5 -23.83 104.11
 78.35 0 1 32 3840.71 -20.96 156.21 312.54 67.41 1 5 33 3240.7 -23.84 148.56
 101.65 3 8 50 3237.55 -20.95 111.77 312.53 67.40 4 2 48 2637.5 -23.83 104.11
 110.00 6 4 52 2686.75 -31.99 73.87 316.46 77.25 6 49 38 2086.8 -33.41 64.93
 110.00 2 4 41 3439.51 -10.69 121.44 306.97 57.34 3 2 1 2839.5 -14.93 114.90

DIFFERENTIAL CORRECTIONS

TDE .6530 TRA 2.8651 TC3-4.4371 BAU 1.2006
 RDE .3425 RRA .2069 RC3 -.1279 FAU .02412
 FDE .0903 FRA 1.2591 FC3-1.0320 BSP 19141
 BOE .7374 BRA 2.8725 BC3 4.4389 FSP -616

MID-COURSE EXECUTION ACCURACY

SGT 5877.2 SGR 545.1 SG3 179.9
 RRT .6606 RRF .6394 RTF .9541
 SGB 5902.5 R23 .0081 R13 .9541
 SG1 5888.3 SG2 408.4 THA 3.52

ORBIT DETERMINATION ACCURACY

ST 1522.8 SR 445.9 SS 407.8
 CRT .7067 CRS -.3988 CST -.9297
 LSA 1600.8 MSA 347.8 SSA 17.3
 EL1 1556.4 EL2 308.7 ALF 12.18

LAUNCH DATE FEB 10 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 565.589
 RL 147.63 LAL .00 LOL 141.08 VL 26.546 GAL 6.56 AZL 88.96 HCA 277.73 SMA 121.40 ECC .24321 INC 1.0359 V1 30.179
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.945 GAP 12.59 AZP 89.86 TAL 158.53 TAP 76.26 RCA 91.87 APO 150.92 V2 35.095
 RC 181.455 GL 5.81 GP -13.16 ZAL 54.66 ZAP 165.45 ETS 299.18 ZAE 129.48 ETE 190.84 ZAC 160.21 ETC 177.94 CLP-173.73

PLANETOCENTRIC CONIC

C3 22.156 VHL 4.707 DLA 29.21 RAL 86.17 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 8.554 DPA 7.68 RAP 66.37 ECC 1.3646
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.50 0 45 11 3760.69 -19.61 149.68 316.61 67.90 1 47 51 3160.7 -22.43 142.08
 97.50 2 48 44 3361.28 -19.60 120.37 316.61 67.89 3 44 45 2761.3 -22.42 112.77
 100.00 4 1 48 3127.03 -24.13 104.82 318.40 71.79 4 53 55 2527.0 -26.39 96.75
 100.00 2 14 48 3470.17 -15.20 126.36 314.55 63.95 3 12 38 2870.2 -18.58 119.20
 110.00 6 34 30 2648.78 -32.52 71.04 320.89 78.84 7 18 38 2048.8 -33.72 62.01
 110.00 1 58 36 3521.18 -7.66 125.82 310.16 56.58 2 57 17 2921.2 -12.00 119.42

DIFFERENTIAL CORRECTIONS

TDE .5095 TRA 3.1929 TC3-4.0558 BAU 1.2018
 RDE .3478 RRA .2239 RC3 -.1138 FAU .02217
 FDE .0364 FRA 1.3115 FC3 -.8664 BSP 19269
 BOE .6169 BRA 3.2007 BC3 4.0574 FSP -595

MID-COURSE EXECUTION ACCURACY

SGT 5898.3 SGR 536.8 SG3 173.1
 RRT .6513 RRF .6299 RTF .9552
 SGB 5922.7 R23 .0063 R13 .9552
 SG1 5908.7 SG2 406.7 THA 3.41

ORBIT DETERMINATION ACCURACY

ST 1477.2 SR 433.6 SS 407.3
 CRT .6059 CRS -.2940 CST -.9377
 LSA 1548.5 MSA 371.6 SSA 16.5
 EL1 1501.7 EL2 339.3 ALF 10.63

LAUNCH DATE FEB 10 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 570.954

RL 147.63 LAL .00 LOL 141.08 VL 26.509 GAL 7.24 AZL 89.14 MCA 280.94 SMA 121.18 ECC .25056 INC .8589 V1 30.179
 RP 107.94 LAP -.84 LOP 62.03 VP 36.930 GAP 13.11 AZP 89.84 TAL 157.04 TAP 77.98 RCA 90.82 APO 151.54 V2 35.108
 RC 183.384 GL 4.58 GP -12.79 ZAL 52.17 ZAP 166.15 ETS 296.41 ZAE 129.48 ETE 190.55 ZAC 162.41 ETC 176.68 CLP-174.64

PLANETOCENTRIC CONIC

C3 24.414 VHL 4.941 DLA 28.02 RAL 88.93 RAD 6568.0 VEL 12.074 PTH 2.16 VHP 8.857 DPA 8.53 RAP 68.51 ECC 1.4018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 11 3467.05 -21.25 128.78 321.82 70.83 3 31 59 2867.1 -23.67 120.95
 90.00 1 21 46 3702.27 -15.30 143.47 319.34 65.88 2 23 28 3102.3 -18.43 136.20
 100.00 4 48 3 3035.53 -25.93 98.62 323.41 74.58 5 38 38 2435.5 -27.79 90.32
 100.00 1 50 36 3609.03 -10.90 134.42 317.12 61.99 2 50 45 3009.0 -14.56 127.55
 110.00 7 0 51 2619.89 -32.88 68.86 325.20 80.08 7 44 31 2019.9 -33.90 59.77
 110.00 1 54 17 3597.43 -4.78 129.85 313.43 56.11 2 54 15 2997.4 -9.20 123.55

DIFFERENTIAL CORRECTIONS

TDE .3649 TRA 3.5427 TC3-3.6706 BAU 1.1985
 ROE .3540 RRA .2416 RC3 -.1000 FAU .02022
 FDE -.0121 FRA 1.3656 FC3 -.7171 BSP 19289
 BOE .5084 BRA 3.5510 BC3 3.6720 FSP -571

MID-COURSE EXECUTION ACCURACY

SGT 5915.3 SGR 528.2 SG3 166.6
 RRT .6430 RRF .6219 RTF .9564
 SGB 5938.8 R23 .0053 R13 .9564
 SG1 5925.1 SG2 403.8 THA 3.30

ORBIT DETERMINATION ACCURACY

ST 1462.8 SR 421.4 SS 412.2
 CRT .4979 CRS -.2005 CST -.9487
 LSA 1528.7 MSA 387.2 SSA 15.7
 EL1 1478.7 EL2 361.5 ALF 8.69

LAUNCH DATE FEB 10 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 576.242

RL 147.63 LAL .00 LOL 141.08 VL 26.473 GAL 7.96 AZL 89.32 MCA 284.16 SMA 120.97 ECC .25856 INC .6779 V1 30.179
 RP 107.90 LAP -.66 LOP 65.24 VP 36.916 GAP 13.67 AZP 89.83 TAL 155.57 TAP 79.73 RCA 89.69 APO 152.24 V2 35.120
 RC 185.291 GL 3.42 GP -12.45 ZAL 49.82 ZAP 166.79 ETS 293.31 ZAE 129.47 ETE 190.29 ZAC 164.60 ETC 175.06 CLP-175.55

PLANETOCENTRIC CONIC

C3 27.058 VHL 5.202 DLA 26.86 RAL 91.51 RAD 6568.1 VEL 12.183 PTH 2.19 VHP 9.183 DPA 9.31 RAP 70.67 ECC 1.4453
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 28 1 3349.19 -23.68 121.00 327.04 74.00 4 23 51 2749.2 -25.65 112.88
 90.00 0 48 31 3870.95 -10.38 153.41 321.64 63.51 1 53 2 3270.9 -13.86 146.46
 100.00 5 22 20 2980.71 -26.87 94.82 327.97 76.38 6 12 0 2380.7 -28.47 86.38
 100.00 1 36 54 3714.66 -7.46 140.38 320.09 60.97 2 38 49 3114.7 -11.27 133.67
 110.00 7 24 35 2598.18 -33.12 67.21 329.41 81.03 8 7 53 1998.2 -34.01 58.08
 110.00 1 51 8 3669.95 -2.02 133.65 316.74 55.87 2 52 18 3070.0 -6.49 127.41

DIFFERENTIAL CORRECTIONS

TDE .2109 TRA 3.9083 TC3-3.3014 BAU 1.1947
 ROE .3605 RRA .2593 RC3 -.0875 FAU .01843
 FDE -.0593 FRA 1.4183 FC3 -.5896 BSP 19403
 BOE .4176 BRA 3.9169 BC3 3.3025 FSP -551

MID-COURSE EXECUTION ACCURACY

SGT 5927.3 SGR 518.1 SG3 160.4
 RRT .6348 RRF .6138 RTF .9579
 SGB 5949.9 R23 .0038 R13 .9579
 SG1 5936.5 SG2 399.6 THA 3.19

ORBIT DETERMINATION ACCURACY

ST 1469.7 SR 408.5 SS 420.3
 CRT .3856 CRS -.1134 CST -.9597
 LSA 1532.2 MSA 394.6 SSA 14.9
 EL1 1478.7 EL2 374.6 ALF 6.54

LAUNCH DATE FEB 10 1969

FLIGHT TIME 202.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 581.439

RL 147.63 LAL .00 LOL 141.08 VL 26.436 GAL 8.73 AZL 89.51 MCA 287.38 SMA 120.76 ECC .26730 INC .4916 V1 30.179
 RP 107.87 LAP -.47 LOP 68.46 VP 36.901 GAP 14.27 AZP 89.85 TAL 154.12 TAP 81.50 RCA 88.48 APO 153.03 V2 35.132
 RC 187.175 GL 2.34 GP -12.14 ZAL 47.60 ZAP 167.36 ETS 289.84 ZAE 129.44 ETE 190.04 ZAC 166.78 ETC 172.90 CLP-176.46

PLANETOCENTRIC CONIC

C3 30.151 VHL 5.491 DLA 25.74 RAL 93.91 RAD 6568.2 VEL 12.310 PTH 2.22 VHP 9.537 DPA 10.04 RAP 72.86 ECC 1.4962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 44 3288.44 -24.75 116.87 331.61 75.79 4 58 32 2688.4 -26.47 108.62
 90.00 0 31 59 3985.75 -6.82 159.97 324.54 62.45 1 38 25 3385.8 -10.46 153.18
 100.00 5 50 53 2942.97 -27.44 92.16 332.32 77.66 6 39 56 2343.0 -28.87 83.65
 100.00 1 27 30 3806.45 -4.40 145.48 323.21 60.40 2 30 57 3206.5 -8.31 138.87
 110.00 7 46 6 2582.51 -33.28 66.02 333.55 81.72 8 29 8 1982.5 -34.07 56.87
 110.00 1 48 47 3739.67 .65 137.28 320.08 55.82 2 51 7 3139.7 -3.84 131.07

DIFFERENTIAL CORRECTIONS

TDE .0525 TRA 4.2959 TC3-2.9438 BAU 1.1870
 ROE .3676 RRA .2771 RC3 -.0757 FAU .01668
 FDE -.1032 FRA 1.4723 FC3 -.4789 BSP 19493
 BOE .3713 BRA 4.3048 BC3 2.9448 FSP -532

MID-COURSE EXECUTION ACCURACY

SGT 5934.4 SGR 507.0 SG3 154.5
 RRT .6271 RRF .6065 RTF .9595
 SGB 5956.0 R23 .0027 R13 .9595
 SG1 5942.9 SG2 394.3 THA 3.08

ORBIT DETERMINATION ACCURACY

ST 1497.0 SR 395.5 SS 431.0
 CRT .2787 CRS -.0386 CST -.9698
 LSA 1558.2 MSA 393.8 SSA 14.3
 EL1 1501.3 EL2 378.7 ALF 4.50

LAUNCH DATE FEB 10 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 586.530

RL 147.63 LAL .00 LOL 141.08 VL 26.401 GAL 9.56 AZL 89.70 MCA 290.60 SMA 120.55 ECC .27686 INC .2982 V1 30.179
 RP 107.83 LAP -.28 LOP 71.68 VP 36.887 GAP 14.92 AZP 89.89 TAL 152.71 TAP 83.31 RCA 87.17 APO 153.92 V2 35.144
 RC 189.037 GL 1.34 GP -11.85 ZAL 45.51 ZAP 167.87 ETS 285.98 ZAE 129.40 ETE 189.80 ZAC 168.92 ETC 169.89 CLP-177.39

PLANETOCENTRIC CONIC

C3 33.771 VHL 5.811 DLA 24.66 RAL 96.14 RAD 6568.3 VEL 12.456 PTH 2.25 VHP 9.921 DPA 10.71 RAP 75.07 ECC 1.5558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 39 3248.46 -25.39 114.12 335.94 77.03 5 26 47 2648.5 -26.93 105.79
 90.00 0 20 53 4082.78 -3.74 165.44 327.62 61.91 1 28 55 3482.8 -7.47 158.74
 100.00 6 15 40 2916.31 -27.82 90.27 336.52 78.59 7 4 16 2316.3 -29.11 81.70
 100.00 1 20 32 3890.16 -1.57 150.08 326.42 60.14 2 25 23 3290.2 -5.53 143.53
 110.00 8 5 42 2572.09 -33.38 65.22 337.62 82.18 8 48 34 1972.1 -34.10 56.05
 110.00 1 47 0 3807.15 3.22 140.81 323.43 55.95 2 50 28 3207.1 -1.27 134.60

DIFFERENTIAL CORRECTIONS

TDE -.1107 TRA 4.7079 TC3-2.6022 BAU 1.1752
 ROE .3753 RRA .2949 RC3 -.0645 FAU .01497
 FDE -.1444 FRA 1.5281 FC3 -.3838 BSP 19569
 BOE .3913 BRA 4.7171 BC3 2.6030 FSP -514

MID-COURSE EXECUTION ACCURACY

SGT 5936.9 SGR 494.9 SG3 148.8
 RRT .6196 RRF .5996 RTF .9614
 SGB 5957.5 R23 .0017 R13 .9614
 SG1 5944.8 SG2 387.9 THA 2.97

ORBIT DETERMINATION ACCURACY

ST 1538.8 SR 382.3 SS 443.6
 CRT .1817 CRS .0248 CST -.9780
 LSA 1600.4 MSA 386.8 SSA 13.6
 EL1 1540.5 EL2 375.5 ALF 2.75

LAUNCH DATE FEB 10 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 591.495

RL 147.63 LAL .00 LOL 141.08 VL 26.366 GAL 10.44 AZL 89.90 HCA 293.82 SMA 120.35 ECC .28735 INC .0964 V1 30.179
 RP 107.79 LAP -.09 LOP 74.90 VP 36.873 GAP 15.62 AZP 89.96 TAL 151.34 TAP 85.16 RCA 85.77 APO 154.93 V2 35.155
 RC 190.875 GL .41 GP -11.59 ZAL 43.56 ZAP 168.29 ETS 281.73 ZAE 129.33 ETE 189.58 ZAC 171.01 ETC 165.49 CLP-178.33

PLANETOCENTRIC CONIC

C3 38.011 VHL 6.165 CLA 23.64 RAL 98.21 RAD 6568.5 VEL 12.625 PTH 2.29 VHP 10.339 DPA 11.32 RAP 77.28 ECC 1.6256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 22 3221.01 -25.80 112.21 340.11 77.91 5 51 3 2621.0 -27.21 103.83
 90.00 0 12 40 4169.99 -.93 170.31 330.80 61.70 1 22 10 3570.0 -4.71 163.66
 100.00 6 37 35 2897.87 -28.06 88.95 340.62 79.24 7 25 53 2297.9 -29.26 80.35
 100.00 1 15 8 3968.36 1.08 154.37 329.68 60.13 2 21 16 3368.4 -2.90 147.85
 110.00 8 23 35 2566.28 -33.44 64.77 341.63 82.44 9 6 21 1966.3 -34.12 55.60
 110.00 1 45 38 3872.72 5.71 144.25 326.80 56.24 2 50 10 3272.7 1.24 138.02

DIFFERENTIAL CORRECTIONS

TDE -.2754 TRA 5.1507 TC3-2.2755 BAU 1.1567
 RDE .3838 RRA .3127 RC3 -.0539 FAU .01325
 FDE -.1816 FRA 1.5875 FC3 -.3017 BSP 19528
 BDE .4724 BRA 5.1602 BC3 2.2762 FSP -493

MID-COURSE EXECUTION ACCURACY

SGT 5936.2 SGR 481.9 SG3 143.5
 RRT .6126 RRF .5937 RTF .9634
 SGB 5955.8 R23 .0014 R13 .9634
 SG1 5943.6 SG2 380.4 THA 2.86

ORBIT DETERMINATION ACCURACY

ST 1590.5 SR 369.2 SS 457.3
 CRT .0989 CRS .0752 CST -.9844
 LSA 1653.4 MSA 375.6 SSA 13.0
 EL1 1590.9 EL2 367.3 ALF 1.39

LAUNCH DATE FEB 10 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 596.310

RL 147.63 LAL .00 LOL 141.08 VL 26.331 GAL 11.40 AZL 90.12 HCA 297.05 SMA 120.15 ECC .29888 INC .1147 V1 30.179
 RP 107.76 LAP .10 LOP 78.13 VP 36.858 GAP 16.38 AZP 90.05 TAL 150.01 TAP 87.06 RCA 84.24 APO 156.06 V2 35.166
 RC 192.690 GL -.45 GP -11.35 ZAL 41.75 ZAP 168.63 ETS 277.09 ZAE 129.24 ETE 189.37 ZAC 173.00 ETC 158.53 CLP-179.28

PLANETOCENTRIC CONIC

C3 42.992 VHL 6.557 CLA 22.66 RAL 100.12 RAD 6568.6 VEL 12.820 PTH 2.33 VHP 10.797 DPA 11.88 RAP 79.50 ECC 1.7075
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 1 3202.47 -26.06 110.92 344.17 78.51 6 12 24 2602.5 -27.38 102.50
 90.00 0 6 15 4250.68 1.67 174.81 334.03 61.73 1 17 6 3650.7 -2.12 168.18
 100.00 6 57 11 2885.97 -28.21 88.10 344.63 79.67 7 45 17 2286.0 -29.34 79.48
 100.00 1 10 47 4042.42 3.59 158.44 332.97 60.30 2 18 9 3442.4 -.39 151.91
 110.00 8 39 54 2564.57 -33.45 64.64 345.59 82.52 9 22 39 1964.6 -34.12 55.47
 110.00 1 44 32 3936.58 8.12 147.63 330.18 56.68 2 50 9 3336.6 3.68 141.36

DIFFERENTIAL CORRECTIONS

TDE -.4515 TRA 5.6177 TC3-1.9746 BAU 1.1352
 RDE .3925 RRA .3296 RC3 -.0444 FAU .01163
 FDE -.2189 FRA 1.6482 FC3 -.2343 BSP 19595
 BDE .5983 BRA 5.6273 BC3 1.9751 FSP -476

MID-COURSE EXECUTION ACCURACY

SGT 5929.6 SGR 467.4 SG3 138.4
 RRT .6047 RRF .5868 RTF .9656
 SGB 5947.9 R23 .0008 R13 .9656
 SG1 5936.3 SG2 371.8 THA 2.74

ORBIT DETERMINATION ACCURACY

ST 1645.8 SR 355.5 SS 471.9
 CRT .0244 CRS .1209 CST -.9890
 LSA 1710.8 MSA 361.6 SSA 12.5
 EL1 1645.8 EL2 355.4 ALF .32

LAUNCH DATE FEB 10 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 600.946

RL 147.63 LAL .00 LOL 141.08 VL 26.297 GAL 12.43 AZL 90.34 HCA 300.27 SMA 119.95 ECC .31160 INC .3398 V1 30.179
 RP 107.73 LAP .29 LOP 81.36 VP 36.844 GAP 17.22 AZP 90.17 TAL 148.74 TAP 89.01 RCA 82.58 APO 157.33 V2 35.177
 RC 194.480 GL -1.25 GP -11.13 ZAL 40.07 ZAP 168.87 ETS 272.08 ZAE 129.12 ETE 189.17 ZAC 174.79 ETC 146.53 CLP 179.74

PLANETOCENTRIC CONIC

C3 48.858 VHL 6.990 CLA 21.74 RAL 101.88 RAD 6568.8 VEL 13.047 PTH 2.38 VHP 11.300 DPA 12.38 RAP 81.71 ECC 1.8041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 14 3190.83 -26.21 110.10 348.11 78.89 6 31 24 2590.8 -27.48 101.66
 90.00 0 1 3 4326.54 4.11 179.05 337.29 61.96 1 13 10 3726.5 .33 172.41
 100.00 7 14 47 2879.48 -28.29 87.63 348.55 79.90 8 2 46 2279.5 -29.39 79.00
 100.00 1 7 11 4113.12 5.96 162.35 336.27 60.65 2 15 44 3513.1 2.01 155.79
 110.00 8 54 49 2566.52 -33.43 64.79 349.48 82.43 9 37 36 1966.5 -34.12 55.62
 110.00 1 43 38 3998.84 10.43 150.97 333.56 57.26 2 50 17 3398.8 6.04 144.63

DIFFERENTIAL CORRECTIONS

TDE -.6336 TRA 6.1186 TC3-1.6938 BAU 1.1066
 RDE .4018 RRA .3457 RC3 -.0356 FAU .01003
 FDE -.2543 FRA 1.7129 FC3 -.1777 BSP 19642
 BDE .7503 BRA 6.1284 BC3 1.6942 FSP -460

MID-COURSE EXECUTION ACCURACY

SGT 5918.7 SGR 451.7 SG3 133.6
 RRT .5963 RRF .5798 RTF .9681
 SGB 5935.9 R23 .0004 R13 .9681
 SG1 5924.9 SG2 362.2 THA 2.62

ORBIT DETERMINATION ACCURACY

ST 1702.6 SR 341.8 SS 487.3
 CRT -.0390 CRS .1590 CST -.9924
 LSA 1770.1 MSA 346.1 SSA 11.9
 EL1 1702.6 EL2 341.6 ALF 179.53

LAUNCH DATE FEB 10 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 605.364

RL 147.63 LAL .00 LOL 141.08 VL 26.264 GAL 13.55 AZL 90.58 HCA 303.50 SMA 119.77 ECC .32569 INC .5799 V1 30.179
 RP 107.70 LAP .48 LOP 84.58 VP 36.830 GAP 18.14 AZP 90.32 TAL 147.54 TAP 91.04 RCA 80.76 APO 158.77 V2 35.187
 RC 196.245 GL -1.98 GP -10.92 ZAL 38.53 ZAP 169.00 ETS 266.75 ZAE 128.96 ETE 188.97 ZAC 176.13 ETC 124.68 CLP 178.73

PLANETOCENTRIC CONIC

C3 55.795 VHL 7.470 CLA 20.87 RAL 103.49 RAD 6569.0 VEL 13.310 PTH 2.43 VHP 11.855 DPA 12.82 RAP 83.91 ECC 1.9182
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 22 3184.78 -26.29 109.67 351.96 79.09 6 48 27 2584.8 -27.53 101.23
 90.00 23 52 48 4398.47 6.40 183.10 340.55 62.36 25 6 6 3798.5 2.65 176.42
 100.00 7 30 39 2877.57 -28.31 87.49 352.38 79.97 8 18 36 2277.6 -29.40 78.86
 100.00 1 4 8 4180.91 8.21 166.13 339.57 61.16 2 13 49 3580.9 4.30 159.52
 110.00 9 8 24 2571.73 -33.39 65.19 353.31 82.20 9 51 16 1971.7 -34.10 56.02
 110.00 1 42 52 4059.52 12.64 154.28 336.92 57.97 2 50 32 3459.5 8.32 147.85

DIFFERENTIAL CORRECTIONS

TDE -.8223 TRA 6.6571 TC3-1.4349 BAU 1.0705
 RDE .4117 RRA .3605 RC3 -.0277 FAU .00842
 FDE -.2883 FRA 1.7823 FC3 -.1307 BSP 19654
 BDE .9196 BRA 6.6669 BC3 1.4351 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 5904.2 SGR 434.7 SG3 129.0
 RRT .5871 RRF .5721 RTF .9707
 SGB 5920.2 R23 .0003 R13 .9707
 SG1 5909.7 SG2 351.6 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1757.8 SR 328.0 SS 503.5
 CRT -.0929 CRS .1914 CST -.9948
 LSA 1828.2 MSA 329.8 SSA 11.4
 EL1 1758.1 EL2 326.5 ALF 178.97

LAUNCH DATE FEB 10 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 609.518

RL 147.63 LAL .00 LOL 141.08 VL 26.232 GAL 14.78 AZL 90.84 HCA 306.73 SMA 119.58 ECC .34132 INC .8390 V1 30.179
 RP 107.67 LAP .67 LOP 87.81 VP 36.816 GAP 19.15 AZP 90.50 TAL 146.42 TAP 93.15 RCA 78.77 APO 160.40 V2 35.196
 RC 197.986 GL -2.66 GP -10.73 ZAL 37.13 ZAP 169.02 ETS 261.15 ZAE 128.77 ETE 188.77 ZAC 176.51 ETC 91.49 CLP 177.68

PLANETOCENTRIC CONIC

C3 64.037 VHL 8.002 DLA 20.06 RAL 104.94 RAD 6569.2 VEL 13.616 PTH 2.49 VHP 12.470 DPA 13.21 RAP 86.09 ECC 2.0539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 10 43 3183.36 -26.31 109.57 355.70 79.13 7 3 46 2583.4 -27.54 101.12
 90.00 23 49 5 4467.00 8.55 186.99 343.80 62.90 25 3 32 3867.0 4.85 180.26
 100.00 7 44 56 2879.56 -28.28 87.64 356.11 79.90 8 32 55 2279.6 -29.39 79.01
 100.00 1 1 29 4246.03 10.33 169.80 342.85 61.79 2 12 15 3646.0 6.47 163.13
 110.00 9 20 45 2579.79 -33.31 65.81 357.05 81.84 10 3 44 1979.8 -34.08 56.65
 110.00 1 42 10 4118.56 14.75 157.55 340.27 58.81 2 50 48 3518.6 10.51 151.02

DIFFERENTIAL CORRECTIONS

TDE-1.0158 TRA 7.2407 TC3-1.1940 BAU 1.0223
 RDE .4224 RRA .3737 RC3 -.0205 FAU .00674
 FDE -.3203 FRA 1.8587 FC3 -.0911 BSP 19567
 BDE 1.1001 BRA 7.2504 BC3 1.1942 FSP -426

MID-COURSE EXECUTION ACCURACY

SGT 5885.6 SGR 416.8 SG3 124.6
 RRT .5768 RRF .5638 RTF .9734
 SGB 5900.4 R23 .0006 R13 .9734
 SG1 5890.5 SG2 340.2 THA 2.35

ORBIT DETERMINATION ACCURACY

ST 1809.3 SR 314.3 SS 520.3
 CRT -.1379 CRS .2176 CST -.9965
 LSA 1882.7 MSA 313.5 SSA 10.9
 EL1 1809.9 EL2 311.2 ALF 178.59

LAUNCH DATE FEB 10 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 613.346

RL 147.63 LAL .00 LOL 141.08 VL 26.201 GAL 16.12 AZL 91.12 HCA 309.96 SMA 119.41 ECC .35874 INC 1.1208 V1 30.179
 RP 107.64 LAP .86 LOP 91.05 VP 36.802 GAP 20.28 AZP 90.72 TAL 145.39 TAP 95.35 RCA 76.57 APO 162.24 V2 35.205
 RC 199.701 GL -3.28 GP -10.56 ZAL 35.87 ZAP 168.91 ETS 255.38 ZAE 128.52 ETE 188.58 ZAC 175.72 ETC 62.48 CLP 176.59

PLANETOCENTRIC CONIC

C3 73.885 VHL 8.596 DLA 19.30 RAL 106.25 RAD 6569.4 VEL 13.973 PTH 2.55 VHP 13.155 DPA 13.56 RAP 88.24 ECC 2.2160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 26 3185.82 -26.28 109.75 359.32 79.05 7 17 32 2585.8 -27.52 101.30
 90.00 23 45 49 4532.41 10.55 190.75 347.01 63.57 25 1 22 3932.4 6.92 183.95
 100.00 7 57 45 2884.88 -28.22 88.02 359.73 79.71 8 45 50 2284.9 -29.35 79.40
 100.00 0 59 7 4308.59 12.31 173.38 346.10 62.55 2 10 55 3708.6 8.54 166.63
 110.00 9 31 53 2590.36 -33.21 66.62 .70 81.37 10 15 4 1990.4 -34.04 57.48
 110.00 1 41 28 4175.87 16.74 160.80 343.58 59.75 2 51 4 3575.9 12.60 154.14

DIFFERENTIAL CORRECTIONS

TDE-1.2241 TRA 7.8666 TC3 -.9775 BAU .9656
 RDE .4336 RRA .3842 RC3 -.0144 FAU .00508
 FDE -.3535 FRA 1.9404 FC3 -.0595 BSP 19590
 BDE 1.2986 BRA 7.8760 BC3 .9776 FSP -412

MID-COURSE EXECUTION ACCURACY

SGT 5861.4 SGR 397.2 SG3 120.5
 RRT .5640 RRF .5530 RTF .9762
 SGB 5874.9 R23 .0008 R13 .9762
 SG1 5865.7 SG2 327.8 THA 2.20

ORBIT DETERMINATION ACCURACY

ST 1856.4 SR 300.3 SS 538.6
 CRT -.1796 CRS .2434 CST -.9977
 LSA 1933.5 MSA 296.9 SSA 10.4
 EL1 1857.2 EL2 295.3 ALF 178.29

LAUNCH DATE FEB 10 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 616.771

RL 147.63 LAL .00 LOL 141.08 VL 26.171 GAL 17.61 AZL 91.43 HCA 313.19 SMA 119.24 ECC .37823 INC 1.4308 V1 30.179
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.789 GAP 21.54 AZP 90.98 TAL 144.49 TAP 97.67 RCA 74.14 APO 164.34 V2 35.213
 RC 201.391 GL -3.86 GP -10.39 ZAL 34.76 ZAP 168.66 ETS 249.55 ZAE 128.22 ETE 188.37 ZAC 174.27 ETC 45.75 CLP 175.45

PLANETOCENTRIC CONIC

C3 85.727 VHL 9.259 DLA 18.59 RAL 107.41 RAD 6569.7 VEL 14.390 PTH 2.62 VHP 13.923 DPA 13.85 RAP 90.35 ECC 2.4109
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 37 3191.57 -26.20 110.15 2.81 78.86 7 29 49 2591.6 -27.48 101.72
 90.00 23 42 52 4594.79 12.42 194.38 350.17 64.35 24 59 27 3994.8 8.86 187.50
 100.00 8 9 11 2893.05 -28.12 88.61 3.22 79.42 8 57 24 2293.0 -29.29 80.00
 100.00 0 56 55 4368.55 14.17 176.87 349.28 63.40 2 9 44 3768.5 10.49 170.01
 110.00 9 41 53 2603.07 -33.07 67.58 4.22 80.82 10 25 16 2003.1 -33.99 58.46
 110.00 1 40 43 4231.29 18.61 164.01 346.83 60.80 2 51 15 3631.3 14.58 157.21

DIFFERENTIAL CORRECTIONS

TDE-1.4424 TRA 8.5471 TC3 -.7803 BAU .8944
 RDE .4458 RRA .3915 RC3 -.0091 FAU .00332
 FDE -.3865 FRA 2.0307 FC3 -.0336 BSP 19587
 BDE 1.5098 BRA 8.5561 BC3 .7804 FSP -398

MID-COURSE EXECUTION ACCURACY

SGT 5833.1 SGR 376.5 SG3 116.5
 RRT .5486 RRF .5396 RTF .9790
 SGB 5845.3 R23 .0012 R13 .9790
 SG1 5836.8 SG2 314.6 THA 2.03

ORBIT DETERMINATION ACCURACY

ST 1897.7 SR 286.3 SS 558.3
 CRT -.2169 CRS .2670 CST -.9985
 LSA 1979.0 MSA 280.5 SSA 9.8
 EL1 1898.7 EL2 279.4 ALF 178.08

LAUNCH DATE FEB 10 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 619.691

RL 147.63 LAL .00 LOL 141.08 VL 26.142 GAL 19.26 AZL 91.78 HCA 316.42 SMA 119.08 ECC .40011 INC 1.7757 V1 30.179
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.776 GAP 22.96 AZP 91.29 TAL 143.72 TAP 100.14 RCA 71.43 APO 166.72 V2 35.221
 RC 203.056 GL -4.38 GP -10.24 ZAL 33.79 ZAP 168.26 ETS 243.73 ZAE 127.84 ETE 188.17 ZAC 172.59 ETC 36.50 CLP 174.24

PLANETOCENTRIC CONIC

C3 100.071 VHL 10.004 DLA 17.94 RAL 108.41 RAD 6569.9 VEL 14.880 PTH 2.69 VHP 14.788 DPA 14.10 RAP 92.39 ECC 2.6469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 21 3200.08 -26.09 110.75 6.13 78.58 7 40 41 2600.1 -27.40 102.33
 90.00 23 40 8 4654.11 14.14 197.89 353.23 65.21 24 57 42 4054.1 10.68 190.92
 100.00 8 19 17 2903.62 -27.98 89.36 6.55 79.04 9 7 40 2303.6 -29.21 80.77
 100.00 0 54 49 4425.81 15.89 180.25 352.38 64.34 2 8 35 3825.8 12.30 173.29
 110.00 9 50 42 2617.59 -32.91 68.69 7.60 80.18 10 34 20 2017.6 -33.91 59.59
 110.00 1 39 53 4284.61 20.35 167.16 350.00 61.93 2 51 18 3684.6 16.44 160.23

DIFFERENTIAL CORRECTIONS

TDE-1.6716 TRA 9.2900 TC3 -.6017 BAU .8050
 RDE .4591 RRA .3947 RC3 -.0047 FAU .00142
 FDE -.4198 FRA 2.1313 FC3 -.0123 BSP 19552
 BDE 1.7335 BRA 9.2984 BC3 .6017 FSP -385

MID-COURSE EXECUTION ACCURACY

SGT 5800.6 SGR 354.6 SG3 112.8
 RRT .5293 RRF .5226 RTF .9818
 SGB 5811.4 R23 .0017 R13 .9818
 SG1 5803.6 SG2 300.7 THA 1.86

ORBIT DETERMINATION ACCURACY

ST 1932.2 SR 272.5 SS 579.9
 CRT -.2510 CRS .2894 CST -.9991
 LSA 2018.4 MSA 264.3 SSA 9.3
 EL1 1933.4 EL2 263.6 ALF 177.93

LAUNCH DATE FEB 11 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 22 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 25.891 GAL -5.06 AZL 87.94 HCA 78.00 SMA 117.73 ECC .26809 INC 2.0563 V1 30.173
 RP 108.19 LAP 2.01 LOP 220.09 VP 36.416 GAP -14.86 AZP 89.57 TAL 194.14 TAP 272.14 RCA 86.17 APO 149.30 V2 35.027
 RC 46.364 GL 10.27 GP 11.46 ZAL 120.05 ZAP 11.48 ETS 276.32 ZAE 152.69 ETE 8.04 ZAC 127.61 ETC 154.53 CLP -.71

PLANETOCENTRIC CONIC
 C3 26.960 VHL 5.192 CLA 17.88 RAL 15.86 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 9.769 OPA 23.33 RAP 33.18 ECC 1.4437
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 52 2879.64 -28.32 87.65 249.30 89.90 1 22 52 2279.6 -28.03 78.99
 90.00 17 26 19 4338.70 4.50 179.73 241.04 62.01 18 38 38 3738.7 .72 175.09
 100.00 2 6 44 2583.38 -29.87 65.84 249.28 91.21 2 49 48 1983.4 -29.38 57.06
 100.00 18 37 8 4110.19 5.86 162.19 240.29 60.64 19 45 38 3510.2 1.91 155.63
 110.00 3 38 2 2297.73 -33.89 43.90 249.04 94.74 4 16 20 1697.7 -32.86 34.81
 110.00 19 22 20 3968.61 9.31 149.34 238.18 56.96 20 28 28 3368.6 4.89 143.04

DIFFERENTIAL CORRECTIONS
 TDE -.2734 TRA -.4292 TC3 .4290 BAU .1572 SGT 732.9 SGR 436.6 SG3 88.6 ST 336.9 SR 404.2 SS 122.2
 RDE -.3640 RRA .1296 RC3 .0788 FAU .03045 RRT .2590 RRF -.3002 RTF -.6820 CRT .8408 CRS .9617 CST .9142
 FDE .1279 FRA .0308 FC3 -.9779 BSP 2104 SGB 853.1 R23 -.0415 R13 -.6927 LSA 519.6 MSA 145.8 SSA 22.9
 BDE .4553 BRA .4483 BC3 .4362 FSP -215 SG1 745.6 SG2 414.5 THA 12.78 EL1 505.6 EL2 145.8 ALF 51.15

LAUNCH DATE FEB 11 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.135 GAL -5.08 AZL 88.12 HCA 81.20 SMA 119.07 ECC .25501 INC 1.8776 V1 30.173
 RP 108.23 LAP 1.86 LOP 223.29 VP 36.577 GAP -13.84 AZP 89.71 TAL 195.25 TAP 276.45 RCA 88.71 APO 149.44 V2 35.013
 RC 47.558 GL 9.84 GP 12.16 ZAL 121.84 ZAP 12.49 ETS 286.14 ZAE 150.96 ETE 9.69 ZAC 128.18 ETC 153.50 CLP -2.86

PLANETOCENTRIC CONIC
 C3 24.916 VHL 4.992 CLA 16.80 RAL 14.34 RAD 6568.0 VEL 12.095 PTH 2.16 VHP 9.204 OPA 24.37 RAP 33.93 ECC 1.4101
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 34 2819.14 -28.24 83.22 245.80 92.11 1 26 33 2219.1 -27.65 74.61
 90.00 17 9 30 4360.20 5.19 180.94 238.12 62.12 18 22 11 3760.2 1.42 174.29
 100.00 2 10 28 2526.00 -29.71 61.58 245.72 93.45 2 52 34 1926.0 -28.92 52.86
 100.00 18 21 18 4128.57 6.48 163.21 237.41 60.75 19 30 6 3528.6 2.53 156.64
 110.00 3 39 49 2246.46 -33.53 39.94 245.31 97.06 4 17 15 1646.5 -32.19 30.96
 110.00 19 8 26 3980.87 9.76 150.00 235.41 57.08 20 14 47 3380.9 5.36 143.68

DIFFERENTIAL CORRECTIONS
 TDE -.2651 TRA -.4057 TC3 .4962 BAU .1690 SGT 758.0 SGR 444.4 SG3 99.4 ST 337.8 SR 404.8 SS 109.0
 RDE -.3503 RRA .1307 RC3 .1063 FAU .03293 RRT .2930 RRF -.3397 RTF -.6989 CRT .8449 CRS .9620 CST .8890
 FDE .1156 FRA .0052 FC3 -1.1443 BSP 2216 SGB 878.6 R23 -.0483 R13 -.7114 LSA 518.0 MSA 144.5 SSA 24.8
 BDE .4393 BRA .4262 BC3 .5074 FSP -246 SG1 773.8 SG2 416.2 THA 13.82 EL1 507.1 EL2 144.3 ALF 51.08

LAUNCH DATE FEB 11 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.355 GAL -5.12 AZL 88.30 HCA 84.40 SMA 120.33 ECC .24322 INC 1.7020 V1 30.173
 RP 108.27 LAP 1.69 LOP 226.49 VP 36.722 GAP -12.87 AZP 89.83 TAL 196.40 TAP 280.80 RCA 91.06 APO 149.59 V2 35.000
 RC 48.883 GL 9.32 GP 12.94 ZAL 123.65 ZAP 13.88 ETS 294.47 ZAE 149.41 ETE 11.35 ZAC 128.63 ETC 152.41 CLP -5.07

PLANETOCENTRIC CONIC
 C3 23.203 VHL 4.817 CLA 15.63 RAL 12.86 RAD 6567.9 VEL 12.024 PTH 2.15 VHP 8.670 OPA 25.45 RAP 34.59 ECC 1.3819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 52 2758.45 -28.01 78.80 242.45 94.32 1 30 51 2158.4 -27.12 70.24
 90.00 16 52 23 4385.96 6.01 182.39 235.39 62.28 18 5 29 3786.0 2.25 175.73
 100.00 2 14 49 2468.38 -29.40 57.32 242.31 95.67 2 55 57 1868.4 -28.30 48.69
 100.00 18 5 8 4151.26 7.23 164.47 234.72 60.92 19 14 19 3551.3 3.30 157.89
 110.00 3 42 11 2195.00 -33.03 36.00 241.75 99.34 4 18 46 1595.0 -31.39 27.16
 110.00 18 54 15 3997.40 10.37 150.89 232.82 57.25 20 0 52 3397.4 5.98 144.55

DIFFERENTIAL CORRECTIONS
 TDE -.2551 TRA -.3831 TC3 .5647 BAU .1804 SGT 782.2 SGR 453.3 SG3 111.4 ST 335.4 SR 403.9 SS 93.3
 RDE -.3370 RRA .1326 RC3 .1392 FAU .03571 RRT .3302 RRF -.3837 RTF -.7141 CRT .8470 CRS .9530 CST .8431
 FDE .0993 FRA -.0238 FC3 -1.3323 BSP 2323 SGB 904.1 R23 -.0567 R13 -.7289 LSA 513.0 MSA 143.2 SSA 27.0
 BDE .4227 BRA .4054 BC3 .5816 FSP -282 SG1 802.0 SG2 417.4 THA 14.98 EL1 505.3 EL2 142.5 ALF 51.22

LAUNCH DATE FEB 11 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.555 GAL -5.16 AZL 88.47 HCA 87.59 SMA 121.49 ECC .23265 INC 1.5285 V1 30.173
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.853 GAP -11.95 AZP 89.94 TAL 197.59 TAP 285.18 RCA 93.22 APO 149.75 V2 34.987
 RC 50.327 GL 8.70 GP 13.79 ZAL 125.47 ZAP 15.60 ETS 301.31 ZAE 148.04 ETE 13.08 ZAC 128.95 ETC 151.28 CLP -7.36

PLANETOCENTRIC CONIC
 C3 21.768 VHL 4.666 CLA 14.37 RAL 11.44 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 8.166 OPA 26.58 RAP 35.15 ECC 1.3583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 50 44 2697.98 -27.63 74.42 239.29 96.48 1 35 42 2098.0 -26.44 65.95
 90.00 16 35 12 4415.46 6.94 184.06 232.87 62.48 17 48 48 3815.5 3.20 177.37
 100.00 2 19 45 2410.91 -28.94 53.11 239.10 97.84 2 59 56 1810.9 -27.55 44.59
 100.00 17 48 52 4177.75 8.10 165.95 232.24 61.13 18 58 30 3577.8 4.19 159.35
 110.00 3 45 9 2143.66 -32.40 32.13 238.41 101.55 4 20 53 1543.7 -30.47 23.45
 110.00 18 39 57 4017.77 11.12 152.00 230.42 57.47 19 46 55 3417.8 6.75 145.63

DIFFERENTIAL CORRECTIONS
 TDE -.2434 TRA -.3609 TC3 .6331 BAU .1914 SGT 804.8 SGR 464.1 SG3 124.9 ST 329.4 SR 401.2 SS 75.5
 RDE -.3240 RRA .1355 RC3 .1781 FAU .03882 RRT .3709 RRF -.4318 RTF -.7278 CRT .8471 CRS .9158 CST .7475
 FDE .0778 FRA -.0567 FC3 -1.5440 BSP 2429 SGB 929.0 R23 -.0662 R13 -.7454 LSA 504.2 MSA 141.9 SSA 29.5
 BDE .4052 BRA .3855 BC3 .6576 FSP -321 SG1 829.6 SG2 418.1 THA 16.33 EL1 499.7 EL2 140.6 ALF 51.59

LAUNCH DATE FEB 11 1969

FLIGHT TIME 78.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 205.394

RL 147.66 LAL .00 LOL 142.09 VL 26.735 GAL -5.21 AZL 88.64 HCA 90.78 SMA 122.57 ECC .22320 INC 1.3559 V1 30.173
 RP 108.36 LAP 1.36 LOP 232.88 VP 36.971 GAP -11.07 AZP 90.02 TAL 198.79 TAP 289.58 RCA 95.21 APO 149.92 V2 34.974
 RC 51.881 GL 7.99 GP 14.75 ZAL 127.25 ZAP 17.60 ETS 306.87 ZAE 146.87 ETE 14.90 ZAC 129.13 ETC 150.12 CLP -9.73

PLANETOCENTRIC CONIC

C3 20.570 VHL 4.535 DLA 13.03 RAL 10.10 RAD 6567.8 VEL 11.914 PTH 2.12 VHP 7.692 DPA 27.77 RAP 35.58 ECC 1.3385
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 57 8 2638.07 -27.09 70.11 236.34 98.58 1 41 6 2038.1 -25.63 61.75
 90.00 16 18 8 4448.14 7.96 185.91 230.58 62.74 17 32 17 3848.1 4.24 179.21
 100.00 2 25 14 2353.91 -28.34 48.98 236.11 99.93 3 4 28 1753.9 -26.68 40.58
 100.00 17 32 43 4207.53 9.08 167.62 229.99 61.40 18 42 51 3607.5 5.19 160.99
 110.00 3 48 43 2092.71 -31.64 28.35 235.31 103.66 4 23 36 1492.7 -29.44 19.84
 110.00 18 25 44 4041.50 11.99 153.29 228.25 57.75 19 33 5 3441.5 7.64 146.89

DIFFERENTIAL CORRECTIONS

TDE -.2302 TRA -.3400 TC3 .6989 BAU .2018
 ROE -.3108 RRA .1393 RC3 .2236 FAU .04230
 FDE .0503 FRA -.0934 FC3-1.7803 BSP 2530
 BOE .3867 BRA .3674 BC3 .7338 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 825.1 SGR 477.4 SG3 140.0
 RRT .4141 RRF -.4838 RTF -.7395
 SGB 953.3 R23 -.0775 R13 -.7608
 SG1 856.4 SG2 418.6 THA 17.88

ORBIT DETERMINATION ACCURACY

ST 320.0 SR 396.4 SS 58.3
 CRT .8444 CRS .7821 CST .5195
 LSA 492.0 MSA 140.9 SSA 32.3
 EL1 490.2 EL2 138.6 ALF 52.17

LAUNCH DATE FEB 11 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 212.121

RL 147.66 LAL .00 LOL 142.09 VL 26.897 GAL -5.26 AZL 88.82 HCA 93.97 SMA 123.56 ECC .21480 INC 1.1832 V1 30.173
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.076 GAP -10.23 AZP 90.08 TAL 200.00 TAP 293.97 RCA 97.02 APO 150.10 V2 34.961
 RC 53.536 GL 7.18 GP 15.80 ZAL 128.99 ZAP 19.86 ETS 311.37 ZAE 145.87 ETE 16.86 ZAC 129.13 ETC 148.93 CLP -12.19

PLANETOCENTRIC CONIC

C3 19.570 VHL 4.424 DLA 11.64 RAL 8.87 RAD 6567.8 VEL 11.872 PTH 2.11 VHP 7.247 DPA 29.01 RAP 35.86 ECC 1.3221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 4 2 2578.94 -26.42 65.92 233.63 100.58 1 47 1 1978.9 -24.69 57.67
 90.00 16 1 22 4483.53 9.06 187.93 228.55 63.06 17 16 6 3883.5 5.37 181.19
 100.00 2 31 17 2297.59 -27.61 44.96 233.36 101.93 3 9 34 1697.6 -25.69 36.68
 100.00 17 16 49 4240.11 10.13 169.47 227.98 61.73 18 27 30 3640.1 6.28 162.80
 110.00 3 52 51 2042.33 -30.77 24.68 232.47 105.67 4 26 53 1442.3 -28.32 16.35
 110.00 18 11 44 4068.14 12.95 154.75 226.31 58.09 19 19 32 3468.1 8.64 148.31

DIFFERENTIAL CORRECTIONS

TDE -.2154 TRA -.3202 TC3 .7607 BAU .2117
 ROE -.2972 RRA .1440 RC3 .2763 FAU .04617
 FDE .0159 FRA -.1341 FC3-2.0426 BSP 2626
 BOE .3670 BRA .3511 BC3 .8093 FSP -418

MID-COURSE EXECUTION ACCURACY

SGT 842.6 SGR 494.2 SG3 156.9
 RRT .4594 RRF -.5389 RTF -.7496
 SGB 976.8 R23 -.0902 R13 -.7757
 SG1 882.3 SG2 419.2 THA 19.70

ORBIT DETERMINATION ACCURACY

ST 307.2 SR 389.2 SS 49.3
 CRT .8387 CRS .3717 CST .0042
 LSA 476.8 MSA 140.3 SSA 35.3
 EL1 476.6 EL2 136.6 ALF 52.95

LAUNCH DATE FEB 11 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 218.832

RL 147.66 LAL .00 LOL 142.09 VL 27.042 GAL -5.31 AZL 88.99 HCA 97.16 SMA 124.46 ECC .20736 INC 1.0093 V1 30.173
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.169 GAP -9.43 AZP 90.13 TAL 201.19 TAP 298.35 RCA 98.65 APO 150.27 V2 34.948
 RC 55.282 GL 6.29 GP 16.97 ZAL 130.65 ZAP 22.35 ETS 315.06 ZAE 145.06 ETE 19.01 ZAC 128.95 ETC 147.74 CLP -14.76

PLANETOCENTRIC CONIC

C3 18.738 VHL 4.329 DLA 10.19 RAL 7.75 RAD 6567.8 VEL 11.837 PTH 2.10 VHP 6.830 DPA 30.32 RAP 35.98 ECC 1.3084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 11 28 2520.75 -25.63 61.84 231.17 102.47 1 53 29 1920.8 -23.65 53.72
 90.00 15 45 2 4521.20 10.21 190.10 226.78 63.45 17 0 23 3921.2 6.57 183.32
 100.00 2 37 51 2242.02 -26.77 41.05 230.87 103.82 3 15 14 1642.1 -24.60 32.92
 100.00 17 1 19 4275.07 11.25 171.46 226.23 62.12 18 12 34 3675.1 7.44 164.75
 110.00 3 57 34 1992.66 -29.81 21.14 229.90 107.57 4 30 47 1392.7 -27.11 12.98
 110.00 17 58 6 4097.29 13.99 156.37 224.63 58.49 19 6 23 3497.3 9.72 149.87

DIFFERENTIAL CORRECTIONS

TDE -.1992 TRA -.3019 TC3 .8162 BAU .2212
 ROE -.2826 RRA .1499 RC3 .3372 FAU .05048
 FDE -.0268 FRA -.1787 FC3-2.3323 BSP 2721
 BOE .3458 BRA .3370 BC3 .8831 FSP -475

MID-COURSE EXECUTION ACCURACY

SGT 856.5 SGR 515.6 SG3 175.7
 RRT .5052 RRF -.5957 RTF -.7577
 SGB 999.7 R23 -.1045 R13 -.7899
 SG1 907.2 SG2 420.1 THA 21.82

ORBIT DETERMINATION ACCURACY

ST 291.3 SR 379.1 SS 59.4
 CRT .8286 CRS -.2197 CST -.5750
 LSA 459.2 MSA 140.5 SSA 38.6
 EL1 458.7 EL2 134.8 ALF 53.92

LAUNCH DATE FEB 11 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 225.526

RL 147.66 LAL .00 LOL 142.09 VL 27.172 GAL -5.36 AZL 89.17 HCA 100.35 SMA 125.29 ECC .20079 INC .8330 V1 30.173
 RP 108.47 LAP .82 LOP 242.44 VP 37.252 GAP -8.67 AZP 90.15 TAL 202.35 TAP 302.69 RCA 100.13 APO 150.45 V2 34.936
 RC 57.109 GL 5.31 GP 18.27 ZAL 132.22 ZAP 25.07 ETS 318.12 ZAE 144.40 ETE 21.38 ZAC 128.57 ETC 146.56 CLP -17.46

PLANETOCENTRIC CONIC

C3 18.046 VHL 4.248 DLA 8.71 RAL 6.76 RAD 6567.7 VEL 11.808 PTH 2.09 VHP 6.442 DPA 31.70 RAP 35.90 ECC 1.2970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 19 25 2463.53 -24.73 57.89 228.97 104.26 2 0 29 1863.5 -22.53 49.91
 90.00 15 29 11 4560.81 11.41 192.39 225.26 63.91 16 45 12 3960.8 7.81 185.56
 100.00 2 45 0 2187.52 -25.83 37.27 228.65 105.60 3 21 27 1587.5 -23.43 29.28
 100.00 16 46 18 4312.05 12.42 173.58 224.74 62.59 17 58 10 3712.1 8.65 166.82
 110.00 4 2 53 1943.76 -28.75 17.72 227.61 109.34 4 35 17 1343.8 -25.84 9.75
 110.00 17 44 53 4128.58 15.10 158.12 223.20 58.96 18 53 42 3528.6 10.88 151.56

DIFFERENTIAL CORRECTIONS

TDE -.1806 TRA -.2841 TC3 .8665 BAU .2310
 ROE -.2666 RRA .1569 RC3 .4074 FAU .05529
 FDE -.0800 FRA -.2280 FC3-2.6523 BSP 2848
 BOE .3220 BRA .3246 BC3 .9575 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 867.0 SGR 543.1 SG3 196.8
 RRT .5510 RRF -.6531 RTF -.7659
 SGB 1023.0 R23 -.1180 R13 -.8058
 SG1 932.1 SG2 421.6 THA 24.33

ORBIT DETERMINATION ACCURACY

ST 270.9 SR 365.4 SS 87.9
 CRT .8119 CRS -.5565 CST -.8336
 LSA 439.2 MSA 141.3 SSA 41.9
 EL1 435.0 EL2 132.8 ALF 55.26

LAUNCH DATE FEB 11 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.287 GAL -5.40 AZL 89.35 MCA 103.53 SMA 126.04 ECC .19502 INC .6533 V1 30.173
 RP 108.51 LAP .64 LOP 245.62 VP 37.324 GAP -7.94 AZP 90.15 TAL 203.46 TAP 306.98 RCA 101.46 APO 150.62 V2 34.923
 RC 59.010 GL 4.25 GP 19.71 ZAL 133.67 ZAP 28.01 ETS 320.71 ZAE 143.89 ETE 24.04 ZAC 127.96 ETC 145.42 CLP -20.31

PLANETOCENTRIC CONIC

C3 17.473 VHL 4.180 DLA 7.19 RAL 5.91 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 6.083 OPA 33.15 RAP 35.60 ECC 1.2876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 27 55 2407.24 -23.73 54.07 227.05 105.92 2 8 2 1807.2 -21.32 46.23
 90.00 15 13 55 4602.08 12.63 194.81 224.02 64.45 16 30 37 4002.1 9.09 187.92
 100.00 2 52 42 2133.78 -24.79 33.61 226.70 107.26 3 28 16 1533.8 -22.19 25.77
 100.00 16 31 49 4350.76 13.62 175.83 223.52 63.13 17 44 20 3750.8 9.91 169.00
 110.00 4 8 49 1895.61 -27.62 14.43 225.61 110.99 4 40 24 1295.6 -24.52 6.64
 110.00 17 32 12 4161.71 16.25 159.99 222.03 59.51 18 41 33 3561.7 12.09 153.36

DIFFERENTIAL CORRECTIONS

TDE -.1631 TRA -.2702 TC3 .9024 BAU .2395
 RDE -.2489 RRA .1650 RC3 .4870 FAU .06048
 FDE -.1429 FRA -.2795 FC3-2.9964 BSP .2931
 BOE .2976 BRA .3166 BC3 1.0254 FSP -614

MID-COURSE EXECUTION ACCURACY

SGT 871.0 SGR 578.0 SG3 219.6
 RRT .5926 RRF -.7085 RTF -.7687
 SGB 1045.3 R23 -.1344 R13 -.8194
 SG1 955.2 SG2 424.5 THA 27.28

ORBIT DETERMINATION ACCURACY

ST 251.1 SR 348.1 SS 125.9
 CRT .7881 CRS -.6949 CST -.9151
 LSA 421.3 MSA 143.4 SSA 45.0
 EL1 408.6 EL2 131.7 ALF 56.44

LAUNCH DATE FEB 11 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.389 GAL -5.44 AZL 89.53 MCA 106.71 SMA 126.71 ECC .18997 INC .4687 V1 30.173
 RP 108.55 LAP .45 LOP 248.80 VP 37.388 GAP -7.24 AZP 90.14 TAL 204.50 TAP 311.21 RCA 102.64 APO 150.78 V2 34.911
 RC 60.976 GL 3.10 GP 21.30 ZAL 135.00 ZAP 31.17 ETS 322.95 ZAE 143.49 ETE 27.02 ZAC 127.12 ETC 144.35 CLP -23.31

PLANETOCENTRIC CONIC

C3 16.999 VHL 4.123 DLA 5.63 RAL 5.21 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 5.752 OPA 34.69 RAP 35.03 ECC 1.2798
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 37 1 2351.75 -22.64 50.36 225.39 107.47 2 16 13 1751.7 -20.04 42.66
 90.00 14 59 13 4644.86 13.87 197.33 223.04 65.07 16 16 38 4044.9 10.40 190.38
 100.00 3 1 1 2080.79 -23.67 30.07 225.02 108.81 3 35 42 1480.8 -20.89 22.38
 100.00 16 17 54 4391.05 14.85 178.19 222.56 63.76 17 31 5 3791.0 11.21 171.30
 110.00 4 15 22 1848.11 -26.42 11.26 223.88 112.52 4 46 10 1248.1 -23.14 3.64
 110.00 17 20 2 4196.49 17.44 161.98 221.12 60.13 18 29 59 3596.5 13.34 155.28

DIFFERENTIAL CORRECTIONS

TDE -.1457 TRA -.2594 TC3 .9251 BAU .2478
 RDE -.2287 RRA .1740 RC3 .5772 FAU .06607
 FDE -.2176 FRA -.3323 FC3-3.3651 BSP .3007
 BOE .2712 BRA .3123 BC3 1.0904 FSP -692

MID-COURSE EXECUTION ACCURACY

SGT 868.4 SGR 621.7 SG3 244.5
 RRT .6286 RRF -.7601 RTF -.7681
 SGB 1068.0 R23 -.1505 R13 -.8333
 SG1 977.9 SG2 429.4 THA 30.78

ORBIT DETERMINATION ACCURACY

ST 230.9 SR 326.4 SS 170.5
 CRT .7530 CRS -.7570 CST -.9395
 LSA 406.5 MSA 146.4 SSA 47.5
 EL1 377.6 EL2 131.3 ALF 57.57

LAUNCH DATE FEB 11 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.479 GAL -5.48 AZL 89.72 MCA 109.89 SMA 127.31 ECC .18557 INC .2781 V1 30.173
 RP 108.58 LAP .26 LOP 251.98 VP 37.443 GAP -6.57 AZP 90.09 TAL 205.47 TAP 315.36 RCA 103.68 APO 150.93 V2 34.900
 RC 63.000 GL 1.87 GP 23.06 ZAL 136.18 ZAP 34.56 ETS 324.96 ZAE 143.17 ETE 30.39 ZAC 126.01 ETC 143.37 CLP -26.48

PLANETOCENTRIC CONIC

C3 16.608 VHL 4.075 DLA 4.05 RAL 4.66 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 5.450 OPA 36.29 RAP 34.18 ECC 1.2733
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 46 46 2296.83 -21.48 46.76 224.00 108.91 2 25 3 1696.8 -18.70 39.19
 90.00 14 45 5 4689.10 15.13 199.98 222.33 65.77 16 3 14 4089.1 11.73 192.95
 100.00 3 10 0 2028.34 -22.48 26.63 223.62 110.24 3 43 49 1428.3 -19.52 19.08
 100.00 16 4 32 4432.83 16.09 180.67 221.87 64.47 17 18 25 3832.8 12.52 173.70
 110.00 4 22 36 1801.12 -25.16 8.19 222.43 113.94 4 52 38 1201.1 -21.71 .74
 110.00 17 8 25 4232.81 18.66 164.10 220.47 60.83 18 18 58 3632.8 14.63 157.30

DIFFERENTIAL CORRECTIONS

TDE -.1283 TRA -.2516 TC3 .9325 BAU .2561
 RDE -.2053 RRA .1840 RC3 .6789 FAU .07202
 FDE -.3060 FRA -.3859 FC3-3.7543 BSP .3090
 BOE .2421 BRA .3117 BC3 1.1535 FSP -777

MID-COURSE EXECUTION ACCURACY

SGT 857.9 SGR 675.9 SG3 271.1
 RRT .6566 RRF -.8064 RTF -.7636
 SGB 1092.2 R23 -.1642 R13 -.8484
 SG1 1001.0 SG2 436.9 THA 34.94

ORBIT DETERMINATION ACCURACY

ST 210.6 SR 299.5 SS 221.0
 CRT .7003 CRS -.7828 CST -.9396
 LSA 397.6 MSA 149.6 SSA 49.2
 EL1 341.6 EL2 131.8 ALF 58.58

LAUNCH DATE FEB 11 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.557 GAL -5.50 AZL 89.92 MCA 113.06 SMA 127.83 ECC .18175 INC .0785 V1 30.173
 RP 108.62 LAP .07 LOP 255.16 VP 37.490 GAP -5.93 AZP 90.03 TAL 206.35 TAP 319.42 RCA 104.60 APO 151.07 V2 34.889
 RC 65.076 GL .54 GP 24.98 ZAL 137.21 ZAP 38.17 ETS 326.82 ZAE 142.87 ETE 34.20 ZAC 124.63 ETC 142.52 CLP -29.86

PLANETOCENTRIC CONIC

C3 16.290 VHL 4.036 DLA 2.44 RAL 4.27 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 5.179 OPA 37.98 RAP 32.99 ECC 1.2681
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 57 15 2242.20 -20.23 43.24 222.88 110.25 2 34 37 1642.2 -17.29 35.80
 90.00 14 31 29 4734.88 16.39 202.75 221.88 66.58 15 50 24 4134.9 13.08 195.63
 100.00 3 19 43 1976.16 -21.21 23.27 222.48 111.57 3 52 39 1376.2 -18.09 15.86
 100.00 15 51 41 4476.16 17.35 183.28 221.43 65.27 17 6 17 3876.2 13.87 176.21
 110.00 4 30 35 1754.39 -23.84 5.21 221.25 115.26 4 59 49 1154.4 -20.23 357.92
 110.00 16 57 19 4270.69 19.90 166.33 220.08 61.62 18 8 30 3670.7 15.96 159.43

DIFFERENTIAL CORRECTIONS

TDE -.1105 TRA -.2458 TC3 .9261 BAU .2657
 RDE -.1776 RRA .1953 RC3 .7942 FAU .07833
 FDE -.4111 FRA -.4401 FC3-4.1627 BSP .3216
 BOE .2092 BRA .3139 BC3 1.2200 FSP -873

MID-COURSE EXECUTION ACCURACY

SGT 839.9 SGR 742.6 SG3 299.6
 RRT .6764 RRF -.8468 RTF -.7561
 SGB 1121.1 R23 -.1705 R13 -.8660
 SG1 1028.3 SG2 446.8 THA 39.83

ORBIT DETERMINATION ACCURACY

ST 190.0 SR 266.1 SS 278.0
 CRT .6182 CRS -.7835 CST -.9232
 LSA 398.4 MSA 151.7 SSA 49.9
 EL1 298.7 EL2 133.1 ALF 59.53

LAUNCH DATE FEB 11 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 258.659

RL 147.66 LAL .00 LOL 142.09 VL 27.625 GAL -5.53 AZL 90.13 HCA 116.24 SMA 128.30 ECC .17844 INC .1271 V1 30.173
 RP 108.65 LAP -.11 LOP 258.33 VP 37.530 GAP -5.32 AZP 89.94 TAL 207.14 TAP 323.38 RCA 105.40 APO 151.19 V2 34.878
 RC 67.198 GL -.88 GP 27.08 ZAL 138.07 ZAP 42.02 ETS 328.63 ZAE 142.54 ETE 38.47 ZAC 122.98 ETC 141.84 CLP -33.45

PLANETOCENTRIC CONIC

C3 16.034 VHL 4.004 DLA .79 RAL 4.04 RAD 6567.6 VEL 11.723 PTH 2.07 VHP 4.938 DPA 39.73 RAP 31.43 ECC 1.2639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 8 33 2187.49 -18.90 39.77 222.02 111.48 2 45 0 1587.5 -15.82 32.46
 90.00 14 18 20 4782.37 17.65 205.66 221.70 67.49 15 38 2 4182.4 14.45 198.45
 100.00 3 30 16 1923.92 -19.87 19.97 221.60 112.81 4 2 20 1323.9 -16.61 12.70
 100.00 15 39 18 4521.17 18.61 186.03 221.27 66.17 16 54 40 3921.2 15.23 178.86
 110.00 4 39 21 1707.66 -22.45 2.29 220.33 116.48 5 7 49 1107.7 -18.71 355.15
 110.00 16 46 42 4310.19 21.17 168.70 219.96 62.51 17 58 32 3710.2 17.32 161.69

DIFFERENTIAL CORRECTIONS

TDE -.0966 TRA -.2457 TC3 .8954 BAU .2754
 RDE -.1453 RRA .2066 RC3 .9214 FAU .08462
 FDE -.5290 FRA -.4878 FC3-4.5690 BSP 3314
 BDE .1744 BRA .3210 BC3 1.2848 FSP -967

MID-COURSE EXECUTION ACCURACY

SGT 810.5 SGR 821.6 SG3 328.4
 RRT .6815 RRF -.8802 RTF -.7380
 SGB 1154.2 R23 -.1717 R13 -.8837
 SG1 1058.3 SG2 460.5 THA 45.57

ORBIT DETERMINATION ACCURACY

ST 175.2 SR 227.1 SS 338.3
 CRT .4988 CRS -.7571 CST -.8950
 LSA 413.9 MSA 151.5 SSA 49.4
 EL1 252.1 EL2 136.8 ALF 58.89

LAUNCH DATE FEB 11 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 265.210

RL 147.66 LAL .00 LOL 142.09 VL 27.683 GAL -5.54 AZL 90.35 HCA 119.41 SMA 128.70 ECC .17558 INC .3468 V1 30.173
 RP 108.68 LAP -.30 LOP 261.50 VP 37.563 GAP -4.73 AZP 89.83 TAL 207.83 TAP 327.23 RCA 106.10 APO 151.30 V2 34.867
 RC 69.360 GL -2.40 GP 29.36 ZAL 138.75 ZAP 46.08 ETS 330.45 ZAE 142.12 ETE 43.22 ZAC 121.04 ETC 141.36 CLP -37.27

PLANETOCENTRIC CONIC

C3 15.833 VHL 3.979 DLA -.90 RAL 3.97 RAD 6567.6 VEL 11.714 PTH 2.06 VHP 4.730 DPA 41.54 RAP 29.45 ECC 1.2606
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 20 49 2132.23 -17.49 36.33 221.42 112.63 2 56 21 1532.2 -14.27 29.13
 90.00 14 5 33 4831.89 18.91 208.75 221.78 68.52 15 26 4 4231.9 15.83 201.43
 100.00 3 41 44 1871.19 -18.44 16.71 220.99 113.95 4 12 56 1271.2 -15.05 9.56
 100.00 15 27 18 4568.17 19.87 188.94 221.37 67.20 16 43 26 3968.2 16.61 181.67
 110.00 4 49 2 1660.56 -20.99 359.41 219.69 117.62 5 16 42 1060.6 -17.12 352.42
 110.00 16 36 30 4351.56 22.44 171.23 220.11 63.51 17 49 2 3751.6 18.70 164.10

DIFFERENTIAL CORRECTIONS

TDE -.0857 TRA -.2501 TC3 .8418 BAU .2867
 RDE -.1072 RRA .2178 RC3 1.0610 FAU .09074
 FDE -.6612 FRA -.5272 FC3-4.9618 BSP 3432
 BDE .1372 BRA .3317 BC3 1.3544 FSP -1062

MID-COURSE EXECUTION ACCURACY

SGT 770.5 SGR 913.9 SG3 357.0
 RRT .6698 RRF -.9070 RTF -.7080
 SGB 1195.4 R23 -.1622 R13 -.9026
 SG1 1096.1 SG2 477.0 THA 52.18

ORBIT DETERMINATION ACCURACY

ST 165.2 SR 182.6 SS 403.0
 CRT .3110 CRS -.6806 CST -.8573
 LSA 445.6 MSA 148.8 SSA 47.8
 EL1 200.4 EL2 143.0 ALF 53.91

LAUNCH DATE FEB 11 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 271.732

RL 147.66 LAL .00 LOL 142.09 VL 27.733 GAL -5.55 AZL 90.58 HCA 122.58 SMA 129.04 ECC .17313 INC .5800 V1 30.173
 RP 108.72 LAP -.49 LOP 264.67 VP 37.591 GAP -4.17 AZP 89.69 TAL 208.41 TAP 330.98 RCA 106.70 APO 151.38 V2 34.858
 RC 71.560 GL -4.05 GP 31.81 ZAL 139.24 ZAP 50.35 ETS 332.35 ZAE 141.53 ETE 48.43 ZAC 118.83 ETC 141.10 CLP -41.34

PLANETOCENTRIC CONIC

C3 15.683 VHL 3.960 DLA -2.65 RAL 4.07 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 4.555 DPA 43.37 RAP 27.03 ECC 1.2581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 12 2075.88 -15.98 32.89 221.10 113.69 3 8 48 1475.9 -12.64 25.80
 90.00 13 52 59 4883.95 20.18 212.05 222.15 69.70 15 14 23 4283.9 17.23 204.61
 100.00 3 54 18 1817.46 -16.93 13.44 220.65 115.01 4 24 36 1217.5 -13.42 6.40
 100.00 15 15 33 4617.60 21.15 192.06 221.75 68.37 16 32 31 4017.6 18.02 184.66
 110.00 4 59 43 1612.68 -19.45 356.55 219.30 118.68 5 26 36 1012.7 -15.47 349.69
 110.00 16 26 38 4395.14 23.74 173.95 220.53 64.65 17 39 53 3795.1 20.13 166.67

DIFFERENTIAL CORRECTIONS

TDE -.0776 TRA -.2573 TC3 .7673 BAU .3012
 RDE -.0614 RRA .2291 RC3 1.2142 FAU .09658
 FDE -.8102 FRA -.5585 FC3-5.3313 BSP 3621
 BDE .0990 BRA .3445 BC3 1.4364 FSP -1160

MID-COURSE EXECUTION ACCURACY

SGT 721.7 SGR 1021.2 SG3 385.0
 RRT .6389 RRF -.9284 RTF -.6633
 SGB 1250.5 R23 -.1392 R13 -.9225
 SG1 1149.0 SG2 493.4 THA 59.50

ORBIT DETERMINATION ACCURACY

ST 159.5 SR 136.5 SS 473.8
 CRT -.0286 CRS -.4646 CST -.8149
 LSA 495.6 MSA 144.6 SSA 45.0
 EL1 159.7 EL2 136.3 ALF 174.82

LAUNCH DATE FEB 11 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 278.227

RL 147.66 LAL .00 LOL 142.09 VL 27.774 GAL -5.55 AZL 90.83 HCA 125.74 SMA 129.33 ECC .17102 INC .8303 V1 30.173
 RP 108.74 LAP -.67 LOP 267.84 VP 37.612 GAP -3.63 AZP 89.52 TAL 208.87 TAP 334.62 RCA 107.21 APO 151.45 V2 34.848
 RC 73.792 GL -5.83 GP 34.41 ZAL 139.53 ZAP 54.79 ETS 334.42 ZAE 140.70 ETE 54.05 ZAC 116.37 ETC 141.11 CLP -45.66

PLANETOCENTRIC CONIC

C3 15.584 VHL 3.948 DLA -4.46 RAL 4.35 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 4.416 DPA 45.22 RAP 24.12 ECC 1.2565
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 48 54 2017.79 -14.36 29.39 221.05 114.67 3 22 32 1417.8 -10.91 22.41
 90.00 13 40 30 4939.17 21.44 215.60 222.81 71.05 15 2 49 4339.2 18.66 208.04
 100.00 4 8 9 1762.15 -15.30 10.13 220.58 115.99 4 37 31 1162.1 -11.69 3.21
 100.00 15 3 56 4670.04 22.42 195.43 222.43 69.70 16 21 46 4070.0 19.46 187.89
 110.00 5 11 36 1563.53 -17.82 353.67 219.20 119.67 5 37 39 963.5 -13.74 346.94
 110.00 16 16 59 4441.42 25.06 176.90 221.26 65.95 17 31 0 3841.4 21.59 169.46

DIFFERENTIAL CORRECTIONS

TDE -.0773 TRA -.2705 TC3 .6617 BAU .3178
 RDE -.0083 RRA .2377 RC3 1.3746 FAU .10143
 FDE -.9662 FRA -.5702 FC3-5.6347 BSP 3818
 BDE .0778 BRA .3601 BC3 1.5256 FSP -1243

MID-COURSE EXECUTION ACCURACY

SGT 663.8 SGR 1139.2 SG3 409.3
 RRT .5713 RRF -.9446 RTF -.5850
 SGB 1318.5 R23 -.1084 R13 -.9400
 SG1 1215.6 SG2 510.5 THA 67.39

ORBIT DETERMINATION ACCURACY

ST 163.7 SR 109.5 SS 545.8
 CRT -.5802 CRS .0845 CST -.7888
 LSA 561.6 MSA 140.2 SSA 41.5
 EL1 179.3 EL2 81.4 ALF 152.73

LAUNCH DATE FEB 11 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 284.694

RL 147.66 LAL .00 LOL 142.09 VL 27.808 GAL -5.54 AZL 91.10 HCA 128.91 SMA 129.56 ECC .16922 INC 1.1012 V1 30.173
 RP 108.77 LAP -.86 LOP 271.01 VP 37.629 GAP -3.12 AZP 89.31 TAL 209.23 TAP 338.14 RCA 107.64 APO 151.49 V2 34.839
 RC 76.053 GL -7.76 GP 37.15 ZAL 139.59 ZAP 59.35 ETS 336.70 ZAE 139.56 ETE 59.98 ZAC 113.68 ETC 141.39 CLP -50.25

PLANETOCENTRIC CONIC

C3 15.538 VHL 3.942 DLA -6.37 RAL 4.82 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 4.314 DPA 47.03 RAP 20.73 ECC 1.2557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 5 13 1957.16 -12.61 25.80 221.29 115.57 3 37 50 1357.2 -9.06 18.92
 90.00 13 27 53 4998.45 22.70 219.49 223.78 72.60 14 51 11 4398.5 20.10 211.78
 100.00 4 23 32 1704.52 -13.56 6.74 220.81 116.90 4 51 56 1104.5 -9.84 359.93
 100.00 14 52 15 4726.32 23.71 199.12 223.42 71.24 16 11 1 4126.3 20.92 191.43
 110.00 5 24 51 1512.55 -16.08 350.75 219.38 120.58 5 50 3 912.5 -11.90 344.13
 110.00 16 7 25 4491.06 26.39 180.14 222.31 67.45 17 22 16 3891.1 23.10 172.53

DIFFERENTIAL CORRECTIONS

TOE -.0849 TRA -.2877 TC3 .5279 BAU .3381
 RDE .0538 RRA .2431 RC3 1.5396 FAU .10504
 FDE -1.1285 FRA -.5618 FC3 -5.8527 BSP 4073
 BDE .1005 BRA .3767 BC3 1.6276 FSP -1312

MID-COURSE EXECUTION ACCURACY

SGT 604.5 SGR 1267.2 SG3 429.0
 RRT .4515 RRF -.9569 RTF -.4571
 SGB 1404.0 R23 -.0718 R13 -.9546
 SG1 1302.2 SG2 524.9 THA 75.42

ORBIT DETERMINATION ACCURACY

ST 176.9 SR 137.2 SS 620.5
 CRT -.9335 CRS .6992 CST -.7869
 LSA 644.2 MSA 136.8 SSA 37.4
 EL1 220.4 EL2 39.5 ALF 142.70

LAUNCH DATE FEB 11 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 291.133

RL 147.66 LAL .00 LOL 142.09 VL 27.834 GAL -5.52 AZL 91.40 HCA 132.07 SMA 129.75 ECC .16769 INC 1.3972 V1 30.173
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.641 GAP -2.62 AZP 89.06 TAL 209.48 TAP 341.55 RCA 107.99 APO 151.51 V2 34.831
 RC 78.340 GL -9.86 GP 40.00 ZAL 139.42 ZAP 63.99 ETS 339.26 ZAE 138.07 ETE 66.10 ZAC 110.81 ETC 141.96 CLP -55.09

PLANETOCENTRIC CONIC

C3 15.552 VHL 3.944 DLA -8.38 RAL 5.47 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 4.252 DPA 48.79 RAP 16.86 ECC 1.2559
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 23 29 1893.04 -10.69 22.06 221.86 116.38 3 55 2 1293.0 -7.06 15.26
 90.00 13 14 52 5062.99 23.95 223.81 225.11 74.42 14 39 15 4463.0 21.58 215.94
 100.00 4 40 45 1643.73 -11.66 3.23 221.36 117.72 5 8 9 1043.7 -7.86 356.50
 100.00 14 40 16 4787.53 24.98 203.22 224.77 73.03 16 0 3 4187.5 22.42 195.36
 110.00 5 39 44 1459.05 -14.20 347.74 219.88 121.43 6 4 3 859.1 -9.94 341.23
 110.00 15 57 46 4544.97 27.75 183.75 223.72 69.19 17 13 31 3945.0 24.67 175.93

DIFFERENTIAL CORRECTIONS

TOE -.1015 TRA -.3069 TC3 .3689 BAU .3630
 RDE -.1272 RRA .2449 RC3 1.7063 FAU .10724
 FDE -1.2953 FRA -.5352 FC3 -5.9700 BSP 4426
 BDE .1627 BRA .3926 BC3 1.7457 FSP -1370

MID-COURSE EXECUTION ACCURACY

SGT 556.3 SGR 1405.2 SG3 443.3
 RRT .2587 RRF -.9662 RTF -.2585
 SGB 1511.3 R23 -.0348 R13 -.9657
 SG1 1413.8 SG2 534.1 THA 83.17

ORBIT DETERMINATION ACCURACY

ST 200.3 SR 217.7 SS 698.8
 CRT -.9514 CRS .9149 CST -.8093
 LSA 746.1 MSA 134.7 SSA 32.8
 EL1 292.3 EL2 46.0 ALF 132.49

LAUNCH DATE FEB 11 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 297.544

RL 147.66 LAL .00 LOL 142.09 VL 27.855 GAL -5.49 AZL 91.72 HCA 135.23 SMA 129.90 ECC .16640 INC 1.7241 V1 30.173
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.649 GAP -2.15 AZP 88.78 TAL 209.62 TAP 344.85 RCA 108.28 APO 151.51 V2 34.824
 RC 80.651 GL -12.18 GP 42.93 ZAL 138.98 ZAP 68.63 ETS 342.13 ZAE 136.20 ETE 72.25 ZAC 107.81 ETC 142.83 CLP -60.16

PLANETOCENTRIC CONIC

C3 15.638 VHL 3.955 DLA -10.54 RAL 6.34 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 4.233 DPA 50.45 RAP 12.53 ECC 1.2574
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 10 1824.17 -8.58 18.10 222.80 117.09 4 14 34 1224.2 -4.88 11.38
 90.00 13 1 5 5134.36 25.16 228.68 226.82 76.57 14 26 39 4534.4 23.07 220.64
 100.00 5 0 16 1578.67 -9.57 359.53 222.27 118.45 5 26 34 978.7 -5.70 352.88
 100.00 14 27 40 4855.09 26.25 207.84 226.52 75.15 15 48 36 4255.1 23.95 199.80
 110.00 5 56 36 1402.24 -12.16 344.60 220.73 122.20 6 19 58 802.2 -7.82 338.19
 110.00 15 47 49 4604.29 29.12 187.82 225.54 71.25 17 4 34 4004.3 26.28 179.79

DIFFERENTIAL CORRECTIONS

TOE -.1325 TRA -.3292 TC3 .1801 BAU .3908
 RDE .2104 RRA .2386 RC3 1.8603 FAU .10731
 FDE -1.4517 FRA -.4797 FC3 -5.9405 BSP 4811
 BDE .2486 BRA .4066 BC3 1.8690 FSP -1395

MID-COURSE EXECUTION ACCURACY

SGT 540.9 SGR 1543.2 SG3 448.9
 RRT -.0234 RRF -.9731 RTF .0275
 SGB 1635.2 R23 -.0016 R13 -.9731
 SG1 1543.3 SG2 540.7 THA 90.53

ORBIT DETERMINATION ACCURACY

ST 240.9 SR 325.6 SS 774.8
 CRT -.9393 CRS .9710 CST -.8502
 LSA 863.5 MSA 134.1 SSA 28.4
 EL1 399.4 EL2 67.4 ALF 125.99

LAUNCH DATE FEB 11 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 303.927

RL 147.66 LAL .00 LOL 142.09 VL 27.869 GAL -5.45 AZL 92.09 HCA 138.39 SMA 130.00 ECC .16531 INC 2.0893 V1 30.173
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.653 GAP -1.69 AZP 88.44 TAL 209.65 TAP 348.03 RCA 108.51 APO 151.49 V2 34.816
 RC 82.981 GL -14.73 GP 45.90 ZAL 138.25 ZAP 73.19 ETS 345.36 ZAE 133.96 ETE 78.32 ZAC 104.74 ETC 143.99 CLP -65.45

PLANETOCENTRIC CONIC

C3 15.818 VHL 3.977 DLA -12.86 RAL 7.43 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 4.259 DPA 52.00 RAP 7.81 ECC 1.2603
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 56 1748.93 -6.23 13.83 224.18 117.68 4 37 5 1148.9 -2.47 7.16
 90.00 12 46 3 5214.76 26.32 234.29 229.00 79.15 14 12 58 4614.8 24.55 226.07
 100.00 5 22 38 1507.95 -7.25 355.56 223.62 119.08 5 47 46 908.0 -3.32 348.98
 100.00 14 14 3 4930.97 27.46 213.15 228.73 77.70 15 36 14 4331.0 25.49 204.91
 110.00 6 15 54 1341.15 -9.92 341.28 222.00 122.88 6 38 15 741.1 -5.52 334.96
 110.00 15 37 16 4670.54 30.48 192.50 227.86 73.71 16 55 7 4070.5 27.94 184.22

DIFFERENTIAL CORRECTIONS

TOE -.1787 TRA -.3508 TC3 -.0288 BAU .4225
 RDE .3068 RRA .2250 RC3 1.9977 FAU .10542
 FDE -1.5993 FRA -.4051 FC3 -5.7699 BSP 5289
 BDE .3551 BRA .4167 BC3 1.9979 FSP -1400

MID-COURSE EXECUTION ACCURACY

SGT 579.2 SGR 1682.5 SG3 446.7
 RRT -.3309 RRF -.9783 RTF .3368
 SGB 1779.4 R23 .0260 R13 -.9781
 SG1 1694.7 SG2 542.7 THA 97.25

ORBIT DETERMINATION ACCURACY

ST 300.8 SR 455.6 SS 851.8
 CRT -.9438 CRS .9887 CST -.8922
 LSA 1002.5 MSA 134.7 SSA 24.1
 EL1 539.4 EL2 83.9 ALF 122.82

LAUNCH DATE FEB 11 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 310.283

RL 147.66 LAL .00 LOL 142.09 VL 27.878 GAL -5.41 AZL 92.50 HCA 141.54 SMA 130.06 ECC .16441 INC 2.5028 V1 30.173
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.654 GAP -1.25 AZP 88.04 TAL 209.57 TAP 351.11 RCA 108.68 APO 151.44 V2 34.810
 RC 85.328 GL -17.57 GP 48.90 ZAL 137.19 ZAP 77.59 ETS 348.96 ZAE 131.36 ETE 84.19 ZAC 101.64 ETC 145.41 CLP -70.91

PLANETOCENTRIC CONIC

C3 16.121 VHL 4.015 DLA -15.38 RAL 8.79 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 4.335 DPA 53.42 RAP 2.75 ECC 1.2653
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 47 1664.98 -3.55 9.11 226.09 118.11 5 3 32 1065.0 .24 2.48
 90.00 12 29 0 5307.35 27.33 240.88 231.70 82.30 13 57 28 4707.4 25.99 232.47
 100.00 5 48 43 1429.65 -4.64 351.21 225.48 119.56 6 12 33 829.6 -.67 344.68
 100.00 13 58 45 5017.91 28.57 219.38 231.49 80.79 15 22 23 4417.9 27.00 210.93
 110.00 6 38 14 1274.53 -7.44 337.72 223.76 123.46 6 59 29 674.5 -2.99 331.46
 110.00 15 25 44 4745.79 31.79 197.97 230.75 76.71 16 44 49 4145.8 29.63 189.43

DIFFERENTIAL CORRECTIONS

TOE -.2460 TRA -4.3707 TC3 -.2556 BAU .4557
 RDE .4143 RRA .1987 RC3 2.0989 FAU .10110
 FDE -1.7222 FRA -.3048 FC3 -5.4294 BSP 5781
 BDE .4818 BRA .4206 BC3 2.1144 FSP -1366

MID-COURSE EXECUTION ACCURACY

SGT 682.9 SGR 1810.2 SG3 434.2
 RRT -.5782 RRF -.9821 RTF .5842
 SGB 1934.8 R23 .0487 R13 -.9811
 SG1 1856.9 SG2 543.2 THA 103.48

ORBIT DETERMINATION ACCURACY

ST 387.8 SR 599.9 SS 923.1
 CRT -.9560 CRS .9952 CST -.9268
 LSA 1159.0 MSA 136.7 SSA 20.2
 EL1 707.7 EL2 96.4 ALF 122.39

LAUNCH DATE FEB 11 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 316.611

RL 147.66 LAL .00 LOL 142.09 VL 27.882 GAL -5.35 AZL 92.98 HCA 144.70 SMA 130.09 ECC .16366 INC 2.9777 V1 30.173
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.651 GAP -.83 AZP 87.57 TAL 209.40 TAP 354.09 RCA 108.80 APO 151.38 V2 34.804
 RC 87.691 GL -20.73 GP 51.91 ZAL 135.76 ZAP 81.72 ETS 352.92 ZAE 128.45 ETE 89.81 ZAC 98.59 ETC 147.07 CLP -76.50

PLANETOCENTRIC CONIC

C3 16.597 VHL 4.074 DLA -18.13 RAL 10.44 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 4.466 DPA 54.74 RAP 357.43 ECC 1.2731
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 9 14 1568.59 -.45 3.73 228.69 118.31 5 35 23 968.6 3.34 357.10
 90.00 12 8 42 5417.03 28.08 248.81 235.00 86.21 13 38 59 4817.0 27.26 240.24
 100.00 6 19 48 1340.86 -1.64 346.32 228.02 119.85 6 42 9 740.9 2.34 339.80
 100.00 13 40 49 5120.00 29.45 226.84 234.87 84.62 15 6 9 4520.0 28.39 218.19
 110.00 7 4 31 1200.77 -4.65 333.83 226.15 123.90 7 24 32 600.8 -.17 327.61
 110.00 15 12 35 4832.85 32.96 204.49 234.33 80.39 16 33 8 4232.9 31.29 195.67

DIFFERENTIAL CORRECTIONS

TOE -.3379 TRA -.3848 TC3 -.4863 BAU .4902
 RDE .5356 RRA .1594 RC3 2.1550 FAU .09471
 FDE -1.8209 FRA -.1891 FC3 -4.9402 BSP 6317
 BDE .6333 BRA .4165 BC3 2.2091 FSP -1304

MID-COURSE EXECUTION ACCURACY

SGT 840.9 SGR 1925.1 SG3 412.9
 RRT -.7338 RRF -.9851 RTF .7393
 SGB 2100.8 R23 .0671 R13 -.9831
 SG1 2029.7 SG2 541.8 THA 109.20

ORBIT DETERMINATION ACCURACY

ST 505.2 SR 758.4 SS 989.8
 CRT -.9676 CRS .9979 CST -.9514
 LSA 1338.0 MSA 139.7 SSA 16.6
 EL1 904.9 EL2 106.9 ALF 123.33

LAUNCH DATE FEB 11 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 322.911

RL 147.66 LAL .00 LOL 142.09 VL 27.881 GAL -5.29 AZL 93.53 HCA 147.85 SMA 130.09 ECC .16305 INC 3.5326 V1 30.173
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.646 GAP -.42 AZP 87.01 TAL 209.12 TAP 356.97 RCA 108.88 APO 151.30 V2 34.799
 RC 90.065 GL -24.27 GP 54.96 ZAL 133.92 ZAP 85.51 ETS 357.26 ZAE 125.26 ETE 95.12 ZAC 95.60 ETC 148.94 CLP -82.17

PLANETOCENTRIC CONIC

C3 17.322 VHL 4.162 DLA -21.16 RAL 12.43 RAD 6567.7 VEL 11.777 PTH 2.08 VHP 4.662 DPA 55.97 RAP 351.88 ECC 1.2851
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 4 1452.82 3.29 357.27 232.23 118.14 6 15 17 852.8 7.03 350.58
 90.00 11 42 46 5552.50 28.30 258.71 238.96 91.16 13 15 18 4952.5 28.16 250.05
 100.00 6 58 4 1236.56 1.89 340.60 231.45 119.84 7 18 41 636.6 5.85 334.05
 100.00 13 18 27 5243.99 29.89 236.02 238.97 89.43 14 45 50 4644.0 29.49 227.24
 110.00 7 36 5 1117.44 -1.48 329.47 229.35 124.16 7 54 42 517.4 3.01 323.26
 110.00 14 56 56 4935.87 33.86 212.39 238.74 84.99 16 19 11 4335.9 32.79 203.32

DIFFERENTIAL CORRECTIONS

TOE -.4603 TRA -.3886 TC3 -.7058 BAU .5253
 RDE .6733 RRA .1061 RC3 2.1558 FAU .08664
 FDE -1.8936 FRA -.0671 FC3 -4.3303 BSP 6902
 BDE .8157 BRA .4028 BC3 2.2684 FSP -1220

MID-COURSE EXECUTION ACCURACY

SGT 1037.2 SGR 2025.9 SG3 384.4
 RRT -.8241 RRF -.9874 RTF .8291
 SGB 2275.9 R23 .0813 R13 -.9844
 SG1 2211.4 SG2 538.2 THA 114.42

ORBIT DETERMINATION ACCURACY

ST 656.9 SR 929.7 SS 1051.0
 CRT -.9766 CRS .9991 CST -.9679
 LSA 1542.7 MSA 142.9 SSA 13.6
 EL1 1132.4 EL2 115.9 ALF 125.03

LAUNCH DATE FEB 11 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 329.184

RL 147.66 LAL .00 LOL 142.09 VL 27.877 GAL -5.21 AZL 94.19 HCA 150.99 SMA 130.05 ECC .16257 INC 4.1936 V1 30.173
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.639 GAP -.04 AZP 86.33 TAL 208.76 TAP 359.75 RCA 108.91 APO 151.20 V2 34.795
 RC 92.449 GL -28.23 GP 58.05 ZAL 131.62 ZAP 88.88 ETS 359.75 ZAE 121.82 ETE 100.15 ZAC 92.71 ETC 151.01 CLP -87.89

PLANETOCENTRIC CONIC

C3 18.419 VHL 4.292 DLA -24.49 RAL 14.83 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 4.936 DPA 57.15 RAP 346.09 ECC 1.3031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 45 1300.02 8.13 348.65 237.18 117.22 7 9 25 700.0 11.72 341.81
 90.00 11 5 16 5733.88 27.34 271.88 243.49 97.69 12 40 50 5133.9 28.12 263.30
 100.00 7 47 56 1105.73 6.29 333.38 236.19 119.28 8 6 22 505.7 10.15 326.72
 100.00 12 47 46 5403.41 29.41 247.84 243.76 95.63 14 17 49 4803.4 29.87 239.06
 110.00 8 15 7 1020.46 2.23 324.41 233.67 124.12 8 32 8 420.5 6.69 318.16
 110.00 14 37 4 5061.44 34.18 222.18 244.07 90.77 16 1 25 4461.4 33.90 212.94

DIFFERENTIAL CORRECTIONS

TOE -.6222 TRA -.3772 TC3 -.8970 BAU .5603
 RDE .8307 RRA .0372 RC3 2.0909 FAU .07731
 FDE -1.9392 FRA .0541 FC3 -3.6339 BSP 7552
 BDE 1.0379 BRA .3791 BC3 2.2752 FSP -1123

MID-COURSE EXECUTION ACCURACY

SGT 1260.6 SGR 2110.4 SG3 350.3
 RRT -.8771 RRF -.9893 RTF .8821
 SGB 2458.2 R23 .0921 R13 -.9855
 SG1 2399.8 SG2 532.5 THA 119.23

ORBIT DETERMINATION ACCURACY

ST 847.4 SR 1110.4 SS 1104.8
 CRT -.9832 CRS .9996 CST -.9787
 LSA 1774.9 MSA 145.9 SSA 11.0
 EL1 1391.3 EL2 123.5 ALF 127.22

LAUNCH DATE FEB 11 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 335.429

RL 147.66 LAL .00 LOL 142.09 VL 27.868 GAL -5.13 AZL 95.00 HCA 154.13 SMA 129.99 ECC .16219 INC 4.9997 V1 30.173
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.629 GAP .34 AZP 85.50 TAL 208.30 TAP 2.43 RCA 108.91 APO 151.08 V2 34.791
 RC 94.840 GL -32.66 GP 61.25 ZAL 128.79 ZAP 91.75 ETS 7.04 ZAE 118.15 ETE 104.95 ZAC 89.92 ETC 153.30 CLP -93.65

PLANETOCENTRIC CONIC

C3 20.091 VHL 4.482 CLA -28.15 RAL 17.74 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 5.308 DPA 58.32 RAP 340.00 ECC 1.3306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 40 52 981.90 17.37 329.87 245.42 112.72 8 57 13 381.9 20.30 322.42
 90.00 9 35 22 805.03 21.65 318.66 247.14 108.72 9 48 47 205.0 24.00 310.78
 100.00 9 3 51 907.50 12.71 322.17 243.18 117.28 9 18 59 307.5 16.27 315.18
 100.00 11 55 3 5642.69 26.57 265.02 248.74 104.22 13 29 6 5042.7 28.26 256.63
 110.00 9 6 1 900.72 6.78 318.12 239.64 123.59 9 21 1 300.7 11.14 311.75
 110.00 14 9 23 5222.23 33.33 234.64 250.27 98.09 15 36 26 4622.2 34.08 225.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.8362 TRA -.3431 TC3-1.0386 BAU .5895 SGT 1502.3 SGR 2157.2 SG3 309.5 ST 1079.6 SR 1282.6 SS 1139.6
 RDE 1.0023 RRA -.0581 RC3 1.9336 FAU .06650 RRT -.9077 RRF -.9908 RTF .9132 CRT -.9874 CRS .9999 CST -.9855
 FDE -1.9419 FRA .1818 FC3-2.8657 BSP 8084 SGB 2628.7 R23 .1025 R13 -.9860 LSA 2021.6 MSA 149.9 SSA 8.7
 BDE 1.3054 BRA .3479 BC3 2.1949 FSP -989 SG1 2575.1 SG2 528.0 THA 123.92 EL1 1671.3 EL2 131.2 ALF 130.03

LAUNCH DATE FEB 11 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 341.645

RL 147.66 LAL .00 LOL 142.09 VL 27.856 GAL -5.03 AZL 96.01 HCA 157.27 SMA 129.91 ECC .16192 INC 6.0111 V1 30.173
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.617 GAP .70 AZP 84.45 TAL 207.76 TAP 5.02 RCA 108.87 APO 150.94 V2 34.788
 RC 97.236 GL -37.59 GP 64.62 ZAL 125.41 ZAP 94.06 ETS 12.57 ZAE 114.23 ETE 109.63 ZAC 87.20 ETC 155.88 CLP -99.50

PLANETOCENTRIC CONIC

C3 22.698 VHL 4.764 CLA -32.11 RAL 21.28 RAD 6567.9 VEL 12.003 PTH 2.14 VHP 5.813 DPA 59.48 RAP 333.43 ECC 1.3736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.19 7 19 8 1317.08 21.26 356.48 252.95 114.65 7 41 5 717.1 24.40 348.91
 105.81 11 25 18 5816.62 21.27 275.98 252.96 114.64 13 2 15 5216.6 24.41 268.41
 74.19 7 19 8 1317.08 21.26 356.48 252.95 114.65 7 41 5 717.1 24.40 348.91
 105.81 11 25 18 5816.62 21.27 275.98 252.96 114.64 13 2 15 5216.6 24.41 268.41
 110.00 10 22 6 724.53 13.27 308.61 248.47 121.79 10 34 10 124.5 17.38 301.91
 110.00 13 21 31 5457.18 29.72 251.97 256.58 107.72 14 52 28 4857.2 31.85 243.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.1217 TRA -.2751 TC3-1.1079 BAU .6146 SGT 1757.0 SGR 2178.9 SG3 266.7 ST 1354.5 SR 1443.3 SS 1159.4
 RDE 1.1978 RRA -.1766 RC3 1.6954 FAU .05532 RRT -.9275 RRF -.9921 RTF .9343 CRT -.9903 CRS 1.0000 CST -.9900
 FDE -1.9159 FRA .2959 FC3-2.1099 BSP 8642 SGB 2799.0 R23 .1099 R13 -.9867 LSA 2288.8 MSA 152.8 SSA 6.8
 BDE 1.6410 BRA .3270 BC3 2.0253 FSP -851 SG1 2750.2 SG2 520.4 THA 128.42 EL1 1974.5 EL2 137.3 ALF 133.16

LAUNCH DATE FEB 11 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 347.830

RL 147.66 LAL .00 LOL 142.09 VL 27.841 GAL -4.92 AZL 97.33 HCA 160.39 SMA 129.80 ECC .16173 INC 7.3260 V1 30.173
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.604 GAP 1.04 AZP 83.09 TAL 207.13 TAP 7.52 RCA 108.81 APO 150.79 V2 34.786
 RC 99.636 GL -42.98 GP 68.25 ZAL 121.46 ZAP 95.74 ETS 18.72 ZAE 110.02 ETE 114.48 ZAC 84.50 ETC 158.99 CLP -105.65

PLANETOCENTRIC CONIC

C3 26.916 VHL 5.188 CLA -36.31 RAL 25.60 RAD 6568.1 VEL 12.178 PTH 2.19 VHP 6.509 DPA 60.62 RAP 326.12 ECC 1.4430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.26 6 48 32 1504.97 22.45 11.79 261.37 119.32 7 13 37 905.0 26.17 4.44
 113.74 12 30 24 5712.55 22.46 268.52 261.38 119.31 14 5 36 5112.6 26.19 261.16
 66.26 6 48 32 1504.97 22.45 11.79 261.37 119.32 7 13 37 905.0 26.17 4.44
 113.74 12 30 24 5712.55 22.46 268.52 261.38 119.31 14 5 36 5112.6 26.19 261.16
 66.26 6 48 32 1504.97 22.45 11.79 261.37 119.32 7 13 37 905.0 26.17 4.44
 113.74 12 30 24 5712.55 22.46 268.52 261.38 119.31 14 5 36 5112.6 26.19 261.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.5122 TRA -.1552 TC3-1.0875 BAU .6324 SGT 2026.8 SGR 2166.4 SG3 223.5 ST 1671.6 SR 1569.6 SS 1159.7
 RDE 1.4156 RRA -.3240 RC3 1.3806 FAU .04419 RRT -.9413 RRF -.9932 RTF .9503 CRT -.9924 CRS 1.0000 CST -.9932
 FDE -1.8610 FRA .3937 FC3-1.4212 BSP 9216 SGB 2966.7 R23 .1133 R13 -.9878 LSA 2565.0 MSA 153.6 SSA 5.3
 BDE 2.0714 BRA .3592 BC3 1.7575 FSP -714 SG1 2923.0 SG2 507.1 THA 132.97 EL1 2288.7 EL2 141.1 ALF 136.82

LAUNCH DATE FEB 11 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 353.980

RL 147.66 LAL .00 LOL 142.09 VL 27.823 GAL -4.80 AZL 99.12 HCA 163.50 SMA 129.67 ECC .16161 INC 9.1156 V1 30.173
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.589 GAP 1.38 AZP 81.25 TAL 206.41 TAP 9.92 RCA 108.72 APO 150.63 V2 34.784
 RC 102.038 GL -48.75 GP 72.25 ZAL 116.96 ZAP 96.74 ETS 25.98 ZAE 105.43 ETE 120.04 ZAC 81.74 ETC 163.15 CLP -112.65

PLANETOCENTRIC CONIC

C3 34.129 VHL 5.842 CLA -40.57 RAL 30.90 RAD 6568.3 VEL 12.470 PTH 2.26 VHP 7.498 DPA 61.63 RAP 317.65 ECC 1.5617
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.64 6 37 7 1658.52 22.53 24.54 271.90 124.67 7 4 45 1058.5 26.91 17.58
 120.36 13 24 6 5678.05 22.55 265.73 271.91 124.66 14 58 44 5078.0 26.93 258.77
 59.64 6 37 7 1658.52 22.53 24.54 271.90 124.67 7 4 45 1058.5 26.91 17.58
 120.36 13 24 6 5678.05 22.55 265.73 271.91 124.66 14 58 44 5078.0 26.93 258.77
 59.64 6 37 7 1658.52 22.53 24.54 271.90 124.67 7 4 45 1058.5 26.91 17.58
 120.36 13 24 6 5678.05 22.55 265.73 271.91 124.66 14 58 44 5078.0 26.93 258.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -2.0677 TRA .0532 TC3 -.9681 BAU .6353 SGT 2323.0 SGR 2089.0 SG3 181.0 ST 2028.3 SR 1614.3 SS 1135.0
 RDE 1.6333 RRA -.5084 RC3 1.0007 FAU .03332 RRT -.9512 RRF -.9938 RTF .9639 CRT -.9937 CRS .9999 CST -.9954
 FDE -1.7760 FRA .4778 FC3 -.8453 BSP 9742 SGB 3124.2 R23 .1126 R13 -.9893 LSA 2825.8 MSA 151.7 SSA 4.0
 BDE 2.6350 BRA .5112 BC3 1.3924 FSP -577 SG1 3086.3 SG2 485.2 THA 138.19 EL1 2588.4 EL2 141.7 ALF 141.52

LAUNCH DATE FEB 11 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 360.086

RL 147.66 LAL .00 LOL 142.09 VL 27.803 GAL -4.67 AZL 101.71 HCA 166.60 SMA 129.53 ECC .16155 INC11.7062 V1 30.173
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.573 GAP 1.69 AZP 78.60 TAL 205.61 TAP 12.20 RCA 108.60 APO 150.45 V2 34.783
 RC 104.441 GL -54.66 GP 76.74 ZAL 112.00 ZAP 97.03 ETS 35.71 ZAE 100.30 ETE 127.83 ZAC 78.74 ETC 169.85 CLP-122.24

PLANETOCENTRIC CONIC

C3 47.509 VHL 6.893 CLA -44.55 RAL 37.36 RAD 6568.8 VEL 12.995 PTH 2.37 VHP 8.981 OPA 62.27 RAP 307.52 ECC 1.7819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.04 6 39 39 1804.93 20.81 36.02 284.63 130.33 7 9 44 1204.9 25.85 29.67
 125.96 14 13 4 5698.43 20.83 266.10 284.64 130.32 15 48 3 5098.4 25.87 259.75
 54.04 6 39 39 1804.93 20.81 36.02 284.63 130.33 7 9 44 1204.9 25.85 29.67
 125.96 14 13 4 5698.43 20.83 266.10 284.64 130.32 15 48 3 5098.4 25.87 259.75
 54.04 6 39 39 1804.93 20.81 36.02 284.63 130.33 7 9 44 1204.9 25.85 29.67
 125.96 14 13 4 5698.43 20.83 266.10 284.64 130.32 15 48 3 5098.4 25.87 259.75

DIFFERENTIAL CORRECTIONS

TDE-2.9110 TRA .4325 TC3 -.7573 BAU .6115
 RDE 1.7606 RRA -.7150 RC3 .5944 FAU .02321
 FDE-1.6731 FRA .5490 FC3 -.4229 BSP 10255
 BDE 3.4020 BRA .8356 BC3 .9627 FSP -451

MID-COURSE EXECUTION ACCURACY

SGT 2683.3 SGR 1873.2 SG3 141.6
 RRT -.9585 RRF -.9929 RTF .9775
 SGB 3272.4 R23 .1044 R13 -.9915
 SG1 3242.5 SG2 442.0 THA 145.48

ORBIT DETERMINATION ACCURACY

ST 2424.7 SR 1485.0 SS 1089.5
 CRT -.9943 CRS .9995 CST -.9972
 LSA 3041.5 MSA 143.0 SSA 2.9
 EL1 2840.1 EL2 135.3 ALF 148.58

LAUNCH DATE FEB 11 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 366.128

RL 147.66 LAL .00 LOL 142.09 VL 27.780 GAL -4.52 AZL 105.80 HCA 169.64 SMA 129.37 ECC .16150 INC15.8000 V1 30.173
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.556 GAP 1.98 AZP 74.44 TAL 204.69 TAP 14.34 RCA 108.47 APO 150.26 V2 34.783
 RC 106.844 GL -60.16 GP 81.65 ZAL 106.77 ZAP 96.57 ETS 52.75 ZAE 94.26 ETE 142.80 ZAC 75.18 ETC 184.11 CLP-141.94

PLANETOCENTRIC CONIC

C3 75.572 VHL 8.693 CLA -47.65 RAL 44.96 RAD 6569.5 VEL 14.033 PTH 2.56 VHP 11.387 OPA 62.01 RAP 295.20 ECC 2.2437
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.93 6 54 57 1955.97 16.61 46.08 299.16 135.33 7 27 33 1356.0 22.21 40.44
 130.07 14 58 24 5772.78 16.63 268.96 299.18 135.32 16 34 37 5172.8 22.22 263.31
 49.93 6 54 57 1955.97 16.61 46.08 299.16 135.33 7 27 33 1356.0 22.21 40.44
 130.07 14 58 24 5772.78 16.63 268.96 299.18 135.32 16 34 37 5172.8 22.22 263.31
 49.93 6 54 57 1955.97 16.61 46.08 299.16 135.33 7 27 33 1356.0 22.21 40.44
 130.07 14 58 24 5772.78 16.63 268.96 299.18 135.32 16 34 37 5172.8 22.22 263.31

DIFFERENTIAL CORRECTIONS

TDE-4.3061 TRA 1.2072 TC3 -.4732 BAU .5229
 RDE 1.2861 RRA -.7876 RC3 .2095 FAU .01373
 FDE-1.5738 FRA .6275 FC3 -.1573 BSP 10593
 BDE 4.4940 BRA 1.4414 BC3 .5175 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 3182.2 SGR 1202.0 SG3 106.8
 RRT -.9452 RRF -.9773 RTF .9900
 SGB 3401.7 R23 .0879 R13 -.9943
 SG1 3381.6 SG2 369.4 THA 160.10

ORBIT DETERMINATION ACCURACY

ST 2860.2 SR 878.7 SS 1036.5
 CRT -.9899 CRS .9959 CST -.9987
 LSA 3164.1 MSA 125.1 SSA 2.1
 EL1 2989.8 EL2 119.0 ALF 163.06

LAUNCH DATE FEB 11 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 372.051

RL 147.66 LAL .00 LOL 142.09 VL 27.754 GAL -4.34 AZL 113.18 HCA 172.60 SMA 129.19 ECC .16139 INC23.1819 V1 30.173
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.538 GAP 2.24 AZP 66.99 TAL 203.63 TAP 16.23 RCA 108.34 APO 150.04 V2 34.784
 RC 109.246 GL -64.00 GP 84.01 ZAL 101.51 ZAP 95.38 ETS 96.09 ZAE 86.47 ETE 184.09 ZAC 70.31 ETC 225.28 CLP 153.99

PLANETOCENTRIC CONIC

C3 146.922 VHL 12.121 CLA -48.66 RAL 53.02 RAD 6570.6 VEL 16.378 PTH 2.86 VHP 15.798 OPA 59.66 RAP 280.46 ECC 3.4180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.61 7 22 39 2105.89 9.95 53.49 314.13 137.89 7 57 44 1505.9 15.83 48.34
 131.39 15 35 4 612.61 9.96 296.30 314.15 137.89 15 45 17 12.6 15.84 291.15
 48.61 7 22 39 2105.89 9.95 53.49 314.13 137.89 7 57 44 1505.9 15.83 48.34
 131.39 15 35 4 612.61 9.96 296.30 314.15 137.89 15 45 17 12.6 15.84 291.15
 48.61 7 22 39 2105.89 9.95 53.49 314.13 137.89 7 57 44 1505.9 15.83 48.34
 131.39 15 35 4 612.61 9.96 296.30 314.15 137.89 15 45 17 12.6 15.84 291.15

DIFFERENTIAL CORRECTIONS

TDE-5.3846 TRA 2.5456 TC3 -.1350 BAU .2678
 RDE-3.1169 RRA .5986 RC3 -.0188 FAU .00411
 FDE-1.5539 FRA .7612 FC3 -.0242 BSP 11034
 BDE 6.2217 BRA 2.6150 BC3 .1363 FSP -253

MID-COURSE EXECUTION ACCURACY

SGT 3147.1 SGR 1535.0 SG3 79.2
 RRT .9409 RRF .9372 RTF .9991
 SGB 3501.5 R23 -.0720 R13 .9965
 SG1 3469.6 SG2 471.6 THA 25.15

ORBIT DETERMINATION ACCURACY

ST 2603.3 SR 1478.9 SS 1027.1
 CRT .9923 CRS -.9913 CST-1.0000
 LSA 3161.1 MSA 164.1 SSA 1.5
 EL1 2989.8 EL2 159.9 ALF 29.50

LAUNCH DATE FEB 11 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 377.667

RL 147.66 LAL .00 LOL 142.09 VL 27.727 GAL -4.09 AZL 129.49 HCA 175.28 SMA 129.00 ECC .16095 INC39.4863 V1 30.173
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.519 GAP 2.41 AZP 50.61 TAL 202.24 TAP 17.52 RCA 108.24 APO 149.77 V2 34.785
 RC 111.645 GL -62.59 GP 74.79 ZAL 96.66 ZAP 93.61 ETS 153.53 ZAE 74.27 ETE 239.53 ZAC 61.89 ETC 282.39 CLP 103.90

PLANETOCENTRIC CONIC

C3 392.491 VHL 19.811 CLA -44.66 RAL 59.10 RAD 6572.1 VEL 22.667 PTH 3.26 VHP 25.476 OPA 52.13 RAP 263.84 ECC 7.4594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.90 8 5 49 2194.74 2.80 54.40 326.24 134.59 8 42 24 1594.7 8.40 49.07
 126.10 15 40 23 797.20 2.82 306.31 326.26 134.59 15 53 40 197.2 8.41 300.98
 53.90 8 5 49 2194.74 2.80 54.40 326.24 134.59 8 42 24 1594.7 8.40 49.07
 126.10 15 40 23 797.20 2.82 306.31 326.26 134.59 15 53 40 197.2 8.41 300.98
 53.90 8 5 49 2194.74 2.80 54.40 326.24 134.59 8 42 24 1594.7 8.40 49.07
 126.10 15 40 23 797.20 2.82 306.31 326.26 134.59 15 53 40 197.2 8.41 300.98

DIFFERENTIAL CORRECTIONS

TDE .7829 TRA 1.7839 TC3 -.0138 BAU .7260
 RDE-9.2665 RRA 5.0039 RC3 .1377 FAU-.01261
 FDE-1.7887 FRA 1.1458 FC3 .0278 BSP 10749
 BDE 9.2995 BRA 5.3124 BC3 .1384 FSP -191

MID-COURSE EXECUTION ACCURACY

SGT 761.8 SGR 3408.7 SG3 60.9
 RRT .3232 RRF .9966 RTF .4000
 SGB 3492.8 R23 -.0665 R13 .9978
 SG1 3418.0 SG2 719.0 THA 85.68

ORBIT DETERMINATION ACCURACY

ST 314.0 SR 2748.6 SS 1179.5
 CRT -.5492 CRS -.9992 CST .5154
 LSA 2995.6 MSA 266.6 SSA .6
 EL1 2754.1 EL2 261.9 ALF 93.62

LAUNCH DATE FEB 11 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.699 GAL -3.61 AZL 171.15 HCA 176.88 SMA 128.80 ECC .15908 INCH1.1447 V1 30.173
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.500 GAP 2.25 AZP 8.87 TAL 199.69 TAP 16.57 RCA 108.31 APO 149.29 V2 34.787
 RC 114.042 GL -46.41 GP 51.11 ZAL 93.13 ZAP 91.82 ETS 172.59 ZAE 50.14 ETE 255.79 ZAC 44.46 ETC 310.04 CLP 92.91

DISTANCE 382.113
 MID-COURSE EXECUTION ACCURACY
 SGT 1016.1 SGR 2807.6 SG3 53.1
 RRT -.8036 RRF .9997 RTF -.7889
 SGB 2985.9 R23 -.0843 R13 .9964
 SGI 2929.0 SGI 579.7 THA 106.90

PLANETOCENTRIC CONIC
 C31421.973 VHL 37.709 CLA -27.53 RAL 58.35 RAD 6573.2 VEL 39.284 PTH 3.55 VHP 47.736 DPA 31.18 RAP 248.12 ECC24.4021
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 51 25 1765.76 -6.76 14.78 326.34 117.56 11 20 51 1165.8 -3.01 8.10
 90.00 12 48 46 1383.51 5.50 353.38 332.76 117.82 13 11 49 783.5 9.18 346.64
 100.00 11 31 53 1635.02 -11.38 2.73 323.89 117.83 11 59 8 1035.0 -7.57 356.02
 100.00 14 50 59 989.48 10.11 326.86 335.24 118.28 15 7 29 389.5 13.81 320.03
 110.00 11 40 35 1607.66 -19.29 356.25 319.48 118.79 12 7 23 1007.7 -15.30 349.41
 110.00 16 58 46 5877.64 17.97 278.88 339.71 119.58 18 36 44 5277.6 21.77 271.81

DIFFERENTIAL CORRECTIONS
 TOE 5.3980 TRA -.2201 TC3 -.0794 BAU 4.0636
 RD-10.6822 RRA10.1224 RC3 .1985 FAU-.06972
 FDE-2.2954 FRA 2.2850 FC3 .0424 BSP 8897
 BOE11.9686 BRA10.1248 BC3 .2138 FSP -166

ORBIT DETERMINATION ACCURACY
 ST 820.5 SR 1705.0 SS 1518.4
 CRT -.9564 CRS -.9999 CST .9520
 LSA 2414.9 MSA 231.9 SSA .6
 EL1 1879.6 EL2 217.4 ALF 115.07

LAUNCH DATE FEB 11 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.668 GAL -4.31 AZL 40.35 HCA 184.14 SMA 128.59 ECC .16589 INC49.6455 V1 30.173
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.480 GAP 3.73 AZP 139.57 TAL 202.65 TAP 26.80 RCA 107.26 APO 149.93 V2 34.790
 RC 116.435 GL 59.19 GP -69.89 ZAL 95.63 ZAP 94.81 ETS 183.77 ZAE 72.48 ETE 100.76 ZAC 84.90 ETC 64.47 CLP 104.10

DISTANCE 392.543
 MID-COURSE EXECUTION ACCURACY
 SGT 1059.0 SGR 3476.7 SG3 59.2
 RRT .7529 RRF -.9995 RTF -.7412
 SGB 3634.4 R23 -.0624 R13 -.9977
 SGI 3570.5 SGI 678.7 THA 76.59

PLANETOCENTRIC CONIC
 C3 599.270 VHL 24.480 CLA 67.19 RAL 355.11 RAD 6572.5 VEL 26.843 PTH 3.39 VHP 29.748 DPA -78.53 RAP 153.26 ECC10.8625
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.12 14 29 10 5042.59 -1.46 244.68 264.51 22.81 15 53 12 4442.6 -8.83 241.97
 153.88 0 46 32 3308.54 -1.45 98.12 264.49 22.81 1 41 41 2708.5 -8.82 95.40
 26.12 14 29 10 5042.59 -1.46 244.68 264.51 22.81 15 53 12 4442.6 -8.83 241.97
 153.88 0 46 32 3308.54 -1.45 98.12 264.49 22.81 1 41 41 2708.5 -8.82 95.40
 26.12 14 29 10 5042.59 -1.46 244.68 264.51 22.81 15 53 12 4442.6 -8.83 241.97
 153.88 0 46 32 3308.54 -1.45 98.12 264.49 22.81 1 41 41 2708.5 -8.82 95.40

DIFFERENTIAL CORRECTIONS
 TOE-1.0262 TRA 1.6039 TC3 -.0724 BAU 1.6337
 RD-12.0022 RRA 3.0201 RC3 -.1906 FAU-.02340
 FDE 2.4016 FRA -.5886 FC3 .0338 BSP 10988
 BOE12.0460 BRA 3.4196 BC3 .2039 FSP -188

ORBIT DETERMINATION ACCURACY
 ST 377.1 SR 2862.0 SS 1470.5
 CRT .7727 CRS 1.0000 CST .7695
 LSA 3230.9 MSA 238.8 SSA 1.3
 EL1 2876.9 EL2 238.2 ALF 84.15

LAUNCH DATE FEB 11 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.636 GAL -4.01 AZL 61.11 HCA 186.68 SMA 128.37 ECC .16536 INC28.8886 V1 30.173
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.460 GAP 3.83 AZP 118.72 TAL 201.00 TAP 27.67 RCA 107.15 APO 149.60 V2 34.794
 RC 118.823 GL 64.20 GP -79.95 ZAL 98.75 ZAP 98.40 ETS 217.77 ZAE 86.98 ETE 134.62 ZAC 95.42 ETC 99.91 CLP 146.77

DISTANCE 397.952
 MID-COURSE EXECUTION ACCURACY
 SGT 1457.1 SGR 3629.3 SG3 76.8
 RRT -.8272 RRF -.9851 RTF .9083
 SGB 3910.9 R23 -.0966 R13 -.9944
 SGI 3833.3 SGI 775.1 THA 109.19

PLANETOCENTRIC CONIC
 C3 218.856 VHL 14.794 CLA 66.47 RAL 338.14 RAD 6571.3 VEL 18.444 PTH 3.04 VHP 17.615 DPA -74.86 RAP 86.44 ECC 4.6018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.97 13 23 21 4933.08 -8.11 241.72 244.59 23.78 14 45 34 4333.1 -15.42 238.80
 153.03 23 33 1 3204.51 -8.11 96.08 244.58 23.78 24 26 26 2604.5 -15.41 93.16
 26.97 13 23 21 4933.08 -8.11 241.72 244.59 23.78 14 45 34 4333.1 -15.42 238.80
 153.03 23 33 1 3204.51 -8.11 96.08 244.58 23.78 24 26 26 2604.5 -15.41 93.16
 26.97 13 23 21 4933.08 -8.11 241.72 244.59 23.78 14 45 34 4333.1 -15.42 238.80
 153.03 23 33 1 3204.51 -8.11 96.08 244.58 23.78 24 26 26 2604.5 -15.41 93.16

DIFFERENTIAL CORRECTIONS
 TOE 3.3998 TRA -.6414 TC3 -.0165 BAU .1193
 RDE-4.7842 RRA 3.2150 RC3 -.0373 FAU .00231
 FDE 1.4739 FRA -.7020 FC3 -.0091 BSP 12216
 BOE 5.8692 BRA 3.2783 BC3 .0408 FSP -248

ORBIT DETERMINATION ACCURACY
 ST 1329.9 SR 2075.7 SS 922.8
 CRT -.9471 CRS .9923 CST -.9795
 LSA 2606.9 MSA 364.4 SSA 1.7
 EL1 2438.3 EL2 363.4 ALF 122.05

LAUNCH DATE FEB 11 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.603 GAL -3.77 AZL 69.95 HCA 189.59 SMA 128.15 ECC .16557 INC20.0475 V1 30.173
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.439 GAP 4.04 AZP 109.79 TAL 199.64 TAP 29.23 RCA 106.93 APO 149.36 V2 34.798
 RC 121.206 GL 63.06 GP -77.09 ZAL 101.63 ZAP 102.66 ETS 279.97 ZAE 95.68 ETE 196.34 ZAC 100.98 ETC 162.62 CLP-168.84

DISTANCE 403.745
 MID-COURSE EXECUTION ACCURACY
 SGT 3989.8 SGR 657.8 SG3 102.7
 RRT -.7733 RRF -.7002 RTF .9927
 SGB 4043.7 R23 -.1195 R13 -.9912
 SGI 4022.5 SGI 413.7 THA 172.66

PLANETOCENTRIC CONIC
 C3 112.171 VHL 10.591 CLA 63.64 RAL 336.85 RAD 6570.1 VEL 15.281 PTH 2.74 VHP 12.407 DPA -67.88 RAP 65.46 ECC 2.8461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.29 13 25 51 4803.39 -15.08 236.23 239.19 27.38 14 45 54 4203.4 -22.14 232.69
 149.71 23 20 14 3098.59 -15.07 94.33 239.17 27.38 24 11 52 2498.6 -22.13 90.79
 30.29 13 25 51 4803.39 -15.08 236.23 239.19 27.38 14 45 54 4203.4 -22.14 232.69
 149.71 23 20 14 3098.59 -15.07 94.33 239.17 27.38 24 11 52 2498.6 -22.13 90.79
 30.29 13 25 51 4803.39 -15.08 236.23 239.19 27.38 14 45 54 4203.4 -22.14 232.69
 149.71 23 20 14 3098.59 -15.07 94.33 239.17 27.38 24 11 52 2498.6 -22.13 90.79

DIFFERENTIAL CORRECTIONS
 TOE 3.9592 TRA-2.7256 TC3 -.2599 BAU .3899
 RDE .1294 RRA .5367 RC3 .0067 FAU .01502
 FDE 1.3404 FRA -.7468 FC3 -.1159 BSP 12726
 BOE 3.9614 BRA 2.7780 BC3 .2600 FSP -336

ORBIT DETERMINATION ACCURACY
 ST 2362.3 SR 208.3 SS 830.6
 CRT -.0926 CRS .0174 CST -.9972
 LSA 2503.4 MSA 215.8 SSA 2.0
 EL1 2362.4 EL2 207.4 ALF 179.53

LAUNCH DATE FEB 11 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 409.649

RL 147.66 LAL .00 LOL 142.09 VL 27.569 GAL -3.55 AZL 74.64 HCA 192.63 SMA 127.91 ECC .16606 INC15.3572 V1 30.173
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.419 GAP 4.28 AZP 105.00 TAL 198.36 TAP 30.99 RCA 106.67 APO 149.16 V2 34.803
 RC 123.581 GL 60.25 GP -70.90 ZAL 103.97 ZAP 107.22 ETS 299.28 ZAE 102.13 ETE 214.58 ZAC 104.76 ETC 181.93 CLP-154.81

PLANETOCENTRIC CONIC

C3 70.448 VHL 8.393 DLA 60.88 RAL 339.84 RAD 6569.4 VEL 13.849 PTH 2.53 VHP 9.747 DPA -61.48 RAP 55.24 ECC 2.1594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.56 13 45 39 4686.79 -20.72 230.24 237.68 31.35 15 3 46 4086.8 -27.49 225.98
 146.44 23 24 15 3009.07 -20.71 92.19 237.67 31.35 24 14 24 2409.1 -27.48 87.93
 33.56 13 45 39 4686.79 -20.72 230.24 237.68 31.35 15 3 46 4086.8 -27.49 225.98
 146.44 23 24 15 3009.07 -20.71 92.19 237.67 31.35 24 14 24 2409.1 -27.48 87.93
 33.56 13 45 39 4686.79 -20.72 230.24 237.68 31.35 15 3 46 4086.8 -27.49 225.98
 146.44 23 24 15 3009.07 -20.71 92.19 237.67 31.35 24 14 24 2409.1 -27.48 87.93

DIFFERENTIAL CORRECTIONS

TDE 3.0371 TRA-2.3771 TC3 -.6056 BAU .5864
 RDE 1.0345 RRA -.2919 RC3 -.1446 FAU .02537
 FDE 1.4072 FRA -.7832 FC3 -.3118 BSP 13168
 BDE 3.2085 BRA 2.3950 BC3 .6226 FSP -446

MID-COURSE EXECUTION ACCURACY

SGT 4056.0 SGR 851.6 SG3 134.0
 RRT .8906 RRF .9507 RTF .9839
 SGB 4144.4 R23 .1466 R13 .9866
 SG1 4126.9 SG2 380.7 THA 10.68

ORBIT DETERMINATION ACCURACY

ST 2302.2 SR 716.8 SS 855.3
 CRT .9618 CRS -.9875 CST -.9929
 LSA 2550.3 MSA 203.0 SSA 2.6
 EL1 2403.8 EL2 188.0 ALF 16.78

LAUNCH DATE FEB 11 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 415.554

RL 147.66 LAL .00 LOL 142.09 VL 27.534 GAL -3.34 AZL 77.53 HCA 195.71 SMA 127.68 ECC .16679 INC12.4724 V1 30.173
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.398 GAP 4.54 AZP 102.02 TAL 197.13 TAP 32.84 RCA 106.38 APO 148.97 V2 34.808
 RC 125.948 GL 57.04 GP -64.67 ZAL 105.78 ZAP 111.88 ETS 305.08 ZAE 107.33 ETE 218.70 ZAC 107.73 ETC 187.30 CLP-150.61

PLANETOCENTRIC CONIC

C3 50.055 VHL 7.075 DLA 58.35 RAL 343.84 RAD 6568.8 VEL 13.093 PTH 2.39 VHP 8.217 DPA -55.50 RAP 48.94 ECC 1.8238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.59 14 9 21 4589.18 -24.83 224.31 237.28 35.33 15 25 50 3989.2 -31.26 219.32
 143.41 23 32 30 2940.28 -24.82 90.01 237.27 35.32 24 21 30 2340.3 -31.25 85.03
 36.59 14 9 21 4589.18 -24.83 224.31 237.28 35.33 15 25 50 3989.2 -31.26 219.32
 143.41 23 32 30 2940.28 -24.82 90.01 237.27 35.32 24 21 30 2340.3 -31.25 85.03
 36.59 14 9 21 4589.18 -24.83 224.31 237.28 35.33 15 25 50 3989.2 -31.26 219.32
 143.41 23 32 30 2940.28 -24.82 90.01 237.27 35.32 24 21 30 2340.3 -31.25 85.03

DIFFERENTIAL CORRECTIONS

TDE 2.2712 TRA-2.3792 TC3 -1.2358 BAU .8795
 RDE .9040 RRA -.5908 RC3 -.4474 FAU .04568
 FDE 1.2781 FRA -1.0370 FC3 -.7901 BSP 22071
 BDE 2.4445 BRA 2.4314 BC3 1.3143 FSP -1050

MID-COURSE EXECUTION ACCURACY

SGT 4463.3 SGR 1329.6 SG3 190.9
 RRT .9775 RRF .9954 RTF .9871
 SGB 4657.1 R23 .1283 R13 .9894
 SG1 4649.3 SG2 269.3 THA 16.29

ORBIT DETERMINATION ACCURACY

ST 2144.6 SR 781.8 SS 810.4
 CRT .9835 CRS -.9970 CST -.9945
 LSA 2417.7 MSA 147.8 SSA 3.4
 EL1 2278.7 EL2 133.1 ALF 19.79

LAUNCH DATE FEB 11 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 421.547

RL 147.66 LAL .00 LOL 142.09 VL 27.498 GAL -3.11 AZL 79.48 HCA 198.82 SMA 127.43 ECC .16753 INC10.5181 V1 30.173
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.377 GAP 4.78 AZP 99.97 TAL 195.80 TAP 34.62 RCA 106.08 APO 148.78 V2 34.815
 RC 128.306 GL 53.89 GP -58.92 ZAL 106.97 ZAP 116.40 ETS 307.61 ZAE 111.63 ETE 219.08 ZAC 110.28 ETC 189.09 CLP-149.44

PLANETOCENTRIC CONIC

C3 38.488 VHL 6.204 DLA 56.16 RAL 348.04 RAD 6568.5 VEL 12.643 PTH 2.30 VHP 7.272 DPA -49.92 RAP 44.87 ECC 1.6334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.24 14 33 12 4508.96 -27.72 218.81 237.43 38.98 15 48 21 3909.0 -33.81 213.18
 140.76 23 42 9 2888.34 -27.71 87.95 237.41 38.98 24 30 18 2288.3 -33.79 82.32
 39.24 14 33 12 4508.96 -27.72 218.81 237.43 38.98 15 48 21 3909.0 -33.81 213.18
 140.76 23 42 9 2888.34 -27.71 87.95 237.41 38.98 24 30 18 2288.3 -33.79 82.32
 39.24 14 33 12 4508.96 -27.72 218.81 237.43 38.98 15 48 21 3909.0 -33.81 213.18
 140.76 23 42 9 2888.34 -27.71 87.95 237.41 38.98 24 30 18 2288.3 -33.79 82.32

DIFFERENTIAL CORRECTIONS

TDE 2.3831 TRA-1.8308 TC3 -1.3876 BAU .7430
 RDE .9807 RRA -.3398 RC3 -.3993 FAU .04219
 FDE 1.6038 FRA -.7575 FC3 -.9489 BSP 13278
 BDE 2.5770 BRA 1.8621 BC3 1.4439 FSP -638

MID-COURSE EXECUTION ACCURACY

SGT 4126.3 SGR 1176.1 SG3 196.2
 RRT .9390 RRF .9856 RTF .9711
 SGB 4290.7 R23 .1902 R13 .9761
 SG1 4272.9 SG2 390.5 THA 15.11

ORBIT DETERMINATION ACCURACY

ST 2382.5 SR 921.4 SS 960.5
 CRT .9785 CRS -.9979 CST -.9898
 LSA 2721.2 MSA 206.3 SSA 4.0
 EL1 2548.3 EL2 177.8 ALF 20.83

LAUNCH DATE FEB 11 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 427.502

RL 147.66 LAL .00 LOL 142.09 VL 27.461 GAL -2.88 AZL 80.90 HCA 201.95 SMA 127.19 ECC .16846 INC 9.1021 V1 30.173
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.357 GAP 5.04 AZP 98.45 TAL 194.49 TAP 36.44 RCA 105.76 APO 148.61 V2 34.821
 RC 130.653 GL 50.89 GP -53.65 ZAL 107.69 ZAP 120.74 ETS 308.98 ZAE 115.19 ETE 217.94 ZAC 112.55 ETC 189.50 CLP-149.57

PLANETOCENTRIC CONIC

C3 31.266 VHL 5.592 DLA 54.21 RAL 352.16 RAD 6568.2 VEL 12.355 PTH 2.23 VHP 6.667 DPA -44.71 RAP 42.10 ECC 1.5146
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.63 14 56 20 4442.39 -29.68 213.76 237.90 42.32 16 10 22 3842.4 -35.44 207.58
 138.37 23 51 50 2850.03 -29.67 86.16 237.89 42.31 24 39 20 2250.0 -35.42 79.97
 41.63 14 56 20 4442.39 -29.68 213.76 237.90 42.32 16 10 22 3842.4 -35.44 207.58
 138.37 23 51 50 2850.03 -29.67 86.16 237.89 42.31 24 39 20 2250.0 -35.42 79.97
 41.63 14 56 20 4442.39 -29.68 213.76 237.90 42.32 16 10 22 3842.4 -35.44 207.58
 138.37 23 51 50 2850.03 -29.67 86.16 237.89 42.31 24 39 20 2250.0 -35.42 79.97

DIFFERENTIAL CORRECTIONS

TDE 2.2310 TRA-1.6578 TC3 -1.8326 BAU .7927
 RDE .8650 RRA -.2814 RC3 -.4879 FAU .04919
 FDE 1.6454 FRA -.7081 FC3 -1.3620 BSP 13722
 BDE 2.3928 BRA 1.6816 BC3 1.8965 FSP -744

MID-COURSE EXECUTION ACCURACY

SGT 4226.4 SGR 1151.6 SG3 223.7
 RRT .9402 RRF .9851 RTF .9669
 SGB 4380.5 R23 .2014 R13 .9717
 SG1 4364.0 SG2 379.9 THA 14.48

ORBIT DETERMINATION ACCURACY

ST 2447.2 SR 898.7 SS 995.0
 CRT .9803 CRS -.9986 CST -.9892
 LSA 2783.1 MSA 202.6 SSA 4.9
 EL1 2601.7 EL2 167.0 ALF 19.88

LAUNCH DATE FEB 11 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.423 GAL -2.65 AZL 81.98 HCA 205.09 SMA 126.94 ECC .16950 INC 8.0243 V1 30.173
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.336 GAP 5.29 AZP 97.28 TAL 193.16 TAP 38.25 RCA 105.42 APO 148.45 V2 34.829
 RC 132.989 GL 48.08 GP -48.90 ZAL 107.95 ZAP 124.81 ETS 309.93 ZAE 118.10 ETE 216.14 ZAC 114.63 ETC 189.34 CLP-150.26

PLANETOCENTRIC CONIC
 C3 26.410 VHL 5.139 DLA 52.50 RAL 356.16 RAD 6568.1 VEL 12.157 PTH 2.18 VHP 6.276 DPA -39.91 RAP 40.27 ECC 1.4346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.74 15 18 31 4386.59 -31.02 209.24 238.71 45.25 16 31 37 3786.6 -36.46 202.60
 136.26 0 5 33 2821.50 -31.00 84.63 238.70 45.25 0 52 35 2221.5 -36.45 77.99
 43.74 15 18 31 4386.59 -31.02 209.24 238.71 45.25 16 31 37 3786.6 -36.46 202.60
 136.26 0 5 33 2821.50 -31.00 84.63 238.70 45.25 0 52 35 2221.5 -36.45 77.99
 43.74 15 18 31 4386.59 -31.02 209.24 238.71 45.25 16 31 37 3786.6 -36.46 202.60
 136.26 0 5 33 2821.50 -31.00 84.63 238.70 45.25 0 52 35 2221.5 -36.45 77.99

DIFFERENTIAL CORRECTIONS
 TDE 2.1320 TRA-1.5013 TC3-2.2853 BAU .8292
 RDE .7630 RRA -.2198 RC3 -.5417 FAU .05434
 FDE 1.6573 FRA -.6253 FC3-1.7813 BSP 13993
 BOE 2.2644 BRA 1.5173 BC3 2.3486 FSP -820

MID-COURSE EXECUTION ACCURACY
 SGT 4327.6 SGR 1093.6 SG3 245.6
 RRT .9376 RRF .9821 RTF .9628
 SGB 4463.7 R23 .2093 R13 .9671
 SG1 4448.3 SG2 370.0 THA 13.42

ORBIT DETERMINATION ACCURACY
 ST 2517.0 SR 859.4 SS 1019.5
 CRT .9814 CRS -.9990 CST -.9888
 LSA 2841.4 MSA 199.4 SSA 5.8
 EL1 2655.1 EL2 156.4 ALF 18.59

LAUNCH DATE FEB 11 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.385 GAL -2.40 AZL 82.83 HCA 208.24 SMA 126.68 ECC .17067 INC 7.1723 V1 30.173
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.316 GAP 5.55 AZP 96.33 TAL 191.80 TAP 40.04 RCA 105.06 APO 148.30 V2 34.837
 RC 135.313 GL 45.47 GP -44.66 ZAL 107.80 ZAP 128.57 ETS 310.69 ZAE 120.46 ETE 214.06 ZAC 116.60 ETC 188.93 CLP-151.24

PLANETOCENTRIC CONIC
 C3 22.964 VHL 4.792 DLA 51.03 RAL .09 RAD 6567.9 VEL 12.014 PTH 2.14 VHP 6.024 DPA -35.50 RAP 39.14 ECC 1.3779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.60 15 39 53 4339.24 -31.91 205.23 239.86 47.81 16 52 12 3739.2 -37.07 198.22
 134.40 0 15 32 2800.13 -31.90 83.37 239.84 47.80 1 2 12 2200.1 -37.06 76.36
 45.60 15 39 53 4339.24 -31.91 205.23 239.86 47.81 16 52 12 3739.2 -37.07 198.22
 134.40 0 15 32 2800.13 -31.90 83.37 239.84 47.80 1 2 12 2200.1 -37.06 76.36
 45.60 15 39 53 4339.24 -31.91 205.23 239.86 47.81 16 52 12 3739.2 -37.07 198.22
 134.40 0 15 32 2800.13 -31.90 83.37 239.84 47.80 1 2 12 2200.1 -37.06 76.36

DIFFERENTIAL CORRECTIONS
 TDE 2.0603 TRA-1.3570 TC3-2.7448 BAU .8606
 RDE .6762 RRA -.1664 RC3 -.5699 FAU .05795
 FDE 1.6382 FRA -.5236 FC3-2.1846 BSP 14278
 BOE 2.1684 BRA 1.3671 BC3 2.8033 FSP -878

MID-COURSE EXECUTION ACCURACY
 SGT 4432.0 SGR 1025.7 SG3 262.2
 RRT .9337 RRF .9772 RTF .9591
 SGB 4549.2 R23 .2118 R13 .9629
 SG1 4535.0 SG2 358.9 THA 12.27

ORBIT DETERMINATION ACCURACY
 ST 2583.3 SR 814.2 SS 1031.8
 CRT .9824 CRS -.9993 CST -.9883
 LSA 2891.8 MSA 195.6 SSA 6.9
 EL1 2704.6 EL2 145.2 ALF 17.26

LAUNCH DATE FEB 11 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.347 GAL -2.14 AZL 83.52 HCA 211.39 SMA 126.43 ECC .17195 INC 6.4784 V1 30.173
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.295 GAP 5.80 AZP 95.54 TAL 190.42 TAP 41.82 RCA 104.69 APO 148.17 V2 34.846
 RC 137.625 GL 43.03 GP -40.89 ZAL 107.27 ZAP 132.03 ETS 311.34 ZAE 122.35 ETE 211.90 ZAC 118.50 ETC 188.42 CLP-152.34

PLANETOCENTRIC CONIC
 C3 20.419 VHL 4.519 DLA 49.75 RAL 3.98 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 5.870 DPA -31.47 RAP 38.54 ECC 1.3360
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.22 16 0 33 4298.75 -32.51 201.69 241.33 50.02 17 12 12 3698.8 -37.42 194.40
 132.78 0 25 52 2783.93 -32.50 82.33 241.32 50.01 1 12 16 2183.9 -37.41 75.03
 47.22 16 0 33 4298.75 -32.51 201.69 241.33 50.02 17 12 12 3698.8 -37.42 194.40
 132.78 0 25 52 2783.93 -32.50 82.33 241.32 50.01 1 12 16 2183.9 -37.41 75.03
 47.22 16 0 33 4298.75 -32.51 201.69 241.33 50.02 17 12 12 3698.8 -37.42 194.40
 132.78 0 25 52 2783.93 -32.50 82.33 241.32 50.01 1 12 16 2183.9 -37.41 75.03

DIFFERENTIAL CORRECTIONS
 TDE 2.0064 TRA-1.2185 TC3-3.2060 BAU .8893
 RDE .6043 RRA -.1217 RC3 -.5782 FAU .06018
 FDE 1.5956 FRA -.4096 FC3-2.5514 BSP 14576
 BOE 2.0954 BRA 1.2245 BC3 3.2578 FSP -919

MID-COURSE EXECUTION ACCURACY
 SGT 4536.9 SGR 957.7 SG3 274.0
 RRT .9285 RRF .9704 RTF .9557
 SGB 4636.9 R23 .2093 R13 .9589
 SG1 4623.8 SG2 349.0 THA 11.15

ORBIT DETERMINATION ACCURACY
 ST 2644.6 SR 769.8 SS 1033.9
 CRT .9835 CRS -.9996 CST -.9878
 LSA 2935.8 MSA 191.6 SSA 8.0
 EL1 2751.1 EL2 133.9 ALF 16.01

LAUNCH DATE FEB 11 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 27.308 GAL -1.88 AZL 84.10 HCA 214.55 SMA 126.17 ECC .17335 INC 5.8991 V1 30.173
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.275 GAP 6.06 AZP 94.86 TAL 189.02 TAP 43.57 RCA 104.30 APO 148.04 V2 34.855
 RC 139.923 GL 40.73 GP -37.56 ZAL 106.39 ZAP 135.20 ETS 311.91 ZAE 123.85 ETE 209.77 ZAC 120.36 ETC 187.88 CLP-153.52

PLANETOCENTRIC CONIC
 C3 18.484 VHL 4.299 DLA 48.63 RAL 7.86 RAD 6567.7 VEL 11.826 PTH 2.09 VHP 5.784 DPA -27.80 RAP 38.35 ECC 1.3042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.66 16 20 48 4263.72 -32.90 198.57 243.14 51.93 17 31 51 3663.7 -37.59 191.04
 131.34 0 36 36 2771.76 -32.89 81.49 243.13 51.92 1 22 48 2171.8 -37.58 73.96
 48.66 16 20 48 4263.72 -32.90 198.57 243.14 51.93 17 31 51 3663.7 -37.59 191.04
 131.34 0 36 36 2771.76 -32.89 81.49 243.13 51.92 1 22 48 2171.8 -37.58 73.96
 48.66 16 20 48 4263.72 -32.90 198.57 243.14 51.93 17 31 51 3663.7 -37.59 191.04
 131.34 0 36 36 2771.76 -32.89 81.49 243.13 51.92 1 22 48 2171.8 -37.58 73.96

DIFFERENTIAL CORRECTIONS
 TDE 1.9675 TRA-1.0789 TC3-3.6569 BAU .9144
 RDE .5464 RRA -.0843 RC3 -.5690 FAU .06105
 FDE 1.5391 FRA -.2870 FC3-2.8598 BSP 14815
 BOE 2.0419 BRA 1.0822 BC3 3.7009 FSP -938

MID-COURSE EXECUTION ACCURACY
 SGT 4636.2 SGR 893.7 SG3 281.1
 RRT .9215 RRF .9612 RTF .9525
 SGB 4721.6 R23 .2028 R13 .9552
 SG1 4709.2 SG2 341.8 THA 10.13

ORBIT DETERMINATION ACCURACY
 ST 2703.8 SR 730.2 SS 1029.4
 CRT .9848 CRS -.9998 CST -.9873
 LSA 2978.0 MSA 187.7 SSA 9.1
 EL1 2798.0 EL2 122.6 ALF 14.92

LAUNCH DATE FEB 11 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 457.172

RL 147.66 LAL .00 LOL 142.09 VL 27.268 GAL -1.60 AZL 84.59 HCA 217.71 SMA 125.91 ECC .17489 INC 5.4056 V1 30.173
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.256 GAP 6.32 AZP 94.28 TAL 187.60 TAP 45.31 RCA 103.89 APO 147.93 V2 34.865
 RC 142.207 GL 38.55 GP -34.62 ZAL 105.21 ZAP 138.08 ETS 312.40 ZAE 125.04 ETE 207.74 ZAC 122.21 ETC 187.36 CLP-154.71

PLANETOCENTRIC CONIC

C3 16.975 VHL 4.120 DLA 47.64 RAL 11.78 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 5.749 DPA -24.45 RAP 38.50 ECC 1.2794
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.94 16 40 46 4233.25 -33.14 195.81 245.25 53.58 17 51 19 3633.2 -37.63 188.10
 130.06 0 47 52 2762.72 -33.13 80.82 245.24 53.57 1 33 55 2162.7 -37.62 73.11
 49.94 16 40 46 4233.25 -33.14 195.81 245.25 53.58 17 51 19 3633.2 -37.63 188.10
 130.06 0 47 52 2762.72 -33.13 80.82 245.24 53.57 1 33 55 2162.7 -37.62 73.11
 49.94 16 40 46 4233.25 -33.14 195.81 245.25 53.58 17 51 19 3633.2 -37.63 188.10
 130.06 0 47 52 2762.72 -33.13 80.82 245.24 53.57 1 33 55 2162.7 -37.62 73.11

DIFFERENTIAL CORRECTIONS

TDE 1.9335 TRA -.9409 TC3-4.1038 BAU .9397
 RDE .4986 RRA -.0547 RC3 -.5517 FAU .06112
 FDE 1.4677 FRA -.1665 FC3-3.1170 BSP 15125
 BDE 1.9968 BRA .9424 BC3 4.1407 FSP -952

MID-COURSE EXECUTION ACCURACY

SGT 4736.7 SGR 836.7 SG3 285.0
 RRT .9136 RRF .9498 RTF .9498
 SGB 4810.0 R23 .1911 R13 .9521
 SG1 4798.3 SG2 335.9 THA 9.21

ORBIT DETERMINATION ACCURACY

ST 2753.1 SR 694.3 SS 1015.8
 CRT .9863 CRS -.9998 CST -.9868
 LSA 3010.0 MSA 183.1 SSA 10.3
 EL1 2837.2 EL2 110.9 ALF 13.99

LAUNCH DATE FEB 11 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 463.074

RL 147.66 LAL .00 LOL 142.09 VL 27.229 GAL -1.32 AZL 85.02 HCA 220.88 SMA 125.66 ECC .17656 INC 4.9776 V1 30.173
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.236 GAP 6.58 AZP 93.77 TAL 186.16 TAP 47.03 RCA 103.47 APO 147.84 V2 34.875
 RC 144.478 GL 36.47 GP -32.01 ZAL 103.73 ZAP 140.72 ETS 312.83 ZAE 125.97 ETE 205.84 ZAC 124.06 ETC 186.86 CLP-155.91

PLANETOCENTRIC CONIC

C3 15.789 VHL 3.974 DLA 46.76 RAL 15.75 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 5.752 DPA -21.39 RAP 38.93 ECC 1.2598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.09 17 0 40 4206.52 -33.27 193.35 247.67 55.01 18 10 47 3606.5 -37.58 185.49
 128.91 0 59 38 2756.35 -33.25 80.31 247.66 55.00 1 45 34 2156.4 -37.57 72.46
 51.09 17 0 40 4206.52 -33.27 193.35 247.67 55.01 18 10 47 3606.5 -37.58 185.49
 128.91 0 59 38 2756.35 -33.25 80.31 247.66 55.00 1 45 34 2156.4 -37.57 72.46
 51.09 17 0 40 4206.52 -33.27 193.35 247.67 55.01 18 10 47 3606.5 -37.58 185.49
 128.91 0 59 38 2756.35 -33.25 80.31 247.66 55.00 1 45 34 2156.4 -37.57 72.46

DIFFERENTIAL CORRECTIONS

TDE 1.9057 TRA -.8002 TC3-4.5357 BAU .9639
 RDE .4601 RRA -.0307 RC3 -.5281 FAU .06046
 FDE 1.3901 FRA -.0493 FC3-3.3153 BSP 15429
 BDE 1.9605 BRA .8008 BC3 4.5664 FSP -955

MID-COURSE EXECUTION ACCURACY

SGT 4835.4 SGR 787.7 SG3 286.2
 RRT .9044 RRF .9361 RTF .9478
 SGB 4899.2 R23 .1754 R13 .9496
 SG1 4887.9 SG2 332.5 THA 8.42

ORBIT DETERMINATION ACCURACY

ST 2796.1 SR 663.9 SS 997.0
 CRT .9882 CRS -.9997 CST -.9862
 LSA 3036.7 MSA 178.1 SSA 11.6
 EL1 2872.2 EL2 99.1 ALF 13.22

LAUNCH DATE FEB 11 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 468.963

RL 147.66 LAL .00 LOL 142.09 VL 27.189 GAL -1.02 AZL 85.40 HCA 224.05 SMA 125.40 ECC .17838 INC 4.6009 V1 30.173
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.217 GAP 6.84 AZP 93.31 TAL 184.69 TAP 48.74 RCA 103.03 APO 147.77 V2 34.885
 RC 146.734 GL 34.46 GP -29.71 ZAL 101.99 ZAP 143.13 ETS 313.16 ZAE 126.70 ETE 204.10 ZAC 125.93 ETC 186.39 CLP-157.09

PLANETOCENTRIC CONIC

C3 14.851 VHL 3.854 DLA 45.96 RAL 19.79 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 5.785 DPA -18.59 RAP 39.58 ECC 1.2444
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.16 17 20 38 4183.00 -33.29 191.15 250.38 56.27 18 30 21 3583.0 -37.46 183.18
 127.84 1 11 56 2752.33 -33.28 79.96 250.37 56.26 1 57 48 2152.3 -37.45 71.99
 52.16 17 20 38 4183.00 -33.29 191.15 250.38 56.27 18 30 21 3583.0 -37.46 183.18
 127.84 1 11 56 2752.33 -33.28 79.96 250.37 56.26 1 57 48 2152.3 -37.45 71.99
 52.16 17 20 38 4183.00 -33.29 191.15 250.38 56.27 18 30 21 3583.0 -37.46 183.18
 127.84 1 11 56 2752.33 -33.28 79.96 250.37 56.26 1 57 48 2152.3 -37.45 71.99

DIFFERENTIAL CORRECTIONS

TDE 1.8787 TRA -.6546 TC3-4.9472 BAU .9872
 RDE .4287 RRA -.0105 RC3 -.5003 FAU .05924
 FDE 1.3059 FRA .0649 FC3-3.4537 BSP 15739
 BDE 1.9270 BRA .6547 BC3 4.9724 FSP -951

MID-COURSE EXECUTION ACCURACY

SGT 4929.5 SGR 745.3 SG3 284.9
 RRT .8933 RRF .9199 RTF .9460
 SGB 4985.5 R23 .1578 R13 .9475
 SG1 4974.5 SG2 331.9 THA 7.73

ORBIT DETERMINATION ACCURACY

ST 2826.9 SR 637.5 SS 971.4
 CRT .9902 CRS -.9992 CST -.9855
 LSA 3051.4 MSA 173.4 SSA 12.9
 EL1 2896.6 EL2 87.1 ALF 12.60

LAUNCH DATE FEB 11 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 474.839

RL 147.66 LAL .00 LOL 142.09 VL 27.149 GAL -.71 AZL 85.74 HCA 227.22 SMA 125.14 ECC .18035 INC 4.2647 V1 30.173
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.198 GAP 7.11 AZP 92.90 TAL 183.21 TAP 50.43 RCA 102.57 APO 147.71 V2 34.897
 RC 148.977 GL 32.51 GP -27.68 ZAL 100.01 ZAP 145.34 ETS 313.41 ZAE 127.28 ETE 202.52 ZAC 127.82 ETC 185.96 CLP-158.25

PLANETOCENTRIC CONIC

C3 14.113 VHL 3.757 DLA 45.20 RAL 23.92 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 5.841 DPA -16.01 RAP 40.42 ECC 1.2323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.17 17 40 51 4162.03 -33.23 189.14 253.35 57.39 18 50 13 3562.0 -37.26 181.09
 126.83 1 24 38 2750.70 -33.22 79.75 253.35 57.38 2 10 29 2150.7 -37.25 71.70
 53.17 17 40 51 4162.03 -33.23 189.14 253.35 57.39 18 50 13 3562.0 -37.26 181.09
 126.83 1 24 38 2750.70 -33.22 79.75 253.35 57.38 2 10 29 2150.7 -37.25 71.70
 53.17 17 40 51 4162.03 -33.23 189.14 253.35 57.39 18 50 13 3562.0 -37.26 181.09
 126.83 1 24 38 2750.70 -33.22 79.75 253.35 57.38 2 10 29 2150.7 -37.25 71.70

DIFFERENTIAL CORRECTIONS

TDE 1.8522 TRA -.5029 TC3-5.3301 BAU 1.0096
 RDE .4036 RRA .0067 RC3 -.4703 FAU .05760
 FDE 1.2199 FRA .1741 FC3-3.5336 BSP 16074
 BDE 1.8957 BRA .5029 BC3 5.3508 FSP -945

MID-COURSE EXECUTION ACCURACY

SGT 5020.3 SGR 710.0 SG3 282.0
 RRT .8806 RRF .9015 RTF .9446
 SGB 5070.2 R23 .1393 R13 .9459
 SG1 5059.2 SG2 333.9 THA 7.13

ORBIT DETERMINATION ACCURACY

ST 2846.3 SR 615.7 SS 941.5
 CRT .9922 CRS -.9982 CST -.9846
 LSA 3055.8 MSA 168.8 SSA 14.2
 EL1 2911.1 EL2 74.8 ALF 12.12

LAUNCH DATE FEB 11 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.109 GAL -3.38 AZL 86.04 HCA 230.39 SMA 124.88 ECC .18249 INC 3.9612 VI 30.173
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.180 GAP 7.38 AZP 92.53 TAL 181.72 TAP 52.11 RCA 102.10 APO 147.67 V2 34.908
 RC 151.204 GL 30.59 GP -25.87 ZAL 97.80 ZAP 147.37 ETS 313.55 ZAE 127.73 ETE 201.08 ZAC 129.74 ETC 185.55 CLP-159.39

PLANETOCENTRIC CONIC

C3 13.544 VHL 3.680 DLA 44.47 RAL 28.13 RAD 6567.5 VEL 11.616 PTH 2.04 VHP 5.917 DPA -13.64 RAP 41.44 ECC 1.2229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.16 18 1 25 4143.16 -33.07 187.30 256.58 58.39 19 10 29 3543.2 -36.98 179.18
 125.84 1 37 40 2751.53 -33.06 79.71 256.58 58.38 2 23 32 2151.5 -36.97 71.60
 54.16 18 1 25 4143.16 -33.07 187.30 256.58 58.39 19 10 29 3543.2 -36.98 179.18
 125.84 1 37 40 2751.53 -33.06 79.71 256.58 58.38 2 23 32 2151.5 -36.97 71.60
 54.16 18 1 25 4143.16 -33.07 187.30 256.58 58.39 19 10 29 3543.2 -36.98 179.18
 125.84 1 37 40 2751.53 -33.06 79.71 256.58 58.38 2 23 32 2151.5 -36.97 71.60

DIFFERENTIAL CORRECTIONS

TDE 1.8256 TRA -3.3435 TC3-5.6689 BAU 1.0295
 RDE .3838 RRA .0216 RC3 -.4379 FAU .05553
 FDE 1.1338 FRA .2779 FC3-3.5495 BSP 16340
 BDE 1.8655 BRA .3442 BC3 5.6858 FSP -929

MID-COURSE EXECUTION ACCURACY

SGT 5103.9 SGR 680.6 SG3 277.4
 RRT .8659 RRF .8812 RTF .9436
 SGB 5149.1 R23 .1208 R13 .9446
 SG1 5138.0 SG2 338.1 THA 6.62

ORBIT DETERMINATION ACCURACY

ST 2853.8 SR 597.8 SS 908.0
 CRT .9944 CRS -.9965 CST -.9836
 LSA 3049.3 MSA 164.3 SSA 15.6
 EL1 2915.0 EL2 62.1 ALF 11.77

LAUNCH DATE FEB 11 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.068 GAL -0.05 AZL 86.32 HCA 233.57 SMA 124.63 ECC .18480 INC 3.6841 VI 30.173
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.162 GAP 7.65 AZP 92.19 TAL 180.21 TAP 53.78 RCA 101.60 APO 147.66 V2 34.920
 RC 153.416 GL 28.69 GP -24.26 ZAL 95.39 ZAP 149.25 ETS 313.59 ZAE 128.09 ETE 199.79 ZAC 131.68 ETC 185.17 CLP-160.50

PLANETOCENTRIC CONIC

C3 13.122 VHL 3.622 DLA 43.73 RAL 32.42 RAD 6567.5 VEL 11.598 PTH 2.03 VHP 6.009 DPA -11.44 RAP 42.59 ECC 1.2160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.16 18 22 28 4125.93 -32.82 185.55 260.04 59.30 19 31 14 3525.9 -36.62 177.40
 124.84 1 50 52 2755.04 -32.81 79.85 260.04 59.29 2 36 47 2155.0 -36.61 71.70
 55.16 18 22 28 4125.93 -32.82 185.55 260.04 59.30 19 31 14 3525.9 -36.62 177.40
 124.84 1 50 52 2755.04 -32.81 79.85 260.04 59.29 2 36 47 2155.0 -36.61 71.70
 55.16 18 22 28 4125.93 -32.82 185.55 260.04 59.30 19 31 14 3525.9 -36.62 177.40
 124.84 1 50 52 2755.04 -32.81 79.85 260.04 59.29 2 36 47 2155.0 -36.61 71.70

DIFFERENTIAL CORRECTIONS

TDE 1.7772 TRA -.1878 TC3-5.9743 BAU 1.0505
 RDE .3638 RRA .0323 RC3 -.4081 FAU .05341
 FDE 1.0259 FRA .3621 FC3-3.5238 BSP 16836
 BDE 1.8140 BRA .1905 BC3 5.9882 FSP -944

MID-COURSE EXECUTION ACCURACY

SGT 5177.3 SGR 650.7 SG3 270.2
 RRT .8513 RRF .8572 RTF .9441
 SGB 5218.0 R23 .0954 R13 .9448
 SG1 5207.0 SG2 339.5 THA 6.13

ORBIT DETERMINATION ACCURACY

ST 2816.6 SR 575.8 SS 852.4
 CRT .9963 CRS -.9936 CST -.9822
 LSA 2994.3 MSA 158.0 SSA 17.1
 EL1 2874.4 EL2 48.6 ALF 11.52

LAUNCH DATE FEB 11 1969

FLIGHT TIME 170.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 27.028 GAL .30 AZL 86.57 HCA 236.75 SMA 124.38 ECC .18729 INC 3.4287 VI 30.173
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.144 GAP 7.94 AZP 91.88 TAL 178.68 TAP 55.43 RCA 101.08 APO 147.67 V2 34.932
 RC 155.612 GL 26.82 GP -22.83 ZAL 92.80 ZAP 150.98 ETS 313.52 ZAE 128.38 ETE 198.63 ZAC 133.66 ETC 184.80 CLP-161.59

PLANETOCENTRIC CONIC

C3 12.835 VHL 3.583 DLA 42.98 RAL 36.78 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 6.116 DPA -9.40 RAP 43.87 ECC 1.2112
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.21 18 44 2 4109.91 -32.47 183.88 263.71 60.14 19 52 32 3509.9 -36.17 175.70
 123.79 2 4 3 2761.51 -32.46 80.19 263.70 60.12 2 50 4 2161.5 -36.16 72.01
 56.21 18 44 2 4109.91 -32.47 183.88 263.71 60.14 19 52 32 3509.9 -36.17 175.70
 123.79 2 4 3 2761.51 -32.46 80.19 263.70 60.12 2 50 4 2161.5 -36.16 72.01
 56.21 18 44 2 4109.91 -32.47 183.88 263.71 60.14 19 52 32 3509.9 -36.17 175.70
 123.79 2 4 3 2761.51 -32.46 80.19 263.70 60.12 2 50 4 2161.5 -36.16 72.01

DIFFERENTIAL CORRECTIONS

TDE 1.7581 TRA -.0021 TC3-6.2082 BAU 1.0672
 RDE .3565 RRA .0480 RC3 -.3740 FAU .05077
 FDE .9641 FRA .4706 FC3-3.4248 BSP 16784
 BDE 1.7939 BRA .0481 BC3 6.2195 FSP -875

MID-COURSE EXECUTION ACCURACY

SGT 5262.4 SGR 638.6 SG3 265.7
 RRT .8315 RRF .8374 RTF .9421
 SGB 5301.0 R23 .0909 R13 .9427
 SG1 5289.3 SG2 352.9 THA 5.79

ORBIT DETERMINATION ACCURACY

ST 2814.9 SR 571.0 SS 831.8
 CRT .9979 CRS -.9894 CST -.9805
 LSA 2986.0 MSA 158.6 SSA 18.5
 EL1 2872.0 EL2 36.3 ALF 11.45

LAUNCH DATE FEB 11 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

RL 147.66 LAL .00 LOL 142.09 VL 26.988 GAL .67 AZL 86.81 HCA 239.93 SMA 124.12 ECC .18998 INC 3.1911 VI 30.173
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.126 GAP 8.23 AZP 91.60 TAL 177.15 TAP 57.08 RCA 100.54 APO 147.70 V2 34.945
 RC 157.792 GL 24.96 GP -21.55 ZAL 90.06 ZAP 152.60 ETS 313.33 ZAE 128.61 ETE 197.59 ZAC 135.67 ETC 184.45 CLP-162.65

PLANETOCENTRIC CONIC

C3 12.674 VHL 3.560 DLA 42.18 RAL 41.18 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 6.235 DPA -7.50 RAP 45.27 ECC 1.2086
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.32 19 6 13 4094.64 -32.02 182.23 267.56 60.92 20 14 28 3494.6 -35.62 174.04
 122.68 2 16 58 2771.36 -32.01 80.75 267.55 60.91 3 3 9 2171.4 -35.61 72.57
 57.32 19 6 13 4094.64 -32.02 182.23 267.56 60.92 20 14 28 3494.6 -35.62 174.04
 122.68 2 16 58 2771.36 -32.01 80.75 267.55 60.91 3 3 9 2171.4 -35.61 72.57
 57.32 19 6 13 4094.64 -32.02 182.23 267.56 60.92 20 14 28 3494.6 -35.62 174.04
 122.68 2 16 58 2771.36 -32.01 80.75 267.55 60.91 3 3 9 2171.4 -35.61 72.57

DIFFERENTIAL CORRECTIONS

TDE 1.7081 TRA .1755 TC3-6.4092 BAU 1.0876
 RDE .3458 RRA .0586 RC3 -.3493 FAU .04864
 FDE .8726 FRA .5506 FC3-3.3226 BSP 17126
 BDE 1.7427 BRA .1850 BC3 6.4187 FSP -862

MID-COURSE EXECUTION ACCURACY

SGT 5341.1 SGR 622.8 SG3 259.2
 RRT .8158 RRF .8148 RTF .9432
 SGB 5377.2 R23 .0724 R13 .9437
 SG1 5365.3 SG2 358.6 THA 5.46

ORBIT DETERMINATION ACCURACY

ST 2754.8 SR 557.9 SS 781.8
 CRT .9990 CRS -.9829 CST -.9784
 LSA 2913.2 MSA 155.9 SSA 19.9
 EL1 2810.6 EL2 24.7 ALF 11.44

LAUNCH DATE FEB 11 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 503.996

RL 147.66 LAL .00 LOL 142.09 VL 26.948 GAL 1.05 AZL 87.03 MCA 243.12 SMA 123.87 ECC .19288 INC 2.9681 VI 30.173
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.109 GAP 8.52 AZP 91.34 TAL 175.61 TAP 58.72 RCA 99.98 APO 147.76 V2 34.957
 RC 159.953 GL 23.11 GP -20.40 ZAL 87.18 ZAP 154.10 ETS 313.01 ZAE 128.79 ETE 196.65 ZAC 137.70 ETC 184.11 CLP-163.69

PLANETOCENTRIC CONIC

C3 12.635 VHL 3.555 DLA 41.33 RAL 45.59 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.367 DPA -5.72 RAP 46.76 ECC 1.2079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.54 19 29 1 4079.79 -31.45 180.57 271.55 61.67 20 37 1 3479.8 -34.96 172.39
 121.46 2 29 25 2784.91 -31.44 81.57 271.54 61.65 3 15 50 2184.9 -34.95 73.39
 58.54 19 29 1 4079.79 -31.45 180.57 271.55 61.67 20 37 1 3479.8 -34.96 172.39
 121.46 2 29 25 2784.91 -31.44 81.57 271.54 61.65 3 15 50 2184.9 -34.95 73.39
 58.54 19 29 1 4079.79 -31.45 180.57 271.55 61.67 20 37 1 3479.8 -34.96 172.39
 121.46 2 29 25 2784.91 -31.44 81.57 271.54 61.65 3 15 50 2184.9 -34.95 73.39

DIFFERENTIAL CORRECTIONS

TDE 1.6554 TRA .3704 TC3-6.5224 BAU 1.1031
 RDE .3387 RRA .0708 RC3 -.3207 FAU .04605
 FDE .7882 FRA .6351 FC3-3.1554 BSP 17314
 BOE 1.6897 BRA .3771 BC3 6.5303 FSP -835

MID-COURSE EXECUTION ACCURACY

SGT 5408.5 SGR 610.9 SG3 252.0
 RRT .7974 RRF .7928 RTF .9431
 SGB 5442.9 R23 .0617 R13 .9435
 SG1 5430.5 SG2 367.1 THA 5.17

ORBIT DETERMINATION ACCURACY

ST 2682.5 SR 548.0 SS 735.2
 CRT .9992 CRS -.9734 CST -.9755
 LSA 2830.4 MSA 156.7 SSA 21.1
 EL1 2737.8 EL2 21.4 ALF 11.54

LAUNCH DATE FEB 11 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 509.774

RL 147.66 LAL .00 LOL 142.09 VL 26.908 GAL 1.44 AZL 87.24 MCA 246.30 SMA 123.62 ECC .19601 INC 2.7572 VI 30.173
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.092 GAP 8.83 AZP 91.11 TAL 174.05 TAP 60.36 RCA 99.39 APO 147.85 V2 34.970
 RC 162.097 GL 21.27 GP -19.37 ZAL 84.20 ZAP 155.50 ETS 312.56 ZAE 128.94 ETE 195.82 ZAC 139.77 ETC 183.76 CLP-164.71

PLANETOCENTRIC CONIC

C3 12.720 VHL 3.566 DLA 40.42 RAL 50.00 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 6.510 DPA -4.06 RAP 48.34 ECC 1.2093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.86 19 52 27 4064.86 -30.77 178.86 275.66 62.37 3 27 50 3464.9 -34.20 170.71
 120.14 2 41 7 2802.69 -30.76 82.67 275.65 62.37 3 27 50 2202.7 -34.19 74.52
 59.86 19 52 27 4064.86 -30.77 178.86 275.66 62.37 3 27 50 3464.9 -34.20 170.71
 120.14 2 41 7 2802.69 -30.76 82.67 275.65 62.37 3 27 50 2202.7 -34.19 74.52
 59.86 19 52 27 4064.86 -30.77 178.86 275.66 62.37 3 27 50 3464.9 -34.20 170.71
 120.14 2 41 7 2802.69 -30.76 82.67 275.65 62.37 3 27 50 2202.7 -34.19 74.52

DIFFERENTIAL CORRECTIONS

TDE 1.5889 TRA .5693 TC3-6.5782 BAU 1.1198
 RDE .3330 RRA .0820 RC3 -.2964 FAU .04366
 FDE .7018 FRA .7086 FC3-2.9720 BSP 17579
 BOE 1.6234 BRA .5752 BC3 6.5849 FSP -814

MID-COURSE EXECUTION ACCURACY

SGT 5475.0 SGR 600.7 SG3 244.4
 RRT .7801 RRF .7710 RTF .9441
 SGB 5507.8 R23 .0497 R13 .9444
 SG1 5495.1 SG2 374.5 THA 4.91

ORBIT DETERMINATION ACCURACY

ST 2581.8 SR 537.5 SS 683.5
 CRT .9981 CRS -.9597 CST -.9718
 LSA 2719.5 MSA 159.2 SSA 22.1
 EL1 2636.9 EL2 32.1 ALF 11.74

LAUNCH DATE FEB 11 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 515.531

RL 147.66 LAL .00 LOL 142.09 VL 26.868 GAL 1.86 AZL 87.44 MCA 249.49 SMA 123.37 ECC .19939 INC 2.5562 VI 30.173
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.075 GAP 9.14 AZP 90.90 TAL 172.50 TAP 61.99 RCA 98.77 APO 147.98 V2 34.983
 RC 164.221 GL 19.46 GP -18.44 ZAL 81.14 ZAP 156.82 ETS 311.96 ZAE 129.07 ETE 195.07 ZAC 141.86 ETC 183.41 CLP-165.70

PLANETOCENTRIC CONIC

C3 12.930 VHL 3.596 DLA 39.44 RAL 54.36 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.664 DPA -2.49 RAP 50.00 ECC 1.2128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.32 20 16 32 4049.49 -29.97 177.09 279.85 63.07 21 24 2 3449.5 -33.32 168.97
 118.68 2 51 49 2825.10 -29.96 84.09 279.85 63.06 3 38 54 2225.1 -33.31 75.97
 61.32 20 16 32 4049.49 -29.97 177.09 279.85 63.07 21 24 2 3449.5 -33.32 168.97
 118.68 2 51 49 2825.10 -29.96 84.09 279.85 63.06 3 38 54 2225.1 -33.31 75.97
 61.32 20 16 32 4049.49 -29.97 177.09 279.85 63.07 21 24 2 3449.5 -33.32 168.97
 118.68 2 51 49 2825.10 -29.96 84.09 279.85 63.06 3 38 54 2225.1 -33.31 75.97

DIFFERENTIAL CORRECTIONS

TDE 1.5133 TRA .7795 TC3-6.5599 BAU 1.1349
 RDE .3292 RRA .0937 RC3 -.2729 FAU .04123
 FDE .6187 FRA .7797 FC3-2.7604 BSP 17802
 BOE 1.5486 BRA .7851 BC3 6.5655 FSP -789

MID-COURSE EXECUTION ACCURACY

SGT 5536.8 SGR 592.5 SG3 236.6
 RRT .7626 RRF .7505 RTF .9450
 SGB 5568.4 R23 .0409 R13 .9452
 SG1 5555.3 SG2 382.1 THA 4.69

ORBIT DETERMINATION ACCURACY

ST 2463.1 SR 527.8 SS 633.0
 CRT .9951 CRS -.9402 CST -.9671
 LSA 2592.0 MSA 165.2 SSA 22.8
 EL1 2518.5 EL2 50.9 ALF 12.04

LAUNCH DATE FEB 11 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 521.265

RL 147.66 LAL .00 LOL 142.09 VL 26.828 GAL 2.29 AZL 87.64 MCA 252.69 SMA 123.13 ECC .20304 INC 2.3634 VI 30.173
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.059 GAP 9.47 AZP 90.70 TAL 170.93 TAP 63.62 RCA 98.13 APO 148.13 V2 34.996
 RC 166.326 GL 17.66 GP -17.60 ZAL 78.04 ZAP 158.05 ETS 311.21 ZAE 129.17 ETE 194.39 ZAC 143.97 ETC 183.05 CLP-166.68

PLANETOCENTRIC CONIC

C3 13.272 VHL 3.643 DLA 38.39 RAL 58.64 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 6.830 DPA -1.02 RAP 51.74 ECC 1.2184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.92 20 41 17 4033.16 -29.06 175.20 284.11 63.73 21 48 30 3433.2 -32.34 167.13
 117.08 3 1 14 2852.70 -29.05 85.87 284.10 63.72 3 48 47 2252.7 -32.33 77.79
 62.92 20 41 17 4033.16 -29.06 175.20 284.11 63.73 21 48 30 3433.2 -32.34 167.13
 117.08 3 1 14 2852.70 -29.05 85.87 284.10 63.72 3 48 47 2252.7 -32.33 77.79
 62.92 20 41 17 4033.16 -29.06 175.20 284.11 63.73 21 48 30 3433.2 -32.34 167.13
 117.08 3 1 14 2852.70 -29.05 85.87 284.10 63.72 3 48 47 2252.7 -32.33 77.79

DIFFERENTIAL CORRECTIONS

TDE 1.4270 TRA .9999 TC3-6.4710 BAU 1.1490
 RDE .3268 RRA .1059 RC3 -.2511 FAU .03883
 FDE .5374 FRA .8466 FC3-2.5332 BSP 18016
 BOE 1.4639 BRA 1.0055 BC3 6.4759 FSP -765

MID-COURSE EXECUTION ACCURACY

SGT 5593.9 SGR 585.4 SG3 228.7
 RRT .7457 RRF .7310 RTF .9460
 SGB 5624.5 R23 .0333 R13 .9462
 SG1 5611.0 SG2 388.9 THA 4.48

ORBIT DETERMINATION ACCURACY

ST 2327.9 SR 517.9 SS 583.3
 CRT .9892 CRS -.9125 CST -.9610
 LSA 2448.7 MSA 175.3 SSA 23.0
 EL1 2383.7 EL2 74.3 ALF 12.42

LAUNCH DATE FEB 11 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.788 GAL 2.74 AZL 87.82 HCA 255.88 SMA 122.89 ECC .20697 INC 2.1769 V1 30.173
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.043 GAP 9.81 AZP 90.53 TAL 169.37 TAP 65.25 RCA 97.45 APO 148.32 V2 35.010
 RC 168.410 GL 15.91 GP -16.84 ZAL 74.92 ZAP 159.21 ETS 310.30 ZAE 129.26 ETE 193.79 ZAC 146.11 ETC 182.65 CLP-167.64

PLANETOCENTRIC CONIC
 C3 13.754 VHL 3.709 DLA 37.28 RAL 62.81 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 7.007 DPA .36 RAP 53.54 ECC 1.2264
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.67 21 6 45 4015.27 -28.05 173.18 288.39 64.38 22 13 40 3415.3 -31.25 165.15
 115.33 3 9 4 2886.14 -28.04 88.05 288.39 64.37 3 57 10 2286.1 -31.25 80.03
 64.67 21 6 45 4015.27 -28.05 173.18 288.39 64.38 22 13 40 3415.3 -31.25 165.15
 115.33 3 9 4 2886.14 -28.04 88.05 288.39 64.37 3 57 10 2286.1 -31.25 80.03
 64.67 21 6 45 4015.27 -28.05 173.18 288.39 64.38 22 13 40 3415.3 -31.25 165.15
 115.33 3 9 4 2886.14 -28.04 88.05 288.39 64.37 3 57 10 2286.1 -31.25 80.03

MID-COURSE EXECUTION ACCURACY
 SGT 5645.8 SGR 579.7 SG3 220.8
 RRT .7297 RRF .7135 RTF .9469
 SGB 5675.5 R23 .0280 R13 .9470
 SG1 5661.7 SG2 395.3 THA 4.31

ORBIT DETERMINATION ACCURACY
 ST 2187.1 SR 508.5 SS 538.8
 CRT .9788 CRS -.8747 CST -.9540
 LSA 2301.2 MSA 190.2 SSA 22.8
 EL1 2243.2 EL2 101.5 ALF 12.85

DIFFERENTIAL CORRECTIONS
 TDE 1.3339 TRA 1.2344 TC3-6.3071 BAU 1.1605
 RDE .3260 RRA .1189 RC3 -.2297 FAU .03640
 FDE .4611 FRA .9120 FC3-2.2912 BSP 18157
 BDE 1.3732 BRA 1.2401 BC3 6.3113 FSP -737

LAUNCH DATE FEB 11 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.749 GAL 3.22 AZL 88.00 HCA 259.08 SMA 122.65 ECC .21122 INC 1.9955 V1 30.173
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.027 GAP 10.17 AZP 90.38 TAL 167.80 TAP 66.88 RCA 96.74 APO 148.55 V2 35.023
 RC 170.474 GL 14.19 GP -16.16 ZAL 71.81 ZAP 160.31 ETS 309.22 ZAE 129.34 ETE 193.24 ZAC 148.26 ETC 182.23 CLP-168.59

PLANETOCENTRIC CONIC
 C3 14.388 VHL 3.793 DLA 36.11 RAL 66.85 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 7.196 DPA 1.66 RAP 55.40 ECC 1.2368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.59 21 33 2 3995.17 -26.95 170.97 292.68 65.00 22 39 37 3395.2 -30.08 163.00
 113.41 3 15 0 2926.07 -26.94 90.69 292.68 64.99 4 3 46 2326.1 -30.07 82.72
 66.59 21 33 2 3995.17 -26.95 170.97 292.68 65.00 22 39 37 3395.2 -30.08 163.00
 113.41 3 15 0 2926.07 -26.94 90.69 292.68 64.99 4 3 46 2326.1 -30.07 82.72
 66.59 21 33 2 3995.17 -26.95 170.97 292.68 65.00 22 39 37 3395.2 -30.08 163.00
 113.41 3 15 0 2926.07 -26.94 90.69 292.68 64.99 4 3 46 2326.1 -30.07 82.72

MID-COURSE EXECUTION ACCURACY
 SGT 5694.6 SGR 573.6 SG3 212.9
 RRT .7146 RRF .6967 RTF .9479
 SGB 5723.4 R23 .0228 R13 .9480
 SG1 5709.4 SG2 400.2 THA 4.14

ORBIT DETERMINATION ACCURACY
 ST 2035.8 SR 497.9 SS 496.7
 CRT .9619 CRS -.8222 CST -.9452
 LSA 2143.4 MSA 210.4 SSA 22.2
 EL1 2091.6 EL2 132.5 ALF 13.29

DIFFERENTIAL CORRECTIONS
 TDE 1.2275 TRA 1.4777 TC3-6.0917 BAU 1.1724
 RDE .3259 RRA .1322 RC3 -.2106 FAU .03413
 FDE .3851 FRA .9728 FC3-2.0534 BSP 18362
 BDE 1.2701 BRA 1.4836 BC3 6.0954 FSP -715

LAUNCH DATE FEB 11 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.709 GAL 3.72 AZL 88.18 HCA 262.28 SMA 122.41 ECC .21580 INC 1.8178 V1 30.173
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.011 GAP 10.54 AZP 90.24 TAL 166.24 TAP 68.52 RCA 95.99 APO 148.83 V2 35.036
 RC 172.518 GL 12.53 GP -15.53 ZAL 68.73 ZAP 161.33 ETS 307.94 ZAE 129.40 ETE 192.75 ZAC 150.44 ETC 181.75 CLP-169.52

PLANETOCENTRIC CONIC
 C3 15.187 VHL 3.897 DLA 34.90 RAL 70.73 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 7.398 DPA 2.88 RAP 57.32 ECC 1.2499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.68 22 0 16 3971.94 -25.77 168.52 296.96 65.60 23 6 28 3371.9 -28.84 160.61
 111.32 3 18 43 2973.41 -25.76 93.84 296.96 65.59 4 8 16 2373.4 -28.83 85.94
 68.68 22 0 16 3971.94 -25.77 168.52 296.96 65.60 23 6 28 3371.9 -28.84 160.61
 111.32 3 18 43 2973.41 -25.76 93.84 296.96 65.59 4 8 16 2373.4 -28.83 85.94
 68.68 22 0 16 3971.94 -25.77 168.52 296.96 65.60 23 6 28 3371.9 -28.84 160.61
 111.32 3 18 43 2973.41 -25.76 93.84 296.96 65.59 4 8 16 2373.4 -28.83 85.94

MID-COURSE EXECUTION ACCURACY
 SGT 5738.5 SGR 567.7 SG3 205.1
 RRT .7006 RRF .6813 RTF .9490
 SGB 5766.5 R23 .0184 R13 .9491
 SG1 5752.3 SG2 404.2 THA 3.98

ORBIT DETERMINATION ACCURACY
 ST 1888.1 SR 487.1 SS 461.3
 CRT .9356 CRS -.7538 CST -.9361
 LSA 1989.7 MSA 235.4 SSA 21.3
 EL1 1942.7 EL2 167.2 ALF 13.67

DIFFERENTIAL CORRECTIONS
 TDE 1.1130 TRA 1.7332 TC3-5.8231 BAU 1.1830
 RDE .3270 RRA .1462 RC3 -.1927 FAU .03191
 FDE .3130 FRA 1.0307 FC3-1.8192 BSP 18557
 BDE 1.1600 BRA 1.7393 BC3 5.8263 FSP -692

LAUNCH DATE FEB 11 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.671 GAL 4.24 AZL 88.36 HCA 265.49 SMA 122.18 ECC .22076 INC 1.6426 V1 30.173
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.996 GAP 10.93 AZP 90.13 TAL 164.67 TAP 70.16 RCA 95.20 APO 149.15 V2 35.050
 RC 174.540 GL 10.93 GP -14.96 ZAL 65.72 ZAP 162.30 ETS 306.46 ZAE 129.46 ETE 192.30 ZAC 152.62 ETC 181.21 CLP-170.44

PLANETOCENTRIC CONIC
 C3 16.170 VHL 4.021 DLA 33.67 RAL 74.44 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 7.614 DPA 4.04 RAP 59.29 ECC 1.2661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.98 22 28 45 3944.45 -24.52 165.75 301.22 66.18 23 34 30 3344.5 -27.53 157.91
 109.02 3 19 49 3029.26 -24.51 97.59 301.22 66.17 4 10 18 2429.3 -27.52 89.75
 70.98 22 28 45 3944.45 -24.52 165.75 301.22 66.18 23 34 30 3344.5 -27.53 157.91
 109.02 3 19 49 3029.26 -24.51 97.59 301.22 66.17 4 10 18 2429.3 -27.52 89.75
 110.00 4 10 48 2873.31 -28.40 87.20 302.96 70.12 4 58 42 2273.3 -30.84 78.85
 110.00 2 40 52 3148.40 -20.76 104.89 299.25 62.21 3 33 20 2548.4 -24.31 97.54

MID-COURSE EXECUTION ACCURACY
 SGT 5777.4 SGR 561.7 SG3 197.5
 RRT .6875 RRF .6673 RTF .9501
 SGB 5804.7 R23 .0150 R13 .9501
 SG1 5790.4 SG2 407.0 THA 3.84

ORBIT DETERMINATION ACCURACY
 ST 1751.7 SR 476.1 SS 433.9
 CRT .8963 CRS -.6688 CST -.9279
 LSA 1847.4 MSA 264.7 SSA 20.3
 EL1 1803.7 EL2 205.0 ALF 13.87

DIFFERENTIAL CORRECTIONS
 TDE .9910 TRA 2.0018 TC3-5.5105 BAU 1.1919
 RDE .3290 RRA .1608 RC3 -.1755 FAU .02975
 FDE .2451 FRA 1.0868 FC3-1.5928 BSP 18728
 BDE 1.0442 BRA 2.0082 BC3 5.5133 FSP -670

LAUNCH DATE FEB 11 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 549.492

RL 147.66 LAL .00 LOL 142.09 VL 26.632 GAL 4.79 AZL 88.53 HCA 268.69 SMA 121.94 ECC .22613 INC 1.4689 VI 30.173
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.980 GAP 11.35 AZP 90.03 TAL 163.12 TAP 71.81 RCA 94.37 APO 149.52 V2 35.063
 RC 176.542 GL 9.40 GP -14.44 ZAL 62.78 ZAP 163.21 ETS 304.75 ZAE 129.50 ETE 191.90 ZAC 154.82 ETC 180.59 CLP-171.35

PLANETOCENTRIC CONIC

C3 17.358 VHL 4.166 DLA 32.41 RAL 77.96 RAD 6567.7 VEL 11.779 PTH 2.08 VHP 7.844 OPA 5.12 RAP 61.31 ECC 1.2857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.53 22 59 2 3910.59 -23.23 162.53 305.45 66.73 24 4 13 3310.6 -26.17 154.75
 106.47 3 17 38 3095.66 -23.22 102.09 305.44 66.72 4 9 13 2495.7 -26.16 94.32
 73.53 22 59 2 3910.59 -23.23 162.53 305.45 66.73 24 4 13 3310.6 -26.17 154.75
 106.47 3 17 38 3095.66 -23.22 102.09 305.44 66.72 4 9 13 2495.7 -26.16 94.32
 110.00 5 2 49 2770.99 -30.55 80.02 308.39 73.87 5 49 0 2171.0 -32.46 71.32
 110.00 2 16 57 3283.26 -16.28 112.78 301.71 59.52 3 11 40 2683.3 -20.20 105.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8653 TRA 2.2880 TC3-5.1569 BAU 1.1972 SGT 5811.4 SGR 555.8 SG3 190.2 ST 1638.0 SR 465.1 SS 415.9
 RDE .3323 RRA .1765 RC3 -.1583 FAU .02756 RRT .6757 RRF .6552 RTF .9510 CRT .8412 CRS -.5718 CST -.9235
 FDE .1827 FRA 1.1433 FC3-1.3748 BSP 18809 SGB 5837.9 R23 .0128 R13 .9510 LSA 1727.5 MSA 296.3 SSA 19.3
 BDE .9269 BRA 2.2948 BC3 5.1593 FSP -644 SGI 5823.6 SG2 408.9 THA 3.72 EL1 1685.1 EL2 244.5 ALF 13.73

LAUNCH DATE FEB 11 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 555.020

RL 147.66 LAL .00 LOL 142.09 VL 26.593 GAL 5.37 AZL 88.70 HCA 271.90 SMA 121.72 ECC .23194 INC 1.2955 VI 30.173
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.965 GAP 11.78 AZP 89.96 TAL 161.57 TAP 73.47 RCA 93.49 APO 149.95 V2 35.076
 RC 178.523 GL 7.94 GP -13.97 ZAL 59.93 ZAP 164.06 ETS 302.79 ZAE 129.54 ETE 191.53 ZAC 157.03 ETC 179.85 CLP-172.25

PLANETOCENTRIC CONIC

C3 18.775 VHL 4.333 DLA 31.16 RAL 81.29 RAD 6567.8 VEL 11.839 PTH 2.10 VHP 8.091 OPA 6.13 RAP 63.37 ECC 1.3090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.43 23 32 7 3866.94 -21.90 158.60 309.64 67.27 24 36 34 3266.9 -24.79 150.89
 103.57 3 11 7 3175.96 -21.89 107.57 309.63 67.25 4 4 3 2576.0 -24.78 99.86
 76.43 23 32 7 3866.94 -21.90 158.60 309.64 67.27 24 36 34 3266.9 -24.79 150.89
 103.57 3 11 7 3175.96 -21.89 107.57 309.63 67.25 4 4 3 2576.0 -24.78 99.86
 110.00 5 41 16 2708.44 -31.65 75.47 313.22 76.35 6 26 25 2108.4 -33.20 66.59
 110.00 2 5 4 3382.45 -12.77 118.33 304.70 58.02 3 1 27 2782.5 -16.91 111.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7297 TRA 2.5852 TC3-4.7903 BAU 1.2029 SGT 5841.3 SGR 548.9 SG3 183.0 ST 1543.6 SR 453.2 SS 404.4
 RDE .3360 RRA .1925 RC3 -.1429 FAU .02555 RRT .6647 RRF .6436 RTF .9521 CRT .7664 CRS -.4633 CST -.9233
 FDE .1223 FRA 1.1965 FC3-1.1783 BSP 18967 SGB 5867.0 R23 .0102 R13 .9521 LSA 1625.9 MSA 328.3 SSA 18.3
 BDE .8034 BRA 2.5923 BC3 4.7924 FSP -623 SGI 5852.8 SG2 409.3 THA 3.59 EL1 1583.5 EL2 283.8 ALF 13.11

LAUNCH DATE FEB 11 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 560.496

RL 147.66 LAL .00 LOL 142.09 VL 26.555 GAL 5.98 AZL 88.88 HCA 275.11 SMA 121.49 ECC .23825 INC 1.1213 VI 30.173
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.950 GAP 12.25 AZP 89.90 TAL 160.04 TAP 75.15 RCA 92.55 APO 150.44 V2 35.089
 RC 180.483 GL 6.56 GP -13.54 ZAL 57.20 ZAP 164.86 ETS 300.57 ZAE 129.57 ETE 191.19 ZAC 159.24 ETC 178.96 CLP-173.15

PLANETOCENTRIC CONIC

C3 20.454 VHL 4.523 DLA 29.91 RAL 84.43 RAD 6567.8 VEL 11.909 PTH 2.12 VHP 8.355 OPA 7.08 RAP 65.47 ECC 1.3366
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.94 0 14 21 3805.43 -20.55 153.40 313.78 67.78 1 17 46 3205.4 -23.39 145.75
 100.06 2 57 50 3278.08 -20.54 114.61 313.77 67.76 3 52 28 2678.1 -23.38 106.96
 79.94 0 14 21 3805.43 -20.55 153.40 313.78 67.78 1 17 46 3205.4 -23.39 145.75
 100.06 2 57 50 3278.08 -20.54 114.61 313.77 67.76 3 52 28 2678.1 -23.38 106.96
 110.00 6 13 45 2662.81 -32.33 72.09 317.79 78.25 6 58 8 2062.8 -33.61 63.09
 110.00 1 57 37 3468.69 -9.62 123.02 307.87 57.04 2 55 25 2868.7 -13.89 116.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5888 TRA 2.8988 TC3-4.4090 BAU 1.2062 SGT 5866.1 SGR 541.3 SG3 176.1 ST 1478.6 SR 441.1 SS 400.5
 RDE .3406 RRA .2091 RC3 -.1280 FAU .02359 RRT .6546 RRF .6331 RTF .9532 CRT .6728 CRS -.3529 CST -.9287
 FDE .0660 FRA 1.2492 FC3 -.9984 BSP 19105 SGB 5891.0 R23 .0080 R13 .9533 LSA 1553.5 MSA 357.0 SSA 17.3
 BDE .6802 BRA 2.9063 BC3 4.4109 FSP -603 SGI 5876.9 SG2 408.5 THA 3.47 EL1 1509.5 EL2 319.7 ALF 11.89

LAUNCH DATE FEB 11 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 565.913

RL 147.66 LAL .00 LOL 142.09 VL 26.518 GAL 6.63 AZL 89.05 HCA 278.33 SMA 121.27 ECC .24509 INC .9453 VI 30.173
 RP 107.96 LAP -.94 LOP 60.42 VP 36.935 GAP 12.74 AZP 89.86 TAL 158.52 TAP 76.84 RCA 91.55 APO 150.99 V2 35.102
 RC 182.422 GL 5.26 GP -13.14 ZAL 54.58 ZAP 165.60 ETS 298.05 ZAE 129.58 ETE 190.89 ZAC 161.46 ETC 177.85 CLP-174.05

PLANETOCENTRIC CONIC

C3 22.431 VHL 4.736 DLA 28.69 RAL 87.37 RAD 6567.9 VEL 11.992 PTH 2.14 VHP 8.640 OPA 7.97 RAP 67.60 ECC 1.3692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.21 1 7 55 3693.24 -19.20 144.54 317.87 68.27 2 9 28 3093.2 -21.98 136.94
 94.79 2 27 45 3434.72 -19.18 125.60 317.87 68.25 3 25 0 2834.7 -21.97 118.00
 100.00 4 20 22 3072.49 -25.24 101.15 320.14 73.42 5 11 35 2472.5 -27.27 92.94
 100.00 1 57 59 3530.69 -13.36 129.91 315.12 63.01 2 56 50 2930.7 -16.87 122.88
 110.00 6 42 19 2628.08 -32.78 69.48 322.20 79.73 7 26 7 2028.1 -32.85 60.41
 110.00 1 52 31 3547.88 -6.66 127.24 311.15 56.39 2 51 39 2947.9 -11.03 120.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4428 TRA 3.2296 TC3-4.0235 BAU 1.2071 SGT 5886.2 SGR 533.0 SG3 169.6 ST 1444.0 SR 428.8 SS 402.6
 RDE .3459 RRA .2262 RC3 -.1138 FAU .02169 RRT .6453 RRF .6236 RTF .9544 CRT .5645 CRS -.2477 CST -.9386
 FDE .0135 FRA 1.3017 FC3 -.8370 BSP 19226 SGB 5910.3 R23 .0062 R13 .9545 LSA 1512.3 MSA 379.2 SSA 16.4
 BDE .5619 BRA 3.2375 BC3 4.0251 FSP -582 SGI 5896.3 SG2 406.5 THA 3.36 EL1 1465.4 EL2 348.8 ALF 10.10

LAUNCH DATE FEB 11 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.480 GAL 7.32 AZL 89.23 HCA 281.54 SMA 121.05 ECC .25255 INC .7660 V1 30.173
 RP 107.92 LAP -.75 LOP 63.64 VP 36.920 GAP 13.26 AZP 89.85 TAL 157.02 TAP 78.56 RCA 90.48 APO 151.62 V2 35.114
 RC 184.340 GL 4.05 GP -12.78 ZAL 52.09 ZAP 166.27 ETS 295.21 ZAE 129.59 ETE 190.60 ZAC 163.67 ETC 176.45 CLP-174.95

PLANETOCENTRIC CONIC
 C3 24.751 VHL 4.975 DLA 27.49 RAL 90.13 RAD 6568.0 VEL 12.088 PTH 2.16 VHP 8.946 DPA 8.79 RAP 69.76 ECC 1.4073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 48 3392.59 -22.83 123.90 323.78 72.78 3 55 21 2792.6 -24.97 115.88
 90.00 0 58 50 3783.46 -12.99 148.31 319.75 64.61 2 1 54 3183.5 -16.30 141.20
 100.00 5 0 28 3000.39 -26.54 96.19 324.93 75.72 5 50 28 2400.4 -28.24 87.80
 100.00 1 39 51 3650.89 -9.55 136.80 317.97 61.54 2 40 42 3050.9 -13.28 130.00
 110.00 7 7 55 2601.53 -33.09 67.47 326.49 80.88 7 51 16 2001.5 -33.99 58.35
 110.00 1 48 52 3622.50 -3.83 131.17 314.48 56.01 2 49 15 3022.5 -8.27 124.89

DIFFERENTIAL CORRECTIONS
 TOE .2955 TRA 3.5828 TC3-3.6349 BAU 1.2032 SGT 5901.9 SGR 524.2 SG3 163.3 ST 1440.4 SR 416.6 SS 409.6
 RDE .3522 RRA .2440 RC3 -.0998 FAU .01977 RRT .6370 RRF .6156 RTF .9557 CRT .4515 CRS -.1556 CST -.9508
 FDE -.0340 FRA 1.3561 FC3 -.6915 BSP 19245 SGB 5925.1 R23 .0052 R13 .9558 LSA 1504.0 MSA 392.2 SSA 15.6
 BOE .4598 BRA 3.5911 BC3 3.6363 FSP -559 SG1 5911.4 SG2 403.4 THA 3.25 EL1 1453.5 EL2 368.4 ALF 7.96

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.443 GAL 8.05 AZL 89.42 HCA 284.76 SMA 120.83 ECC .26067 INC .5827 V1 30.173
 RP 107.88 LAP -.56 LOP 66.85 VP 36.905 GAP 13.83 AZP 89.85 TAL 155.54 TAP 80.30 RCA 89.34 APO 152.33 V2 35.126
 RC 186.236 GL 2.91 GP -12.45 ZAL 49.74 ZAP 166.89 ETS 292.04 ZAE 129.58 ETE 190.34 ZAC 165.86 ETC 174.61 CLP-175.86

PLANETOCENTRIC CONIC
 C3 27.468 VHL 5.241 DLA 26.33 RAL 92.69 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 9.276 DPA 9.56 RAP 71.94 ECC 1.4521
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 56 3309.07 -24.40 118.28 328.63 75.17 4 37 5 2709.1 -26.20 110.08
 90.00 0 36 12 3918.53 -8.92 156.15 322.48 63.01 1 41 31 3318.5 -12.47 149.27
 100.00 5 32 21 2953.11 -27.29 92.88 329.41 77.31 6 21 34 2353.1 -28.77 84.39
 100.00 1 28 28 3749.73 -6.29 142.34 321.06 60.72 2 30 58 3149.7 -10.15 135.67
 110.00 7 31 3 2581.71 -33.29 65.96 330.70 81.76 8 14 5 1981.7 -34.07 56.80
 110.00 1 46 16 3693.89 -1.11 134.90 317.85 55.83 2 47 50 3093.9 -5.58 128.67

DIFFERENTIAL CORRECTIONS
 TOE .1389 TRA 3.9519 TC3-3.2629 BAU 1.1986 SGT 5912.6 SGR 513.9 SG3 157.3 ST 1457.7 SR 403.8 SS 419.5
 RDE .3588 RRA .2617 RC3 -.0871 FAU .01800 RRT .6288 RRF .6076 RTF .9573 CRT .3369 CRS -.0712 CST -.9624
 FDE -.0802 FRA 1.4092 FC3 -.5675 BSP 19357 SGB 5934.9 R23 .0037 R13 .9573 LSA 1518.7 MSA 396.6 SSA 14.9
 BOE .3848 BRA 3.9606 BC3 3.2640 FSP -541 SG1 5921.4 SG2 399.0 THA 3.14 EL1 1464.5 EL2 378.4 ALF 5.71

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.407 GAL 8.84 AZL 89.61 HCA 287.98 SMA 120.62 ECC .26955 INC .3935 V1 30.173
 RP 107.85 LAP -.37 LOP 70.07 VP 36.891 GAP 14.43 AZP 89.88 TAL 154.09 TAP 82.07 RCA 88.11 APO 153.14 V2 35.138
 RC 188.109 GL 1.86 GP -12.14 ZAL 47.52 ZAP 167.44 ETS 288.49 ZAE 129.56 ETE 190.09 ZAC 168.03 ETC 172.10 CLP-176.77

PLANETOCENTRIC CONIC
 C3 30.648 VHL 5.536 DLA 25.22 RAL 95.09 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 9.634 DPA 10.26 RAP 74.14 ECC 1.5044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 34 3258.17 -25.24 114.79 333.10 76.73 5 8 53 2658.2 -26.82 106.48
 90.00 0 22 39 4024.22 -5.61 162.15 325.52 62.20 1 29 44 3424.2 -9.29 155.40
 100.00 5 59 32 2919.78 -27.77 90.52 333.73 78.47 6 48 12 2319.8 -29.08 81.96
 100.00 1 20 23 3837.83 -3.34 147.21 324.27 60.28 2 24 21 3237.8 -7.27 140.62
 110.00 7 52 5 2567.62 -33.42 64.88 334.83 82.38 8 34 53 1967.6 -34.12 55.70
 110.00 1 44 19 3762.76 1.53 138.49 321.24 55.85 2 47 1 3162.8 -2.96 132.28

DIFFERENTIAL CORRECTIONS
 TOE -.0223 TRA 4.3437 TC3-2.9043 BAU 1.1904 SGT 5918.9 SGR 502.7 SG3 151.6 ST 1494.1 SR 390.8 SS 431.6
 RDE .3661 RRA .2795 RC3 -.0751 FAU .01629 RRT .6209 RRF .6001 RTF .9591 CRT .2303 CRS .0006 CST -.9724
 FDE -.1233 FRA 1.4637 FC3 -.4601 BSP 19442 SGB 5940.2 R23 .0025 R13 .9591 LSA 1554.5 MSA 393.1 SSA 14.2
 BOE .3667 BRA 4.3527 BC3 2.9052 FSP -522 SG1 5927.2 SG2 393.5 THA 3.03 EL1 1496.9 EL2 379.6 ALF 3.68

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.371 GAL 9.68 AZL 89.80 HCA 291.20 SMA 120.42 ECC .27926 INC .1972 V1 30.173
 RP 107.81 LAP -.18 LOP 73.29 VP 36.876 GAP 15.09 AZP 89.93 TAL 152.68 TAP 83.87 RCA 86.79 APO 154.04 V2 35.150
 RC 189.959 GL .88 GP -11.86 ZAL 45.43 ZAP 167.92 ETS 284.57 ZAE 129.51 ETE 189.86 ZAC 170.17 ETC 168.50 CLP-177.69

PLANETOCENTRIC CONIC
 C3 34.371 VHL 5.863 DLA 24.15 RAL 97.31 RAD 6568.4 VEL 12.480 PTH 2.26 VHP 10.023 DPA 10.91 RAP 76.36 ECC 1.5657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 50 3223.51 -25.76 112.39 337.39 77.82 5 35 33 2623.5 -27.19 104.01
 90.00 0 13 7 4116.62 -2.65 167.33 328.70 61.80 1 21 43 3516.6 -6.40 160.66
 100.00 6 23 21 2896.18 -28.08 88.83 337.91 79.30 7 11 38 2296.2 -29.27 80.23
 100.00 1 14 17 3919.18 -.59 151.67 327.55 60.11 2 19 36 3319.2 -4.56 145.14
 110.00 8 11 16 2558.55 -33.50 64.18 338.91 82.79 8 53 55 1958.5 -34.14 55.00
 110.00 1 42 51 3829.57 4.08 141.98 324.64 56.03 2 46 40 3229.6 -.41 135.77

DIFFERENTIAL CORRECTIONS
 TOE -.1888 TRA 4.7598 TC3-2.5626 BAU 1.1779 SGT 5920.5 SGR 490.3 SG3 146.2 ST 1543.1 SR 377.7 SS 445.3
 RDE .3739 RRA .2972 RC3 -.0639 FAU .01461 RRT .6132 RRF .5931 RTF .9610 CRT .1353 CRS .0608 CST -.9802
 FDE -.1638 FRA 1.5202 FC3 -.3681 BSP 19517 SGB 5940.8 R23 .0016 R13 .9610 LSA 1604.5 MSA 384.0 SSA 13.6
 BOE .4188 BRA 4.7691 BC3 2.5634 FSP -504 SG1 5928.1 SG2 386.8 THA 2.92 EL1 1544.0 EL2 374.0 ALF 2.01

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 591.708

RL 147.66 LAL .00 LOL 142.09 VL 26.336 GAL 10.58 AZL 90.01 MCA 294.42 SMA 120.21 ECC .28993 INC .0000 V1 30.173
 RP 107.78 LAP .01 LOP 76.52 VP 36.861 GAP 15.80 AZP 90.00 TAL 151.30 TAP 85.72 RCA 85.36 APO 155.07 V2 35.161
 RC 191.786 GL -.03 GP -11.60 ZAL 43.49 ZAP 168.31 ETS 280.27 ZAE 129.45 ETE 189.64 ZAC 172.23 ETC 162.95 CLP -178.63

PLANETOCENTRIC CONIC

C3 38.736 VHL 6.224 OLA 23.13 RAL 99.36 RAD 6568.5 VEL 12.653 PTH 2.30 VHP 10.448 OPA 11.50 RAP 78.59 ECC 1.6375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 28 3199.59 -26.10 110.71 341.54 78.60 5 58 47 2599.6 -27.41 102.29
 90.00 0 5 54 4200.95 .07 172.03 331.94 61.68 1 15 55 3601.0 -3.72 165.40
 100.00 6 44 33 2880.07 -28.28 87.67 342.00 79.88 7 32 33 2280.1 -29.38 79.04
 100.00 1 9 29 3995.70 2.01 155.87 330.87 60.17 2 16 5 3395.7 -1.97 149.35
 110.00 8 28 48 2553.94 -33.54 63.83 342.93 82.99 9 11 22 1953.9 -34.15 54.64
 110.00 1 41 44 3894.59 6.54 145.40 328.06 56.37 2 46 38 3294.6 2.08 139.16

DIFFERENTIAL CORRECTIONS

TOE -.3568 TRA 5.2071 TC3-2.2362 BAU 1.1584
 RDE .3825 RRA .3147 RC3 -.0531 FAU .01291
 FOE -.2006 FRA 1.5805 FC3 -.2885 BSP 19474
 BOE .5231 BRA 5.2166 BC3 2.2369 FSP -484

MID-COURSE EXECUTION ACCURACY

SGT 5918.5 SGR 477.1 SG3 141.1
 RRT .6058 RRF .5869 RTF .9631
 SGB 5937.7 R23 .0013 R13 .9631
 SG1 5925.5 SG2 379.2 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 1600.1 SR 364.6 SS 459.9
 CRT .0554 CRS .1084 CST -.9861
 LSA 1663.3 MSA 371.4 SSA 13.0
 EL1 1600.2 EL2 364.0 ALF .76

LAUNCH DATE FEB 11 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 596.489

RL 147.66 LAL .00 LOL 142.09 VL 26.301 GAL 11.55 AZL 90.22 MCA 297.65 SMA 120.01 ECC .30167 INC .2232 V1 30.173
 RP 107.75 LAP .20 LOP 79.74 VP 36.847 GAP 16.58 AZP 90.10 TAL 149.98 TAP 87.62 RCA 83.81 APO 156.22 V2 35.172
 RC 193.588 GL -.87 GP -11.37 ZAL 41.68 ZAP 168.62 ETS 275.58 ZAE 129.36 ETE 189.43 ZAC 174.16 ETC 153.64 CLP -179.58

PLANETOCENTRIC CONIC

C3 43.866 VHL 6.623 OLA 22.17 RAL 101.26 RAD 6568.7 VEL 12.854 PTH 2.34 VHP 10.913 OPA 12.03 RAP 80.81 ECC 1.7219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 18 3183.67 -26.31 109.60 345.58 79.12 6 19 22 2583.7 -27.54 101.15
 90.00 0 0 11 4279.63 2.61 176.42 335.23 61.79 1 11 31 3679.6 -1.18 169.80
 100.00 7 3 34 2870.05 -28.40 86.95 346.01 80.24 7 51 24 2270.1 -29.45 78.31
 100.00 1 5 36 4068.48 4.47 159.88 334.20 60.41 2 13 25 3468.5 .49 153.34
 110.00 8 44 48 2553.32 -33.55 63.78 346.89 83.02 9 27 22 1953.3 -34.15 54.59
 110.00 1 40 51 3957.98 8.91 148.77 331.48 56.86 2 46 49 3358.0 4.49 142.48

DIFFERENTIAL CORRECTIONS

TOE -.5364 TRA 5.6795 TC3-1.9360 BAU 1.1357
 RDE .3914 RRA .3313 RC3 -.0435 FAU .01132
 FOE -.2374 FRA 1.6421 FC3 -.2233 BSP 19541
 BOE .6640 BRA 5.6892 BC3 1.9365 FSP -468

MID-COURSE EXECUTION ACCURACY

SGT 5910.9 SGR 462.4 SG3 136.1
 RRT .5975 RRF .5797 RTF .9655
 SGB 5929.0 R23 .0007 R13 .9655
 SG1 5917.4 SG2 370.4 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 1659.7 SR 351.1 SS 475.2
 CRT -.0158 CRS .1514 CST -.9904
 LSA 1725.2 MSA 356.4 SSA 12.4
 EL1 1659.7 EL2 351.1 ALF 179.80

LAUNCH DATE FEB 11 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 601.083

RL 147.66 LAL .00 LOL 142.09 VL 26.267 GAL 12.60 AZL 90.45 MCA 300.87 SMA 119.82 ECC .31463 INC .4527 V1 30.173
 RP 107.71 LAP .39 LOP 82.97 VP 36.832 GAP 17.43 AZP 90.23 TAL 148.71 TAP 89.58 RCA 82.12 APO 157.52 V2 35.182
 RC 195.366 GL -1.64 GP -11.15 ZAL 40.01 ZAP 168.84 ETS 270.55 ZAE 129.23 ETE 189.23 ZAC 175.77 ETC 136.48 CLP 179.44

PLANETOCENTRIC CONIC

C3 49.914 VHL 7.065 OLA 21.25 RAL 103.00 RAD 6568.8 VEL 13.087 PTH 2.39 VHP 11.424 OPA 12.50 RAP 83.03 ECC 1.8215
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 44 52 3174.10 -26.43 108.92 349.52 79.44 6 37 47 2574.1 -27.62 100.46
 90.00 23 51 35 4353.95 4.99 180.59 338.54 62.09 25 4 9 3754.0 1.21 173.94
 100.00 7 20 41 2865.14 -28.45 86.60 349.92 80.42 8 8 27 2265.1 -29.48 77.95
 100.00 1 2 23 4138.14 6.79 163.74 337.55 60.82 2 11 21 3538.1 2.85 157.17
 110.00 8 59 25 2556.26 -33.52 64.01 350.79 82.89 9 42 1 1956.3 -34.14 54.82
 110.00 1 40 9 4019.79 11.20 152.11 334.89 57.49 2 47 8 3419.8 6.83 145.74

DIFFERENTIAL CORRECTIONS

TOE -.7223 TRA 6.1859 TC3-1.6599 BAU 1.1079
 RDE .4009 RRA .3470 RC3 -.0348 FAU .00973
 FOE -.2725 FRA 1.7079 FC3 -.1687 BSP 19579
 BOE .8261 BRA 6.1956 BC3 1.6603 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 5900.7 SGR 446.4 SG3 131.4
 RRT .5884 RRF .5722 RTF .9679
 SGB 5917.6 R23 .0007 R13 .9679
 SG1 5906.6 SG2 360.6 THA 2.56

ORBIT DETERMINATION ACCURACY

ST 1719.2 SR 337.5 SS 491.2
 CRT -.0760 CRS .1873 CST -.9934
 LSA 1787.4 MSA 340.4 SSA 11.9
 EL1 1719.4 EL2 336.5 ALF 179.11

LAUNCH DATE FEB 11 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 605.453

RL 147.66 LAL .00 LOL 142.09 VL 26.234 GAL 13.74 AZL 90.70 MCA 304.10 SMA 119.63 ECC .32897 INC .6982 V1 30.173
 RP 107.68 LAP .58 LOP 86.20 VP 36.818 GAP 18.36 AZP 90.39 TAL 147.51 TAP 91.62 RCA 80.28 APO 158.99 V2 35.192
 RC 197.118 GL -2.36 GP -10.95 ZAL 38.48 ZAP 168.94 ETS 265.21 ZAE 129.08 ETE 189.03 ZAC 176.64 ETC 105.94 CLP 178.43

PLANETOCENTRIC CONIC

C3 57.074 VHL 7.555 OLA 20.40 RAL 104.60 RAD 6569.0 VEL 13.358 PTH 2.44 VHP 11.989 OPA 12.92 RAP 85.24 ECC 1.9393
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 29 3169.75 -26.48 108.61 353.36 79.59 6 54 19 2569.7 -27.65 100.14
 90.00 23 47 40 4424.64 7.22 184.58 341.84 62.55 25 1 25 3824.6 3.49 177.89
 100.00 7 36 8 2864.58 -28.46 86.56 353.75 80.44 8 23 52 2264.6 -29.48 77.90
 100.00 0 59 39 4205.03 9.00 167.48 340.89 61.37 2 9 44 3605.0 5.11 160.86
 110.00 9 12 44 2562.35 -33.47 64.47 354.62 82.62 9 55 26 1962.4 -34.13 55.29
 110.00 1 39 32 4080.03 13.38 155.41 338.29 58.25 2 47 32 3480.0 9.08 148.94

DIFFERENTIAL CORRECTIONS

TOE -.9159 TRA 6.7305 TC3-1.3996 BAU 1.0681
 RDE .4110 RRA .3612 RC3 -.0269 FAU .00814
 FOE -.3065 FRA 1.7786 FC3 -.1234 BSP 19592
 BOE 1.0039 BRA 6.7402 BC3 1.3999 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 5883.3 SGR 429.2 SG3 127.0
 RRT .5785 RRF .5638 RTF .9707
 SGB 5898.9 R23 .0004 R13 .9707
 SG1 5888.5 SG2 349.8 THA 2.43

ORBIT DETERMINATION ACCURACY

ST 1776.5 SR 323.8 SS 508.0
 CRT -.1273 CRS .2179 CST -.9955
 LSA 1847.6 MSA 323.9 SSA 11.3
 EL1 1776.9 EL2 321.1 ALF 178.63

LAUNCH DATE FEB 11 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.202 GAL 14.99 AZL 90.96 HCA 307.33 SMA 119.45 ECC .34492 INC .9633 V1 30.173
 RP 107.66 LAP .77 LOP 89.43 VP 36.804 GAP 19.40 AZP 90.58 TAL 146.40 TAP 93.73 RCA 78.25 APO 160.65 V2 35.201
 RC 198.846 GL -3.01 GP -10.76 ZAL 37.09 ZAP 168.93 ETS 259.64 ZAE 128.88 ETE 188.83 ZAC 176.26 ETC 71.46 CLP 177.38

PLANETOCENTRIC CONIC
 C3 65.590 VHL 8.099 DLA 19.59 RAL 106.04 RAD 6569.2 VEL 13.673 PTH 2.50 VHP 12.615 DPA 13.29 RAP 87.42 ECC 2.0795
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 23 3169.77 -26.48 108.62 357.09 79.58 7 9 12 2569.8 -27.65 100.14
 90.00 23 44 17 4492.10 9.32 188.43 345.12 63.14 24 59 9 3892.1 5.64 181.68
 100.00 7 50 2 2867.75 -28.42 86.79 357.48 80.33 8 37 50 2267.8 -29.47 78.14
 100.00 0 57 15 4269.36 11.07 171.13 344.20 62.06 2 8 24 3669.4 7.25 164.43
 110.00 9 24 49 2571.23 -33.39 65.15 358.37 82.22 10 7 40 1971.2 -34.11 55.99
 110.00 1 38 58 4138.64 15.45 158.68 341.66 59.12 2 47 56 3538.6 11.25 152.11

DIFFERENTIAL CORRECTIONS
 TDE-1.1137 TRA 7.3217 TC3-1.1608 BAU 1.0180 SGT 5864.0 SGR 411.0 SG3 122.8 ST 1828.9 SR 310.2 SS 525.3
 RDE .4221 RRA .3736 RC3 -.0197 FAU .00646 RRT .5674 RRF .5547 RTF .9735 CRT -.1699 CRS .2429 CST -.9970
 FDE -.3386 FRA 1.8564 FC3 -.0853 BSP 19496 SGB 5878.4 R23 .0006 R13 .9735 LSA 1903.2 MSA 307.6 SSA 10.8
 BOE 1.1910 BRA 7.3313 BC3 1.1610 FSP -419 SGI 5868.7 SG2 338.1 THA 2.28 EL1 1829.6 EL2 305.6 ALF 178.30

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.170 GAL 16.37 AZL 91.25 HCA 310.56 SMA 119.27 ECC .36269 INC 1.2525 V1 30.173
 RP 107.63 LAP .95 LOP 92.66 VP 36.790 GAP 20.55 AZP 90.81 TAL 145.39 TAP 95.95 RCA 76.01 APO 162.53 V2 35.209
 RC 200.549 GL -3.61 GP -10.59 ZAL 35.84 ZAP 168.79 ETS 253.93 ZAE 128.62 ETE 188.63 ZAC 174.96 ETC 49.83 CLP 176.29

PLANETOCENTRIC CONIC
 C3 75.778 VHL 8.705 DLA 18.85 RAL 107.33 RAD 6569.5 VEL 14.040 PTH 2.56 VHP 13.314 DPA 13.61 RAP 89.57 ECC 2.2471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 40 3173.48 -26.43 108.88 .70 79.46 7 22 34 2573.5 -27.62 100.41
 90.00 23 41 18 4556.53 11.28 192.15 348.36 63.85 24 57 15 3956.5 7.68 185.32
 100.00 8 2 31 2874.11 -28.35 87.24 1.09 80.10 8 50 25 2274.1 -29.42 78.61
 100.00 0 55 5 4331.14 13.02 174.69 347.47 62.85 2 7 16 3731.1 9.28 167.89
 110.00 9 35 42 2582.53 -33.28 66.02 2.01 81.72 10 18 45 1982.5 -34.07 56.87
 110.00 1 38 23 4195.48 17.41 161.93 345.00 60.11 2 48 18 3595.5 13.30 155.22

DIFFERENTIAL CORRECTIONS
 TDE-1.3275 TRA 7.9559 TC3 -.9465 BAU .9589 SGT 5839.0 SGR 391.2 SG3 118.8 ST 1876.5 SR 296.4 SS 544.2
 RDE .4337 RRA .3831 RC3 -.0137 FAU .00480 RRT .5534 RRF .5428 RTF .9764 CRT -.2097 CRS .2677 CST -.9980
 FDE -.3720 FRA 1.9399 FC3 -.0548 BSP 19514 SGB 5852.1 R23 .0009 R13 .9764 LSA 1954.6 MSA 291.0 SSA 10.3
 BOE 1.3965 BRA 7.9651 BC3 .9466 FSP -405 SGI 5843.1 SG2 325.6 THA 2.13 EL1 1877.6 EL2 289.7 ALF 178.06

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.140 GAL 17.89 AZL 91.57 HCA 313.79 SMA 119.11 ECC .38259 INC 1.5710 V1 30.173
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.776 GAP 21.84 AZP 91.09 TAL 144.49 TAP 98.29 RCA 73.54 APO 164.67 V2 35.217
 RC 202.227 GL -4.17 GP -10.43 ZAL 34.75 ZAP 168.50 ETS 248.16 ZAE 128.31 ETE 188.43 ZAC 173.29 ETC 38.33 CLP 175.14

PLANETOCENTRIC CONIC
 C3 88.046 VHL 9.383 DLA 18.16 RAL 108.47 RAD 6569.7 VEL 14.470 PTH 2.63 VHP 14.098 DPA 13.88 RAP 91.67 ECC 2.4490
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 41 29 3180.32 -26.35 109.36 4.17 79.23 7 34 29 2580.3 -27.57 100.91
 90.00 23 38 35 4617.98 13.10 195.74 351.54 64.67 24 55 33 4018.0 9.58 188.83
 100.00 8 13 37 2883.21 -28.24 87.90 4.57 79.77 9 1 40 2283.2 -29.36 79.27
 100.00 0 53 4 4390.33 14.83 178.15 350.68 63.75 2 6 15 3790.3 11.18 171.26
 110.00 9 45 26 2595.91 -33.15 67.04 5.53 81.13 10 28 42 1995.9 -34.02 57.91
 110.00 1 37 44 4250.38 19.24 165.13 348.27 61.19 2 48 35 3650.4 15.25 158.29

DIFFERENTIAL CORRECTIONS
 TDE-1.5515 TRA 8.6457 TC3 -.7517 BAU .8848 SGT 5809.8 SGR 370.2 SG3 114.9 ST 1917.6 SR 282.6 SS 564.5
 RDE .4463 RRA .3892 RC3 -.0085 FAU .00304 RRT .5365 RRF .5280 RTF .9793 CRT -.2455 CRS .2906 CST -.9987
 FDE -.4055 FRA 2.0322 FC3 -.0299 BSP 19505 SGB 5821.6 R23 .0014 R13 .9793 LSA 2000.1 MSA 274.7 SSA 9.8
 BOE 1.6144 BRA 8.6544 BC3 .7517 FSP -392 SGI 5813.2 SG2 312.3 THA 1.96 EL1 1918.9 EL2 273.8 ALF 177.88

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 11 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC
 RL 147.66 LAL .00 LOL 142.09 VL 26.112 GAL 19.58 AZL 91.93 HCA 317.02 SMA 118.95 ECC .40496 INC 1.9262 V1 30.173
 RP 107.58 LAP 1.31 LOP 99.13 VP 36.763 GAP 23.29 AZP 91.41 TAL 143.75 TAP 100.77 RCA 70.78 APO 167.11 V2 35.225
 RC 203.880 GL -4.68 GP -10.28 ZAL 33.80 ZAP 168.07 ETS 242.44 ZAE 127.92 ETE 188.22 ZAC 171.51 ETC 31.79 CLP 173.92

PLANETOCENTRIC CONIC
 C3 102.929 VHL 10.145 DLA 17.52 RAL 109.45 RAD 6570.0 VEL 14.976 PTH 2.70 VHP 14.983 DPA 14.11 RAP 93.71 ECC 2.6939
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 51 51 3189.79 -26.23 110.03 7.48 78.92 7 45 0 2589.8 -27.49 101.59
 90.00 23 36 3 4676.38 14.77 199.22 354.62 65.56 24 53 59 4076.4 11.35 192.21
 100.00 8 23 23 2894.60 -28.10 88.72 7.88 79.36 9 11 37 2294.6 -29.28 80.11
 100.00 0 51 8 4446.80 16.50 181.51 353.78 64.72 2 5 15 3846.8 12.96 174.50
 110.00 9 54 1 2611.04 -32.98 68.19 8.89 80.47 10 37 32 2011.0 -33.95 59.08
 110.00 1 36 59 4303.13 20.94 168.28 351.45 62.35 2 48 42 3703.1 17.07 161.29

DIFFERENTIAL CORRECTIONS
 TDE-1.7874 TRA 9.3991 TC3 -.5754 BAU .7918 SGT 5776.4 SGR 348.2 SG3 111.3 ST 1951.6 SR 269.0 SS 586.8
 RDE .4602 RRA .3909 RC3 -.0042 FAU .00111 RRT .5152 RRF .5090 RTF .9821 CRT -.2788 CRS .3129 CST -.9992
 FDE -.4395 FRA 2.1352 FC3 -.0094 BSP 19470 SGB 5786.9 R23 .0019 R13 .9821 LSA 2039.2 MSA 258.7 SSA 9.2
 BOE 1.8457 BRA 9.4072 BC3 .5754 FSP -379 SGI 5779.2 SG2 298.2 THA 1.78 EL1 1953.1 EL2 258.2 ALF 177.76

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 12 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 23 1969

HELIOCENTRIC CONIC

DISTANCE 179.308

RL 147.69 LAL .00 LOL 143.11 VL 26.024 GAL -5.42 AZL 88.03 MCA 78.59 SMA 118.50 ECC .26282 INC 1.9732 V1 30.168
 RP 108.21 LAP 1.93 LOP 221.69 VP 36.509 GAP -14.42 AZP 89.61 TAL 195.64 TAP 274.23 RCA 87.35 APO 149.64 V2 35.020
 RC 46.944 GL 9.92 GP 11.87 ZAL 122.51 ZAP 11.99 ETS 281.21 ZAE 151.76 ETE 8.97 ZAC 127.90 ETC 153.96 CLP -1.75

PLANETOCENTRIC CONIC

C3 26.806 VHL 5.177 DLA 17.00 RAL 14.60 RAD 6568.1 VEL 12.173 PTH 2.18 VHP 9.537 DPA 23.92 RAP 33.57 ECC 1.4412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 46 2844.63 -28.29 85.09 247.55 91.18 1 22 10 2244.6 -27.83 76.45
 90.00 17 8 34 4370.86 5.53 181.54 239.52 62.18 18 21 25 3770.9 1.76 174.88
 100.00 2 5 50 2550.95 -29.80 63.43 247.50 92.48 2 48 21 1950.9 -29.14 54.69
 100.00 18 20 11 4139.78 6.85 163.83 238.79 60.83 19 29 11 3539.8 2.91 157.26
 110.00 3 35 31 2270.32 -33.72 41.77 247.16 95.99 4 13 22 1670.3 -32.52 32.74
 110.00 19 6 59 3993.16 10.22 150.67 236.75 57.20 20 13 32 3393.2 5.82 144.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2668 TRA -.4127 TC3 .4443 BAU .1624 SGT 725.9 SGR 438.1 SG3 91.4 ST 328.5 SR 401.4 SS 103.6
 RDE -.3602 RRA .1352 RC3 .0893 FAU .03143 RRT .2689 RRF -.3134 RTF -.6780 CRT .8420 CRS .9623 CST .8834
 FDE .1099 FRA .0023 FC3-1.0152 BSP 2056 SGB 847.9 R23 -.0444 R13 -.6901 LSA 508.7 MSA 142.9 SSA 23.9
 BDE .4483 BRA .4343 BC3 .4532 FSP -222 SG1 740.0 SG2 413.9 THA 13.52 EL1 498.6 EL2 142.7 ALF 51.74

LAUNCH DATE FEB 12 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 186.066

RL 147.69 LAL .00 LOL 143.11 VL 26.258 GAL -5.44 AZL 88.21 MCA 81.79 SMA 119.81 ECC .25029 INC 1.7937 V1 30.168
 RP 108.25 LAP 1.78 LOP 224.89 VP 36.664 GAP -13.42 AZP 89.74 TAL 196.81 TAP 278.60 RCA 89.82 APO 149.80 V2 35.007
 RC 48.205 GL 9.44 GP 12.60 ZAL 124.32 ZAP 13.19 ETS 290.36 ZAE 150.14 ETE 10.62 ZAC 128.40 ETC 152.91 CLP -3.95

PLANETOCENTRIC CONIC

C3 24.892 VHL 4.989 DLA 15.86 RAL 13.11 RAD 6568.0 VEL 12.094 PTH 2.16 VHP 8.981 DPA 24.97 RAP 34.26 ECC 1.4097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 42 2784.28 -28.13 80.68 244.13 93.38 1 26 7 2184.3 -27.36 72.10
 90.00 16 51 40 4394.58 6.28 182.88 236.71 62.33 18 4 55 3794.6 2.52 176.21
 100.00 2 9 50 2493.62 -29.55 59.18 244.02 94.70 2 51 24 1893.6 -28.59 50.51
 100.00 18 4 13 4160.47 7.53 164.98 236.03 60.99 19 13 34 3560.5 3.61 158.40
 110.00 3 37 36 2219.04 -33.28 37.83 243.52 98.28 4 14 35 1619.0 -31.78 28.93
 110.00 18 52 57 4007.82 10.76 151.46 234.08 57.36 19 59 45 3407.8 6.38 145.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2574 TRA -.3899 TC3 .5091 BAU .1739 SGT 749.8 SGR 446.4 SG3 102.6 ST 327.3 SR 401.3 SS 89.0
 RDE -.3468 RRA .1370 RC3 .1182 FAU .03406 RRT .3033 RRF -.3544 RTF -.6943 CRT .8446 CRS .9531 CST .8354
 FDE .0947 FRA -.0261 FC3-1.1844 BSP 2162 SGB 872.6 R23 -.0523 R13 -.7085 LSA 505.3 MSA 141.8 SSA 26.0
 BDE .4319 BRA .4133 BC3 .5227 FSP -255 SG1 767.2 SG2 415.7 THA 14.62 EL1 498.2 EL2 141.1 ALF 51.83

LAUNCH DATE FEB 12 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 192.820

RL 147.69 LAL .00 LOL 143.11 VL 26.471 GAL -5.47 AZL 88.38 MCA 84.98 SMA 121.03 ECC .23903 INC 1.6173 V1 30.168
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.803 GAP -12.46 AZP 89.86 TAL 198.02 TAP 283.00 RCA 92.10 APO 149.96 V2 34.994
 RC 49.590 GL 8.86 GP 13.41 ZAL 126.14 ZAP 14.75 ETS 297.98 ZAE 148.69 ETE 12.30 ZAC 128.78 ETC 151.82 CLP -6.21

PLANETOCENTRIC CONIC

C3 23.291 VHL 4.826 DLA 14.64 RAL 11.66 RAD 6567.9 VEL 12.028 PTH 2.15 VHP 8.457 DPA 26.06 RAP 34.86 ECC 1.3833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 45 13 2724.09 -27.81 76.30 240.89 95.55 1 30 37 2124.1 -26.75 67.80
 90.00 16 34 38 4422.18 7.15 184.44 234.12 62.53 17 48 20 3822.2 3.41 177.75
 100.00 2 14 25 2436.40 -29.16 54.98 240.72 96.88 2 55 1 1836.4 -27.90 46.40
 100.00 17 48 6 4185.10 8.34 166.36 233.47 61.19 18 57 51 3585.1 4.44 159.76
 110.00 3 40 15 2167.85 -32.71 33.95 240.08 100.51 4 16 23 1567.8 -30.92 25.19
 110.00 18 38 46 4026.42 11.44 152.47 231.61 57.57 19 45 52 3426.4 7.08 146.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2465 TRA -.3677 TC3 .5744 BAU .1851 SGT 772.4 SGR 456.2 SG3 115.1 ST 322.8 SR 399.6 SS 72.8
 RDE -.3338 RRA .1397 RC3 .1526 FAU .03699 RRT .3413 RRF -.3998 RTF -.7090 CRT .8454 CRS .9156 CST .7376
 FDE .0747 FRA -.0584 FC3-1.3750 BSP 2268 SGB .897.0 R23 -.0613 R13 -.7260 LSA 498.6 MSA 140.7 SSA 28.3
 BDE .4149 BRA .3934 BC3 .5943 FSP -291 SG1 794.2 SG2 417.0 THA 15.88 EL1 494.4 EL2 139.4 ALF 52.13

LAUNCH DATE FEB 12 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 199.567

RL 147.69 LAL .00 LOL 143.11 VL 26.663 GAL -5.50 AZL 88.56 MCA 88.18 SMA 122.17 ECC .22897 INC 1.4428 V1 30.168
 RP 108.33 LAP 1.44 LOP 231.28 VP 36.929 GAP -11.55 AZP 89.95 TAL 199.25 TAP 287.43 RCA 94.20 APO 150.14 V2 34.980
 RC 51.091 GL 8.20 GP 14.31 ZAL 127.94 ZAP 16.63 ETS 304.21 ZAE 147.44 ETE 14.07 ZAC 129.01 ETC 150.68 CLP -8.55

PLANETOCENTRIC CONIC

C3 21.955 VHL 4.686 DLA 13.34 RAL 10.29 RAD 6567.9 VEL 11.972 PTH 2.13 VHP 7.964 DPA 27.21 RAP 35.33 ECC 1.3613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 51 14 2664.43 -27.34 72.00 237.85 97.66 1 35 39 2064.4 -26.00 63.59
 90.00 16 17 39 4453.12 8.12 186.20 231.75 62.78 17 31 52 3853.1 4.40 179.48
 100.00 2 19 33 2379.62 -28.63 50.84 237.63 99.00 2 59 13 1779.6 -27.09 42.38
 100.00 17 32 1 4213.16 9.26 167.94 231.14 61.45 18 42 14 3613.2 5.38 161.31
 110.00 3 43 28 2117.04 -32.02 30.15 236.88 102.66 4 18 45 1517.0 -29.95 21.55
 110.00 18 24 36 4048.51 12.24 153.67 229.36 57.83 19 32 4 3448.5 7.91 147.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2322 TRA -.3445 TC3 .6415 BAU .1966 SGT 793.4 SGR 468.0 SG3 129.3 ST 312.7 SR 395.7 SS 56.7
 RDE -.3206 RRA .1436 RC3 .1933 FAU .04032 RRT .3825 RRF -.4494 RTF -.7250 CRT .8432 CRS .9773 CST .5002
 FDE .0483 FRA -.0956 FC3-1.5901 BSP 2410 SGB 921.1 R23 -.0701 R13 -.7452 LSA 487.0 MSA 139.5 SSA 31.0
 BDE .3958 BRA .3732 BC3 .6700 FSP -335 SG1 820.8 SG2 417.9 THA 17.34 EL1 485.4 EL2 137.1 ALF 52.87

LAUNCH DATE FEB 12 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 1 1969

DISTANCE 206.304

HELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 26.835 GAL -5.54 AZL 88.73 HCA 91.37 SMA 123.22 ECC .22001 INC 1.2690 V1 30.168
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.042 GAP -10.69 AZP 90.03 TAL 200.49 TAP 291.86 RCA 96.11 APO 150.32 V2 34.967
 RC 52.697 GL 7.44 GP 15.31 ZAL 129.69 ZAP 18.76 ETS 309.26 ZAE 146.38 ETE 15.96 ZAC 129.09 ETC 149.52 CLP -10.99

PLANETOCENTRIC CONIC
 C3 20.840 VHL 4.565 DLA 11.99 RAL 9.01 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 7.500 DPA 28.41 RAP 35.68 ECC 1.3430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 57 46 2605.59 -26.74 67.80 235.04 99.68 1 41 12 2005.6 -25.13 59.50
 90.00 16 0 56 4486.87 9.16 188.12 229.63 63.09 17 15 43 3886.9 5.48 181.38
 100.00 2 25 13 2323.56 -27.96 46.81 234.79 101.02 3 3 57 1723.6 -26.16 38.47
 100.00 17 16 10 4244.12 10.26 169.69 229.04 61.77 18 26 54 3644.1 6.41 163.02
 110.00 3 47 16 2066.86 -31.21 26.46 233.93 104.71 4 21 42 1466.9 -28.88 18.03
 110.00 18 10 37 4073.60 13.15 155.05 227.34 58.16 19 18 31 3473.6 8.84 148.60

DIFFERENTIAL CORRECTIONS
 TDE -.2183 TRA -.3245 TC3 .7018 BAU .2067
 RDE -.3072 RRA .1483 RC3 .2402 FAU .04400
 FDE .0163 FRA -.1359 FC3-1.8277 BSP 2502
 BDE .3769 BRA .3567 BC3 .7418 FSP -382

MID-COURSE EXECUTION ACCURACY
 SGT 811.8 SGR 482.7 SG3 145.0
 RRT .4261 RRF -.5026 RTF -.7359
 SGB 944.4 R23 -.0821 R13 -.7605
 SG1 846.5 SG2 418.7 THA 19.05

ORBIT DETERMINATION ACCURACY
 ST 301.7 SR 389.8 SS 48.7
 CRT .8386 CRS .3816 CST .0012
 LSA 474.2 MSA 139.1 SSA 33.9
 EL1 474.1 EL2 135.1 ALF 53.58

LAUNCH DATE FEB 12 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 3 1969

DISTANCE 213.027

HELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 26.990 GAL -5.58 AZL 88.91 HCA 94.56 SMA 124.18 ECC .21206 INC 1.0947 V1 30.168
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.142 GAP -9.86 AZP 90.09 TAL 201.72 TAP 296.27 RCA 97.84 APO 150.51 V2 34.954
 RC 54.398 GL 6.60 GP 16.41 ZAL 131.38 ZAP 21.15 ETS 313.37 ZAE 145.49 ETE 18.01 ZAC 128.99 ETC 148.35 CLP -13.52

PLANETOCENTRIC CONIC
 C3 19.912 VHL 4.462 DLA 10.58 RAL 7.85 RAD 6567.8 VEL 11.887 PTH 2.11 VHP 7.065 DPA 29.67 RAP 35.86 ECC 1.3277
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 4 48 2547.74 -26.01 63.72 232.48 101.60 1 47 16 1947.7 -24.15 55.55
 90.00 15 44 36 4522.97 10.27 190.20 227.76 63.46 16 59 59 3923.0 6.62 183.42
 100.00 2 31 25 2268.40 -27.18 42.89 232.19 102.94 3 9 13 1668.4 -25.13 34.69
 100.00 17 0 40 4277.54 11.33 171.60 227.20 62.15 18 11 58 3677.5 7.52 164.89
 110.00 3 51 37 2017.44 -30.30 22.90 231.26 106.63 4 25 14 1417.4 -27.73 14.65
 110.00 17 56 58 4101.27 14.14 156.59 225.57 58.55 19 5 19 3501.3 9.87 150.08

DIFFERENTIAL CORRECTIONS
 TDE -.2031 TRA -.3058 TC3 .7570 BAU .2162
 RDE -.2932 RRA .1540 RC3 .2944 FAU .04808
 FDE -.0232 FRA -.1804 FC3-2.0903 BSP 2597
 BDE .3566 BRA .3424 BC3 .8122 FSP -435

MID-COURSE EXECUTION ACCURACY
 SGT 827.0 SGR 501.2 SG3 162.5
 RRT .4712 RRF -.5583 RTF -.7449
 SGB 967.0 R23 -.0955 R13 -.7753
 SG1 871.2 SG2 419.6 THA 21.03

ORBIT DETERMINATION ACCURACY
 ST 287.7 SR 381.3 SS 58.0
 CRT .8303 CRS -.1802 CST -.5533
 LSA 459.1 MSA 139.3 SSA 36.9
 EL1 458.7 EL2 133.3 ALF 54.49

LAUNCH DATE FEB 12 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 5 1969

DISTANCE 219.734

HELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 27.129 GAL -5.62 AZL 89.08 HCA 97.74 SMA 125.05 ECC .20505 INC .9192 V1 30.168
 RP 108.45 LAP .91 LOP 240.85 VP 37.231 GAP -9.07 AZP 90.12 TAL 202.92 TAP 300.66 RCA 99.41 APO 150.70 V2 34.942
 RC 56.186 GL 5.68 GP 17.64 ZAL 132.98 ZAP 23.76 ETS 316.76 ZAE 144.78 ETE 20.26 ZAC 128.71 ETC 147.18 CLP -16.18

PLANETOCENTRIC CONIC
 C3 19.142 VHL 4.375 DLA 9.13 RAL 6.80 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 6.659 DPA 31.00 RAP 35.86 ECC 1.3150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 12 20 2490.97 -25.17 59.78 230.18 103.41 1 53 51 1891.0 -23.08 51.73
 90.00 15 28 46 4561.03 11.41 192.41 226.16 63.91 16 44 47 3961.0 7.82 185.58
 100.00 2 38 8 2214.23 -26.30 39.11 229.87 104.74 3 15 2 1614.2 -24.02 31.05
 100.00 16 45 39 4313.00 12.45 173.64 225.62 62.60 17 57 32 3713.0 8.68 166.87
 110.00 3 56 32 1968.88 -29.31 19.47 228.86 108.44 4 29 21 1368.9 -26.51 11.40
 110.00 17 43 44 4131.11 15.19 158.26 224.05 59.00 18 52 35 3531.1 10.97 151.70

DIFFERENTIAL CORRECTIONS
 TDE -.1869 TRA -.2890 TC3 .8047 BAU .2252
 RDE -.2780 RRA .1609 RC3 .3565 FAU .05260
 FDE -.0715 FRA -.2288 FC3-2.3789 BSP 2685
 BDE .3350 BRA .3308 BC3 .8802 FSP -495

MID-COURSE EXECUTION ACCURACY
 SGT 838.3 SGR 524.8 SG3 181.9
 RRT .5159 RRF -.6153 RTF -.7515
 SGB 989.0 R23 -.1107 R13 -.7894
 SG1 894.9 SG2 421.1 THA 23.36

ORBIT DETERMINATION ACCURACY
 ST 271.3 SR 369.8 SS 83.3
 CRT .8170 CRS -.5173 CST -.8168
 LSA 442.7 MSA 140.5 SSA 39.9
 EL1 439.3 EL2 131.7 ALF 55.54

LAUNCH DATE FEB 12 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 7 1969

DISTANCE 226.422

HELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 27.252 GAL -5.66 AZL 89.26 HCA 100.93 SMA 125.85 ECC .19889 INC .7411 V1 30.168
 RP 108.49 LAP .73 LOP 244.03 VP 37.309 GAP -8.32 AZP 90.14 TAL 204.08 TAP 305.00 RCA 100.82 APO 150.88 V2 34.929
 RC 58.031 GL 4.68 GP 18.99 ZAL 134.47 ZAP 26.59 ETS 319.60 ZAE 144.22 ETE 22.77 ZAC 128.20 ETC 146.05 CLP -18.97

PLANETOCENTRIC CONIC
 C3 18.502 VHL 4.301 DLA 7.65 RAL 5.90 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 6.282 DPA 32.40 RAP 35.66 ECC 1.3045
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 20 22 2435.26 -24.24 55.96 228.15 105.10 2 0 57 1835.3 -21.93 48.05
 90.00 15 13 30 4600.75 12.59 194.73 224.82 64.43 16 30 10 4000.8 9.05 187.84
 100.00 2 45 23 2161.04 -25.33 35.46 227.81 106.43 3 21 24 1561.0 -22.83 27.55
 100.00 16 31 9 4350.20 13.61 175.79 224.30 63.13 17 43 40 3750.2 9.89 168.97
 110.00 4 2 2 1921.20 -28.23 16.17 226.74 110.12 4 34 3 1321.2 -25.23 8.28
 110.00 17 31 0 4162.81 16.29 160.05 222.79 59.53 18 40 23 3562.8 12.13 153.43

DIFFERENTIAL CORRECTIONS
 TDE -.1700 TRA -.2743 TC3 .8433 BAU .2339
 RDE -.2613 RRA .1689 RC3 .4274 FAU .05757
 FDE -.1298 FRA -.2809 FC3-2.6938 BSP 2768
 BDE .3117 BRA .3221 BC3 .9454 FSP -562

MID-COURSE EXECUTION ACCURACY
 SGT 844.7 SGR 554.8 SG3 203.4
 RRT .5588 RRF -.6719 RTF -.7557
 SGB 1010.6 R23 -.1266 R13 -.8035
 SG1 917.6 SG2 423.6 THA 26.12

ORBIT DETERMINATION ACCURACY
 ST 253.0 SR 354.8 SS 118.4
 CRT .7969 CRS -.6682 CST -.9095
 LSA 426.2 MSA 142.7 SSA 42.7
 EL1 415.8 EL2 130.4 ALF 56.70

LAUNCH DATE FEB 12 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 233.088

RL 147.69 LAL .00 LOL 143.11 VL 27.361 GAL -5.70 AZL 89.44 HCA 104.11 SMA 126.57 ECC .19349 INC .5591 V1 30.168
 RP 108.53 LAP .54 LOP 247.21 VP 37.378 GAP -7.60 AZP 90.14 TAL 205.18 TAP 309.28 RCA 102.08 APO 151.05 V2 34.917
 RC 59.985 GL 3.59 GP 20.49 ZAL 135.84 ZAP 29.65 ETS 322.04 ZAE 143.79 ETE 25.60 ZAC 127.47 ETC 144.97 CLP -21.91

PLANETOCENTRIC CONIC

C3 17.973 VHL 4.239 DLA 6.14 RAL 5.13 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 5.934 DPA 33.87 RAP 35.21 ECC 1.2958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 28 57 2380.51 -23.22 52.27 226.39 106.68 2 8 38 1780.5 -20.71 44.50
 90.00 14 58 49 4641.93 13.79 197.16 223.74 65.02 16 16 10 4041.9 10.31 190.21
 100.00 2 53 12 2108.75 -24.27 31.93 226.03 108.00 3 28 21 1508.8 -21.59 24.16
 100.00 16 17 14 4388.91 14.79 178.06 223.25 63.72 17 30 23 3788.9 11.14 171.17
 110.00 4 8 7 1874.31 -27.09 13.00 224.90 111.69 4 39 21 1274.3 -23.91 5.29
 110.00 17 18 49 4196.12 17.43 161.96 221.78 60.12 18 28 45 3596.1 13.33 155.26

DIFFERENTIAL CORRECTIONS

TDE -.1511 TRA -.2606 TC3 .8741 BAU .2430
 RDE -.2420 RRA .1783 RC3 .5086 FAU .06305
 FDE -.2013 FRA -.3374 FC3-3.0372 BSP 2887
 BOE .2853 BRA .3158 BC3 1.0113 FSP -639

MID-COURSE EXECUTION ACCURACY

SGT 846.4 SGR 593.1 SG3 227.2
 RRT .5987 RRF -.7263 RTF -.7595
 SGB 1033.5 R23 -.1405 R13 -.8198
 SG1 941.1 SG2 427.2 THA 29.38

ORBIT DETERMINATION ACCURACY

ST 231.2 SR 335.3 SS 161.3
 CRT .7653 CRS -.7395 CST -.9412
 LSA 410.6 MSA 145.8 SSA 45.2
 EL1 386.3 EL2 129.2 ALF 58.21

LAUNCH DATE FEB 12 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 239.731

RL 147.69 LAL .00 LOL 143.11 VL 27.458 GAL -5.73 AZL 89.63 HCA 107.29 SMA 127.21 ECC .18879 INC .3720 V1 30.168
 RP 108.57 LAP .36 LOP 250.39 VP 37.437 GAP -6.91 AZP 90.11 TAL 206.20 TAP 313.49 RCA 103.19 APO 151.22 V2 34.906
 RC 61.981 GL 2.43 GP 22.15 ZAL 137.08 ZAP 32.94 ETS 324.18 ZAE 143.46 ETE 28.78 ZAC 126.49 ETC 143.97 CLP -25.03

PLANETOCENTRIC CONIC

C3 17.536 VHL 4.188 DLA 4.60 RAL 4.52 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 5.615 DPA 35.41 RAP 34.49 ECC 1.2886
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 38 8 2326.57 -22.12 48.70 224.89 108.14 2 16 54 1726.6 -19.43 41.06
 90.00 14 44 43 4684.42 15.00 199.70 222.92 65.70 16 2 48 4084.4 11.59 192.68
 100.00 3 1 38 2057.22 -23.15 28.52 224.51 109.46 3 35 55 1457.2 -20.28 20.89
 100.00 16 3 54 4429.00 15.98 180.44 222.45 64.40 17 17 43 3829.0 12.40 173.48
 110.00 4 14 50 1828.12 -25.89 9.94 223.33 113.14 4 45 18 1228.1 -22.54 2.40
 110.00 17 7 11 4230.87 18.60 163.98 221.03 60.79 18 17 42 3630.9 14.56 157.19

DIFFERENTIAL CORRECTIONS

TDE -.1342 TRA -.2518 TC3 .8872 BAU .2511
 RDE -.2202 RRA .1886 RC3 .5998 FAU .06886
 FDE -.2839 FRA -.3939 FC3-3.3994 BSP 2966
 BOE .2579 BRA .3146 BC3 1.0709 FSP -720

MID-COURSE EXECUTION ACCURACY

SGT 839.8 SGR 640.4 SG3 252.6
 RRT .6305 RRF -.7760 RTF -.7564
 SGB 1056.1 R23 -.1556 R13 -.8345
 SG1 963.1 SG2 433.4 THA 33.24

ORBIT DETERMINATION ACCURACY

ST 212.0 SR 311.5 SS 208.4
 CRT .7207 CRS -.7709 CST -.9468
 LSA 401.0 MSA 149.7 SSA 46.9
 EL1 353.9 EL2 129.4 ALF 59.35

LAUNCH DATE FEB 12 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 246.350

RL 147.69 LAL .00 LOL 143.11 VL 27.542 GAL -5.76 AZL 89.82 HCA 110.46 SMA 127.77 ECC .18469 INC .1785 V1 30.168
 RP 108.60 LAP .17 LOP 253.57 VP 37.489 GAP -6.25 AZP 90.06 TAL 207.14 TAP 317.61 RCA 104.17 APO 151.37 V2 34.894
 RC 64.032 GL 1.18 GP 23.96 ZAL 138.16 ZAP 36.45 ETS 326.14 ZAE 143.18 ETE 32.37 ZAC 125.25 ETC 143.09 CLP -28.33

PLANETOCENTRIC CONIC

C3 17.177 VHL 4.144 DLA 3.05 RAL 4.05 RAD 6567.7 VEL 11.771 PTH 2.08 VHP 5.326 DPA 37.03 RAP 33.46 ECC 1.2827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 57 2273.17 -20.95 45.23 223.65 109.50 2 25 50 1673.2 -18.10 37.71
 90.00 14 31 12 4728.24 16.21 202.35 222.37 66.46 15 50 0 4128.2 12.89 195.24
 100.00 3 10 43 2006.21 -21.95 25.20 223.26 110.82 3 44 9 1406.2 -18.92 17.71
 100.00 15 51 7 4470.43 17.18 182.93 221.91 65.16 17 5 38 3870.4 13.69 175.88
 110.00 4 22 13 1782.41 -24.64 6.99 222.04 114.48 4 51 56 1182.4 -21.12 359.60
 110.00 16 56 6 4267.00 19.79 166.11 220.53 61.54 18 7 13 3667.0 15.83 159.22

DIFFERENTIAL CORRECTIONS

TDE -.1184 TRA -.2466 TC3 .8839 BAU .2592
 RDE -.1950 RRA .1997 RC3 .7020 FAU .07495
 FDE -.3792 FRA -.4498 FC3-3.7775 BSP 3039
 BOE .2282 BRA .3174 BC3 1.1288 FSP -805

MID-COURSE EXECUTION ACCURACY

SGT 824.8 SGR 698.4 SG3 279.5
 RRT .6529 RRF -.8200 RTF -.7480
 SGB 1080.7 R23 -.1674 R13 -.8504
 SG1 986.0 SG2 442.5 THA 37.82

ORBIT DETERMINATION ACCURACY

ST 194.4 SR 282.7 SS 259.7
 CRT .6559 CRS -.7787 CST -.9380
 LSA 399.3 MSA 153.0 SSA 47.7
 EL1 317.1 EL2 130.8 ALF 60.15

LAUNCH DATE FEB 12 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 252.943

RL 147.69 LAL .00 LOL 143.11 VL 27.615 GAL -5.78 AZL 90.02 HCA 113.64 SMA 128.27 ECC .18115 INC .0198 V1 30.168
 RP 108.64 LAP -.02 LOP 256.74 VP 37.532 GAP -5.62 AZP 89.99 TAL 207.99 TAP 321.63 RCA 105.04 APO 151.51 V2 34.883
 RC 66.131 GL -.15 GP 25.95 ZAL 139.09 ZAP 40.19 ETS 327.99 ZAE 142.90 ETE 36.42 ZAC 123.74 ETC 142.35 CLP -31.83

PLANETOCENTRIC CONIC

C3 16.884 VHL 4.109 DLA 1.46 RAL 3.75 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 5.067 DPA 38.72 RAP 32.07 ECC 1.2779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 58 31 2219.99 -19.70 41.82 222.68 110.76 2 35 31 1620.0 -16.70 34.43
 90.00 14 18 12 4773.51 17.42 205.12 222.06 67.31 15 37 45 4173.5 14.19 197.92
 100.00 3 20 32 1955.42 -20.69 21.96 222.26 112.07 3 53 8 1355.4 -17.51 14.60
 100.00 15 38 51 4513.30 18.39 185.54 221.62 66.01 16 54 5 3913.3 14.99 178.40
 110.00 4 30 20 1736.93 -23.32 4.11 221.00 115.73 4 59 17 1136.9 -19.67 356.88
 110.00 16 45 33 4304.56 20.99 168.36 220.29 62.38 17 57 17 3704.6 17.12 161.37

DIFFERENTIAL CORRECTIONS

TDE -.1039 TRA -.2451 TC3 .8636 BAU .2683
 RDE -.1653 RRA .2117 RC3 .8165 FAU .08127
 FDE -.4902 FRA -.5035 FC3-4.1669 BSP 3132
 BOE .1952 BRA .3239 BC3 1.1885 FSP -897

MID-COURSE EXECUTION ACCURACY

SGT 801.0 SGR 768.5 SG3 307.7
 RRT .6638 RRF -.8576 RTF -.7330
 SGB 1110.1 R23 -.1723 R13 -.8682
 SG1 1012.7 SG2 454.6 THA 43.21

ORBIT DETERMINATION ACCURACY

ST 178.7 SR 247.8 SS 316.4
 CRT .5582 CRS -.7642 CST -.9168
 LSA 409.1 MSA 154.2 SSA 47.7
 EL1 274.7 EL2 133.8 ALF 60.39

LAUNCH DATE FEB 12 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 259.509
 RL 147.69 LAL .00 LOL 143.11 VL 27.678 GAL -5.79 AZL 90.23 HCA 116.81 SMA 128.71 ECC .17809 INC .2331 V1 30.168
 RP 108.67 LAP -.21 LOP 259.92 VP 37.569 GAP -5.02 AZP 89.89 TAL 208.73 TAP 325.54 RCA 105.79 APO 151.63 V2 34.873
 RC 68.274 GL -1.58 GP 28.11 ZAL 139.84 ZAP 44.15 ETS 329.83 ZAE 142.57 ETE 40.95 ZAC 121.95 ETC 141.80 CLP -35.56

PLANETOCENTRIC CONIC

C3 16.650 VHL 4.080 OLA -.16 RAL 3.60 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 4.840 DPA 40.46 RAP 30.30 ECC 1.2740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 9 55 2166.62 -18.38 38.47 221.96 111.93 2 46 2 1566.6 -15.24 31.20
 90.00 14 5 37 4820.45 18.62 208.03 222.02 68.28 15 25 57 4220.4 15.51 200.74
 100.00 3 31 11 1904.47 -19.35 18.76 221.53 113.24 4 2 56 1304.5 -16.04 11.53
 100.00 15 27 2 4557.83 19.60 188.30 221.60 66.97 16 42 59 3957.8 16.31 181.04
 110.00 4 39 16 1691.38 -21.95 1.29 220.23 116.89 5 7 27 1091.4 -18.17 354.20
 110.00 16 35 26 4343.68 22.20 170.75 220.31 63.32 17 47 50 3743.7 18.44 163.63

DIFFERENTIAL CORRECTIONS

TDE -.0907 TRA -.2466 TC3 .8258 BAU .2792 SGT 768.3 SGR 852.3 SG3 336.8 ST 165.6 SR 206.7 SS 378.7
 RDE -.1299 RRA .2246 RC3 .9442 FAU .08767 RRT .6617 RRF -.8889 RTF -.7102 CRT .4050 CRS -.7135 CST -.8838
 FDE -.6180 FRA -.5540 FC3-4.5585 BSP 3274 SGB 1147.5 R23 -.1658 R13 -.8884 LSA 433.6 MSA 152.8 SSA 46.5
 BDE .1584 BRA .3336 BC3 1.2544 FSP -997 SG1 1047.4 SG2 468.8 THA 49.46 EL1 225.7 EL2 138.7 ALF 59.45

LAUNCH DATE FEB 12 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 266.048
 RL 147.69 LAL .00 LOL 143.11 VL 27.732 GAL -5.80 AZL 90.46 HCA 119.98 SMA 129.08 ECC .17545 INC .4567 V1 30.168
 RP 108.70 LAP -.40 LOP 263.09 VP 37.599 GAP -4.44 AZP 89.77 TAL 209.37 TAP 329.35 RCA 106.43 APO 151.73 V2 34.862
 RC 70.456 GL -3.11 GP 30.43 ZAL 140.41 ZAP 48.32 ETS 331.71 ZAE 142.11 ETE 45.96 ZAC 119.89 ETC 141.46 CLP -39.53

PLANETOCENTRIC CONIC

C3 16.467 VHL 4.058 OLA -1.82 RAL 3.61 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 4.646 DPA 42.23 RAP 28.10 ECC 1.2710
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 18 2112.59 -16.97 35.13 221.49 113.01 2 57 30 1512.6 -13.71 27.97
 90.00 13 53 21 4869.42 19.83 211.12 222.24 69.36 15 14 31 4269.4 16.84 203.72
 100.00 3 42 48 1852.93 -17.93 15.59 221.05 114.32 4 13 41 1252.9 -14.50 8.48
 100.00 15 15 33 4604.31 20.81 191.22 221.83 68.04 16 32 17 4004.3 17.65 183.85
 110.00 4 49 6 1645.39 -20.51 358.50 219.71 117.97 5 16 31 1045.4 -16.61 351.55
 110.00 16 25 44 4384.63 23.43 173.29 220.59 64.37 17 38 48 3784.6 19.79 166.05

DIFFERENTIAL CORRECTIONS

TDE -.0829 TRA -.2542 TC3 .7615 BAU .2913 SGT 724.3 SGR 948.1 SG3 364.7 ST 160.2 SR 162.6 SS 443.2
 RDE -.0887 RRA .2367 RC3 1.0822 FAU .09367 RRT .6369 RRF -.9137 RTF -.6688 CRT .1667 CRS -.5875 CST -.8476
 FDE -.7568 FRA -.5921 FC3-4.9248 BSP 3403 SGB 1193.1 R23 -.1498 R13 -.9083 LSA 473.6 MSA 149.1 SSA 44.6
 BDE .1214 BRA .3474 BC3 1.3232 FSP -1089 SG1 1089.7 SG2 485.8 THA 56.58 EL1 174.4 EL2 147.3 ALF 47.55

LAUNCH DATE FEB 12 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 272.558
 RL 147.69 LAL .00 LOL 143.11 VL 27.777 GAL -5.80 AZL 90.69 HCA 123.15 SMA 129.40 ECC .17318 INC .6945 V1 30.168
 RP 108.73 LAP -.58 LOP 266.26 VP 37.624 GAP -3.89 AZP 89.62 TAL 209.89 TAP 333.04 RCA 106.99 APO 151.80 V2 34.853
 RC 72.672 GL -4.76 GP 32.92 ZAL 140.79 ZAP 52.67 ETS 333.71 ZAE 141.45 ETE 51.42 ZAC 117.57 ETC 141.37 CLP -43.76

PLANETOCENTRIC CONIC

C3 16.334 VHL 4.041 OLA -3.54 RAL 3.80 RAD 6567.7 VEL 11.735 PTH 2.07 VHP 4.487 DPA 44.03 RAP 25.45 ECC 1.2688
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 35 49 2057.34 -15.47 31.76 221.29 114.02 3 10 7 1457.3 -12.09 24.71
 90.00 13 41 17 4920.97 21.03 214.42 222.73 70.59 15 3 18 4321.0 18.18 206.90
 100.00 3 55 31 1800.27 -16.43 12.40 220.83 115.33 4 25 31 1200.3 -12.88 5.41
 100.00 15 4 17 4653.26 22.02 194.35 222.34 69.26 16 21 50 4053.3 19.01 186.85
 110.00 4 59 58 1598.51 -18.98 355.71 219.45 118.97 5 26 36 998.5 -14.98 348.89
 110.00 16 16 19 4427.79 24.68 176.03 221.14 65.56 17 30 7 3827.8 21.17 168.64

DIFFERENTIAL CORRECTIONS

TDE -.0790 TRA -.2650 TC3 .6761 BAU .3069 SGT 672.9 SGR 1058.0 SG3 391.3 ST 159.9 SR 123.5 SS 513.0
 RDE -.0396 RRA .2484 RC3 1.2320 FAU .09923 RRT .5867 RRF -.9332 RTF -.6061 CRT -.2616 CRS -.2491 CST -.8144
 FDE -.9101 FRA -.6200 FC3-5.2594 BSP 3610 SGB 1253.9 R23 -.1212 R13 -.9281 LSA 530.4 MSA 144.4 SSA 41.9
 BDE .0884 BRA .3632 BC3 1.4053 FSP -1184 SG1 1149.1 SG2 501.8 THA 64.29 EL1 166.5 EL2 114.5 ALF 157.47

LAUNCH DATE FEB 12 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 279.041
 RL 147.69 LAL .00 LOL 143.11 VL 27.814 GAL -5.79 AZL 90.95 HCA 126.31 SMA 129.66 ECC .17125 INC .9503 V1 30.168
 RP 108.76 LAP -.77 LOP 269.42 VP 37.642 GAP -3.36 AZP 89.44 TAL 210.30 TAP 336.62 RCA 107.45 APO 151.86 V2 34.844
 RC 74.919 GL -6.54 GP 35.54 ZAL 140.96 ZAP 57.18 ETS 335.90 ZAE 140.51 ETE 57.24 ZAC 115.01 ETC 141.54 CLP -48.24

PLANETOCENTRIC CONIC

C3 16.250 VHL 4.031 OLA -5.33 RAL 4.15 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 4.363 DPA 45.80 RAP 22.32 ECC 1.2674
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 42 2000.17 -13.86 28.34 221.36 114.94 3 24 3 1400.2 -10.38 21.39
 90.00 13 29 14 4975.77 22.23 218.00 223.52 71.99 14 52 10 4375.8 19.56 210.34
 100.00 4 9 32 1745.88 -14.82 9.17 220.88 116.26 4 38 38 1145.9 -11.17 2.28
 100.00 14 53 6 4705.30 23.24 197.73 223.15 70.65 16 11 31 4105.3 20.39 190.10
 110.00 5 12 1 1550.25 -17.37 352.90 219.47 119.91 5 37 51 950.3 -13.26 346.20
 110.00 16 7 6 4473.69 25.94 179.00 221.99 66.91 17 21 40 3873.7 22.58 171.45

DIFFERENTIAL CORRECTIONS

TDE -.0837 TRA -.2817 TC3 .5606 BAU .3250 SGT 616.6 SGR 1177.1 SG3 413.6 ST 169.9 SR 117.5 SS 583.3
 RDE .0169 RRA .2570 RC3 1.3869 FAU .10364 RRT .4891 RRF -.9480 RTF -.4987 CRT -.7848 CRS .3870 CST -.8026
 FDE -1.0680 FRA -.6261 FC3-5.5217 BSP 3831 SGB 1328.8 R23 -.0862 R13 -.9449 LSA 601.6 MSA 139.8 SSA 38.6
 BDE .0853 BRA .3814 BC3 1.4959 FSP -1261 SG1 1224.0 SG2 517.2 THA 72.39 EL1 196.8 EL2 62.9 ALF 147.83

LAUNCH DATE FEB 12 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 285.495

RL 147.69 LAL .00 LOL 143.11 VL 27.844 GAL -5.77 AZL 91.23 HCA 129.48 SMA 129.87 ECC .16959 INC 1.2273 V1 30.168
 RP 108.78 LAP -.95 LOP 272.59 VP 37.657 GAP -2.85 AZP 89.22 TAL 210.60 TAP 340.08 RCA 107.84 APO 151.89 V2 34.835
 RC 77.194 GL -8.47 GP 38.27 ZAL 140.90 ZAP 61.79 ETS 338.33 ZAE 139.25 ETE 63.31 ZAC 112.26 ETC 141.99 CLP -52.98

PLANETOCENTRIC CONIC

C3 16.219 VHL 4.027 DLA -7.21 RAL 4.69 RAD 6567.7 VEL 11.730 PTH 2.07 VHP 4.278 DPA 47.53 RAP 18.73 ECC 1.2669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 14 1940.29 -12.11 24.81 221.72 115.79 3 39 34 1340.3 -8.54 17.95
 90.00 13 17 0 5034.79 23.42 221.91 224.61 73.61 14 40 55 4434.8 20.95 214.11
 100.00 4 25 8 1689.01 -13.08 5.84 221.23 117.12 4 53 17 1089.0 -9.34 359.05
 100.00 14 41 47 4761.30 24.45 201.45 224.26 72.25 16 1 9 4161.3 21.79 193.66
 110.00 5 25 29 1500.02 -15.64 350.04 219.77 120.79 5 50 29 900.0 -11.44 343.45
 110.00 15 57 55 4523.05 27.21 182.27 223.17 68.47 17 13 18 3923.0 24.04 174.54

DIFFERENTIAL CORRECTIONS

TDE -.0972 TRA -.3023 TC3 .4179 BAU .3467
 RDE .0824 RRA .2618 RC3 1.5436 FAU .10664
 FDE-1.2287 FRA -.6107 FC3-5.6924 BSP 4108
 BDE .1274 BRA .3999 BC3 1.5992 FSP -1321

MID-COURSE EXECUTION ACCURACY

SGT 566.1 SGR 1304.0 SG3 430.6
 RRT .3245 RRF -.9591 RTF -.3267
 SGB 1421.6 R23 -.0483 R13 -.9580
 SG1 1319.4 SG2 529.2 THA 80.43

ORBIT DETERMINATION ACCURACY

ST 190.1 SR 166.8 SS 655.3
 CRT -.9614 CRS .8102 CST -.8145
 LSA 688.2 MSA 136.4 SSA 34.9
 EL1 250.5 EL2 34.9 ALF 138.90

LAUNCH DATE FEB 12 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 291.921

RL 147.69 LAL .00 LOL 143.11 VL 27.867 GAL -5.75 AZL 91.53 HCA 132.64 SMA 130.03 ECC .16819 INC 1.5308 V1 30.168
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.666 GAP -2.37 AZP 88.96 TAL 210.79 TAP 343.43 RCA 108.16 APO 151.90 V2 34.827
 RC 79.493 GL -10.59 GP 41.10 ZAL 140.60 ZAP 66.44 ETS 341.05 ZAE 137.63 ETE 69.50 ZAC 109.35 ETC 142.73 CLP -57.96

PLANETOCENTRIC CONIC

C3 16.250 VHL 4.031 DLA -9.20 RAL 5.42 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 4.233 DPA 49.18 RAP 14.69 ECC 1.2674
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 25 47 1876.67 -10.20 21.12 222.41 116.56 3 57 3 1276.7 -6.55 14.34
 90.00 13 4 16 5099.28 24.59 226.28 226.05 75.49 14 29 16 4499.3 22.35 218.32
 100.00 4 42 37 1628.77 -11.18 2.37 221.90 117.90 5 9 46 1028.8 -7.36 355.67
 100.00 14 30 7 4822.41 25.66 205.59 225.73 74.11 15 50 29 4222.4 23.23 197.64
 110.00 5 40 37 1447.14 -13.78 347.07 220.38 121.60 6 4 45 847.1 -9.50 340.59
 110.00 15 48 36 4576.80 28.50 185.92 224.71 70.28 17 4 53 3976.8 25.55 177.99

DIFFERENTIAL CORRECTIONS

TDE -.1211 TRA -.3247 TC3 .2519 BAU .3732
 RDE .1590 RRA .2624 RC3 1.6994 FAU .10814
 FDE-1.3908 FRA -.5759 FC3-5.7614 BSP 4490
 BDE .1998 BRA .4175 BC3 1.7180 FSP -1371

MID-COURSE EXECUTION ACCURACY

SGT 538.0 SGR 1439.1 SG3 442.0
 RRT .0810 RRF -.9677 RTF -.0782
 SGB 1536.3 R23 -.0128 R13 -.9676
 SG1 1439.8 SG2 535.9 THA 87.99

ORBIT DETERMINATION ACCURACY

ST 222.1 SR 256.1 SS 730.4
 CRT -.9587 CRS .9395 CST -.8437
 LSA 793.4 MSA 134.2 SSA 30.8
 EL1 335.5 EL2 48.2 ALF 130.76

LAUNCH DATE FEB 12 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 298.318

RL 147.69 LAL .00 LOL 143.11 VL 27.884 GAL -5.71 AZL 91.87 HCA 135.80 SMA 130.15 ECC .16700 INC 1.8666 V1 30.168
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.672 GAP -1.90 AZP 88.66 TAL 210.87 TAP 346.66 RCA 108.41 APO 151.88 V2 34.820
 RC 81.813 GL -12.91 GP 43.97 ZAL 140.04 ZAP 71.05 ETS 344.10 ZAE 135.63 ETE 75.66 ZAC 106.35 ETC 143.75 CLP -63.17

PLANETOCENTRIC CONIC

C3 16.356 VHL 4.044 DLA -11.33 RAL 6.36 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 4.230 DPA 50.72 RAP 10.26 ECC 1.2692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 51 1808.03 -8.08 17.18 223.47 117.23 4 16 59 1208.0 -4.37 10.47
 90.00 12 50 42 5170.90 25.72 231.22 227.89 77.72 14 16 53 4570.9 23.77 223.09
 100.00 5 2 29 1564.02 -9.09 358.70 222.93 118.60 5 28 33 964.0 -5.21 352.07
 100.00 14 17 45 4890.14 26.83 210.28 227.61 76.31 15 39 15 4290.1 24.68 202.14
 110.00 5 57 48 1390.78 -11.74 343.97 221.34 122.34 6 20 59 790.8 -7.39 337.58
 110.00 15 38 56 4636.14 29.79 190.05 226.66 72.41 16 56 12 4036.1 27.10 181.90

DIFFERENTIAL CORRECTIONS

TDE -.1604 TRA -.3497 TC3 .0587 BAU .4024
 RDE .2447 RRA .2541 RC3 1.8391 FAU .10740
 FDE-1.5380 FRA -.5114 FC3-5.6846 BSP 4895
 BDE .2926 BRA .4323 BC3 1.8401 FSP -1384

MID-COURSE EXECUTION ACCURACY

SGT 556.0 SGR 1571.0 SG3 444.2
 RRT -.2217 RRF -.9739 RTF .2274
 SGB 1666.5 R23 .0179 R13 -.9738
 SG1 1576.4 SG2 540.3 THA 95.09

ORBIT DETERMINATION ACCURACY

ST 273.1 SR 366.5 SS 802.1
 CRT -.9531 CRS .9773 CST -.8817
 LSA 913.1 MSA 133.6 SSA 26.7
 EL1 452.1 EL2 67.0 ALF 126.31

LAUNCH DATE FEB 12 1969

FLIGHT TIME 108.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 304.688

RL 147.69 LAL .00 LOL 143.11 VL 27.895 GAL -5.67 AZL 92.24 HCA 138.96 SMA 130.23 ECC .16600 INC 2.2425 V1 30.168
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.674 GAP -1.45 AZP 88.31 TAL 210.84 TAP 349.79 RCA 108.61 APO 151.84 V2 34.813
 RC 84.153 GL -15.48 GP 46.88 ZAL 139.17 ZAP 75.53 ETS 347.50 ZAE 133.27 ETE 81.67 ZAC 103.30 ETC 145.04 CLP -68.56

PLANETOCENTRIC CONIC

C3 16.562 VHL 4.070 DLA -13.63 RAL 7.53 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 4.274 DPA 52.14 RAP 5.48 ECC 1.2726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 8 1732.63 -5.71 12.91 224.98 117.78 4 40 1 1132.6 -1.95 6.25
 90.00 12 35 44 5252.01 26.77 236.92 230.19 80.40 14 3 16 4652.0 25.17 228.62
 100.00 5 25 19 1493.30 -6.77 354.74 224.40 119.19 5 50 12 893.3 -2.83 348.17
 100.00 14 4 15 4966.57 27.95 215.69 229.94 78.94 15 27 1 4366.6 26.14 207.35
 110.00 6 17 28 1329.94 -9.51 340.68 222.73 122.99 6 39 38 729.9 -5.10 334.37
 110.00 15 28 35 4702.69 31.07 194.82 229.11 74.97 16 46 57 4102.7 28.69 186.42

DIFFERENTIAL CORRECTIONS

TDE -.2169 TRA -.3738 TC3 -.1529 BAU .4344
 RDE .3417 RRA .2364 RC3 1.9559 FAU .10451
 FDE-1.6695 FRA -.4240 FC3-5.4630 BSP 5357
 BDE .4047 BRA .4423 BC3 1.9618 FSP -1369

MID-COURSE EXECUTION ACCURACY

SGT 634.1 SGR 1697.9 SG3 437.8
 RRT -.4927 RRF -.9787 RTF .4992
 SGB 1812.4 R23 .0432 R13 -.9779
 SG1 1729.6 SG2 541.6 THA 101.58

ORBIT DETERMINATION ACCURACY

ST 345.9 SR 494.2 SS 871.9
 CRT -.9580 CRS .9905 CST -.9159
 LSA 1051.5 MSA 134.4 SSA 22.8
 EL1 597.7 EL2 82.1 ALF 124.59

LAUNCH DATE FEB 12 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 311.030

RL 147.69 LAL .00 LOL 143.11 VL 27.901 GAL -5.61 AZL 92.67 MCA 142.11 SMA 130.27 ECC .16517 INC 2.6692 V1 30.168
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.672 GAP -1.02 AZP 87.89 TAL 210.70 TAP 352.81 RCA 108.75 APO 151.78 V2 34.807
 RC 86.508 GL -18.33 GP 49.79 ZAL 137.98 ZAP 79.81 ETS 351.26 ZAE 130.58 ETE 87.44 ZAC 100.27 ETC 146.57 CLP -74.10

PLANETOCENTRIC CONIC

C3 16.901 VHL 4.111 CLA -16.14 RAL 8.96 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 4.367 OPA 53.45 RAP .45 ECC 1.2781
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 39 42 1647.96 -3.00 8.16 227.03 118.17 5 7 10 1048.0 .79 1.53
 90.00 12 18 34 5346.00 27.66 243.66 233.01 83.66 13 47 40 4746.0 26.49 235.18
 100.00 5 52 2 1414.56 -4.13 350.38 226.41 119.63 6 15 37 814.6 -.16 343.85
 100.00 13 48 55 5054.62 28.94 222.04 232.83 82.15 15 13 9 4454.6 27.55 213.52
 110.00 6 40 19 1263.34 -7.02 337.13 224.62 123.54 7 1 22 663.3 -2.56 330.88
 110.00 15 17 8 4778.61 32.27 200.41 232.15 78.07 16 36 46 4178.6 30.29 191.75

DIFFERENTIAL CORRECTIONS

TOE -.2941 TRA -.3938 TC3 -.3738 BAU .4689
 RDE .4518 RRA .2083 RC3 2.0412 FAU .09964
 FDE-1.7827 FRA -.3204 FC3-5.1037 BSP 5894
 BDE .5391 BRA .4455 BC3 2.0751 FSP -1334

MID-COURSE EXECUTION ACCURACY

SGT 767.5 SGR 1817.8 SG3 423.3
 RRT -.6785 RRF -.9823 RTF .6846
 SGB 1973.2 R23 .0630 R13 -.9806
 SG1 1897.9 SG2 540.0 THA 107.44

ORBIT DETERMINATION ACCURACY

ST 444.4 SR 638.2 SS 940.2
 CRT -.9666 CRS .9958 CST -.9424
 LSA 1212.4 MSA 136.2 SSA 19.2
 EL1 772.0 EL2 94.2 ALF 124.53

LAUNCH DATE FEB 12 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 317.344

RL 147.69 LAL .00 LOL 143.11 VL 27.902 GAL -5.55 AZL 93.16 MCA 145.26 SMA 130.28 ECC .16449 INC 3.1607 V1 30.168
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.668 GAP -.60 AZP 87.40 TAL 210.47 TAP 355.73 RCA 108.85 APO 151.70 V2 34.802
 RC 88.877 GL -21.52 GP 52.72 ZAL 136.41 ZAP 83.80 ETS 355.36 ZAE 127.60 ETE 92.91 ZAC 97.30 ETC 148.31 CLP -79.73

PLANETOCENTRIC CONIC

C3 17.428 VHL 4.175 CLA -18.89 RAL 10.68 RAD 6567.7 VEL 11.782 PTH 2.08 VHP 4.518 OPA 54.67 RAP 355.20 ECC 1.2868
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 15 1549.89 .16 2.69 229.81 118.32 5 40 5 949.9 3.94 356.05
 90.00 11 57 47 5458.25 28.23 251.82 236.43 87.71 13 28 46 4858.2 27.62 243.20
 100.00 6 24 3 1324.63 -1.09 345.43 229.11 119.87 6 46 8 724.6 2.89 338.91
 100.00 13 30 40 5158.74 29.66 229.70 236.34 86.11 14 56 39 4558.7 28.81 221.00
 110.00 7 7 16 1189.25 -4.22 333.22 227.17 123.95 7 27 5 589.2 .27 327.01
 110.00 15 3 57 4866.88 33.32 207.08 235.89 81.89 16 25 4 4266.9 31.84 198.16

DIFFERENTIAL CORRECTIONS

TOE -.3980 TRA -.4074 TC3 -.5953 BAU .5034
 RDE .5734 RRA .1653 RC3 2.0771 FAU .09263
 FDE-1.8660 FRA -.1987 FC3-4.6014 BSP 6435
 BDE .6980 BRA .4396 BC3 2.1607 FSP -1264

MID-COURSE EXECUTION ACCURACY

SGT 945.9 SGR 1919.5 SG3 399.7
 RRT -.7896 RRF -.9851 RTF .7950
 SGB 2139.9 R23 .0795 R13 -.9823
 SG1 2071.2 SG2 537.9 THA 112.89

ORBIT DETERMINATION ACCURACY

ST 574.5 SR 791.9 SS 1001.2
 CRT -.9746 CRS .9981 CST -.9609
 LSA 1392.9 MSA 139.2 SSA 15.9
 EL1 972.8 EL2 104.8 ALF 125.74

LAUNCH DATE FEB 12 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 323.631

RL 147.69 LAL .00 LOL 143.11 VL 27.898 GAL -5.48 AZL 93.74 MCA 148.41 SMA 130.25 ECC .16393 INC 3.7368 V1 30.168
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.661 GAP -.20 AZP 86.82 TAL 210.14 TAP 358.55 RCA 108.90 APO 151.60 V2 34.797
 RC 91.256 GL -25.08 GP 55.68 ZAL 134.42 ZAP 87.41 ETS 359.82 ZAE 124.37 ETE 98.07 ZAC 94.42 ETC 150.23 CLP -85.41

PLANETOCENTRIC CONIC

C3 18.228 VHL 4.269 CLA -21.91 RAL 12.76 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 4.734 OPA 55.83 RAP 349.77 ECC 1.3000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 56 1430.35 4.01 356.01 233.59 118.06 6 21 47 830.4 7.73 349.31
 90.00 11 30 41 5598.67 28.19 262.08 240.48 92.85 13 3 59 4998.7 28.28 253.42
 100.00 7 3 47 1217.83 2.53 339.57 232.77 119.80 7 24 5 617.8 6.47 333.01
 100.00 13 7 31 5286.42 29.87 239.18 240.55 91.10 14 35 37 4686.4 29.71 230.38
 110.00 7 39 46 1105.06 -1.00 328.82 230.56 124.17 7 58 11 505.1 3.48 322.61
 110.00 14 48 2 4971.96 34.04 215.20 240.45 86.64 16 10 54 4372.0 33.20 206.06

DIFFERENTIAL CORRECTIONS

TOE -.5342 TRA -.4093 TC3 -.8004 BAU .5384
 RDE .7110 RRA .1087 RC3 2.0593 FAU .08416
 FDE-1.9242 FRA -.0740 FC3-3.9972 BSP 7030
 BDE .8893 BRA .4235 BC3 2.2094 FSP -1177

MID-COURSE EXECUTION ACCURACY

SGT 1153.9 SGR 2006.7 SG3 369.9
 RRT -.8546 RRF -.9873 RTF .8597
 SGB 2314.8 R23 .0922 R13 -.9835
 SG1 2252.4 SG2 533.9 THA 117.87

ORBIT DETERMINATION ACCURACY

ST 738.8 SR 956.7 SS 1057.1
 CRT -.9810 CRS .9992 CST -.9735
 LSA 1599.4 MSA 142.4 SSA 13.0
 EL1 1203.4 EL2 113.9 ALF 127.54

LAUNCH DATE FEB 12 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 329.890

RL 147.69 LAL .00 LOL 143.11 VL 27.891 GAL -5.40 AZL 94.43 MCA 151.55 SMA 130.20 ECC .16349 INC 4.4257 V1 30.168
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.652 GAP -.18 AZP 86.11 TAL 209.72 TAP 1.27 RCA 108.91 APO 151.49 V2 34.793
 RC 93.644 GL -29.08 GP 58.70 ZAL 131.96 ZAP 90.58 ETS 4.62 ZAE 120.91 ETE 102.94 ZAC 91.64 ETC 152.32 CLP -91.11

PLANETOCENTRIC CONIC

C3 19.437 VHL 4.409 CLA -25.25 RAL 15.26 RAD 6567.8 VEL 11.867 PTH 2.11 VHP 5.031 OPA 56.97 RAP 344.13 ECC 1.3199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 51 1266.86 9.16 346.76 238.92 116.91 7 19 57 666.9 12.70 339.87
 90.00 10 49 44 5792.39 26.74 276.05 245.00 99.70 12 26 16 5192.4 27.80 267.55
 100.00 7 56 28 1080.82 7.12 332.00 237.82 119.11 8 14 29 480.8 10.95 325.30
 100.00 12 34 48 5453.66 29.01 251.52 245.39 97.53 14 5 41 4853.7 29.75 242.79
 110.00 8 20 16 1006.17 2.77 323.66 235.14 124.08 8 37 2 406.2 7.23 317.41
 110.00 14 27 29 5101.07 34.10 225.27 245.92 92.60 15 52 30 4501.1 34.08 216.03

DIFFERENTIAL CORRECTIONS

TOE -.7120 TRA -.3941 TC3 -.9720 BAU .5705
 RDE .8627 RRA .0318 RC3 1.9686 FAU .07422
 FDE-1.9474 FRA .0568 FC3-3.3059 BSP 7587
 BDE 1.1185 BRA .3954 BC3 2.1955 FSP -1062

MID-COURSE EXECUTION ACCURACY

SGT 1382.5 SGR 2066.9 SG3 333.6
 RRT -.8927 RRF -.9891 RTF .8980
 SGB 2486.6 R23 .1035 R13 -.9842
 SG1 2429.5 SG2 530.0 THA 122.58

ORBIT DETERMINATION ACCURACY

ST 941.1 SR 1122.4 SS 1100.8
 CRT -.9855 CRS .9997 CST -.9818
 LSA 1826.4 MSA 146.3 SSA 10.5
 EL1 1459.6 EL2 122.6 ALF 129.91

LAUNCH DATE FEB 12 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 336.121

RL 147.69 LAL .00 LOL 143.11 VL 27.880 GAL -5.30 AZL 95.27 MCA 154.69 SMA 130.12 ECC .16315 INC 5.2699 V1 30.168
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.641 GAP .55 AZP 85.23 TAL 209.21 TAP 3.90 RCA 108.89 APO 151.35 V2 34.789
 RC 96.038 GL -33.55 GP 61.85 ZAL 128.97 ZAP 93.22 ETS 9.79 ZAE 117.22 ETE 107.59 ZAC 88.95 ETC 154.63 CLP -96.84

PLANETOCENTRIC CONIC

C3 21.286 VHL 4.614 OLA -28.90 RAL 18.28 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 5.431 DPA 58.13 RAP 338.18 ECC 1.3503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.97 8 16 11 1069.58 19.64 337.27 247.99 111.64 8 34 1 469.6 22.40 329.64
 96.03 9 56 29 745.02 19.65 313.48 247.99 111.63 10 8 54 145.0 22.42 305.86
 100.00 9 23 3 852.60 14.40 318.97 245.55 116.48 9 37 16 252.6 17.84 311.87
 100.00 11 32 18 5725.27 25.07 270.70 250.04 106.84 13 7 44 5125.3 27.13 262.51
 110.00 9 13 47 881.73 7.49 317.11 241.49 123.45 9 28 29 281.7 11.84 310.72
 110.00 13 58 3 5268.91 32.82 238.19 252.16 100.13 15 25 52 4668.9 33.87 229.11

DIFFERENTIAL CORRECTIONS

TDE -.9454 TRA -.3542 TC3 -1.0894 BAU .6004
 RDE 1.0357 RRA -.0637 RC3 1.8068 FAU .06366
 FDE -1.9446 FRA .1780 FC3 -2.5890 BSP 8191
 BDE 1.4023 BRA .3599 BC3 2.1098 FSP -942

MID-COURSE EXECUTION ACCURACY

SGT 1625.2 SGR 2107.6 SG3 294.3
 RRT -.9169 RRF -.9906 RTF .9230
 SGB 2661.4 R23 .1117 R13 -.9850
 SG1 2609.3 SG2 524.0 THA 127.00

ORBIT DETERMINATION ACCURACY

ST 1184.0 SR 1287.4 SS 1134.2
 CRT -.9889 CRS .9999 CST -.9874
 LSA 2079.3 MSA 149.6 SSA 8.3
 EL1 1744.3 EL2 130.0 ALF 132.58

LAUNCH DATE FEB 12 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 342.323

RL 147.69 LAL .00 LOL 143.11 VL 27.866 GAL -5.20 AZL 96.34 MCA 157.83 SMA 130.02 ECC .16290 INC 6.3350 V1 30.168
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.628 GAP .90 AZP 84.13 TAL 208.61 TAP 6.44 RCA 108.84 APO 151.20 V2 34.787
 RC 98.436 GL -38.51 GP 65.20 ZAL 125.43 ZAP 95.28 ETS 15.42 ZAE 113.28 ETE 112.16 ZAC 86.33 ETC 157.24 CLP -102.69

PLANETOCENTRIC CONIC

C3 24.183 VHL 4.918 OLA -32.85 RAL 21.95 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 5.972 DPA 59.30 RAP 331.71 ECC 1.3980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.60 7 7 28 1364.94 21.27 .15 254.88 115.65 7 30 13 764.9 24.54 352.64
 107.40 11 34 29 5799.72 21.28 274.69 254.88 115.64 13 11 9 5199.7 24.55 267.18
 72.60 7 7 28 1364.94 21.27 .15 254.88 115.65 7 30 13 764.9 24.54 352.64
 107.40 11 34 29 5799.72 21.28 274.69 254.88 115.64 13 11 9 5199.7 24.55 267.18
 110.00 10 38 38 683.69 14.72 306.34 251.16 121.20 10 50 2 83.7 18.75 299.53
 110.00 13 2 30 5528.96 28.13 256.95 258.08 110.28 14 34 39 4929.0 30.62 248.64

DIFFERENTIAL CORRECTIONS

TDE -1.2559 TRA -.2771 TC3 -1.1318 BAU .6237
 RDE 1.2270 RRA -.1863 RC3 1.5623 FAU .05256
 FDE -1.9083 FRA .2915 FC3 -1.8817 BSP 8739
 BDE 1.7558 BRA .3339 BC3 1.9292 FSP -806

MID-COURSE EXECUTION ACCURACY

SGT 1878.2 SGR 2114.6 SG3 252.4
 RRT -.9323 RRF -.9919 RTF .9402
 SGB 2828.3 R23 .1181 R13 -.9858
 SG1 2780.8 SG2 516.5 THA 131.37

ORBIT DETERMINATION ACCURACY

ST 1468.1 SR 1432.4 SS 1149.2
 CRT -.9912 CRS 1.0000 CST -.9912
 LSA 2346.2 MSA 152.4 SSA 6.5
 EL1 2046.6 EL2 136.3 ALF 135.71

LAUNCH DATE FEB 12 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 348.494

RL 147.69 LAL .00 LOL 143.11 VL 27.848 GAL -5.09 AZL 97.73 MCA 160.95 SMA 129.90 ECC .16272 INC 7.7299 V1 30.168
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.613 GAP 1.24 AZP 82.69 TAL 207.93 TAP 8.88 RCA 108.76 APO 151.03 V2 34.785
 RC 100.837 GL -43.94 GP 68.84 ZAL 121.31 ZAP 96.71 ETS 21.72 ZAE 109.04 ETE 116.99 ZAC 83.70 ETC 160.45 CLP -108.90

PLANETOCENTRIC CONIC

C3 28.907 VHL 5.376 OLA -37.03 RAL 26.44 RAD 6568.2 VEL 12.259 PTH 2.21 VHP 6.718 DPA 60.45 RAP 324.42 ECC 1.4757
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.07 6 41 39 1541.39 22.24 14.60 263.59 120.40 7 7 20 941.4 26.10 7.34
 114.93 12 36 8 5711.69 22.26 268.32 263.61 120.39 14 11 20 5111.7 26.12 261.06
 65.07 6 41 39 1541.39 22.24 14.60 263.59 120.40 7 7 20 941.4 26.10 7.34
 114.93 12 36 8 5711.69 22.26 268.32 263.61 120.39 14 11 20 5111.7 26.12 261.06
 65.07 6 41 39 1541.39 22.24 14.60 263.59 120.40 7 7 20 941.4 26.10 7.34
 114.93 12 36 8 5711.69 22.26 268.32 263.61 120.39 14 11 20 5111.7 26.12 261.06

DIFFERENTIAL CORRECTIONS

TDE -1.6815 TRA -.1430 TC3 -1.0845 BAU .6390
 RDE 1.4359 RRA -.3376 RC3 1.2481 FAU .04163
 FDE -1.8455 FRA .3882 FC3 -1.2468 BSP 9313
 BDE 2.2111 BRA .3666 BC3 1.6534 FSP -673

MID-COURSE EXECUTION ACCURACY

SGT 2146.4 SGR 2084.6 SG3 210.5
 RRT -.9433 RRF -.9929 RTF .9541
 SGB 2992.1 R23 .1204 R13 -.9870
 SG1 2949.5 SG2 503.4 THA 135.89

ORBIT DETERMINATION ACCURACY

ST 1793.1 SR 1536.7 SS 1145.3
 CRT -.9928 CRS .9999 CST -.9939
 LSA 2620.1 MSA 153.1 SSA 5.0
 EL1 2357.3 EL2 140.2 ALF 139.44

LAUNCH DATE FEB 12 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 354.628

RL 147.69 LAL .00 LOL 143.11 VL 27.828 GAL -4.96 AZL 99.65 MCA 164.06 SMA 129.75 ECC .16261 INC 9.6465 V1 30.168
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.597 GAP 1.56 AZP 80.72 TAL 207.17 TAP 11.22 RCA 108.65 APO 150.85 V2 34.784
 RC 103.240 GL -49.73 GP 72.89 ZAL 116.65 ZAP 97.46 ETS 29.29 ZAE 104.40 ETE 122.73 ZAC 80.97 ETC 164.89 CLP -116.18

PLANETOCENTRIC CONIC

C3 37.075 VHL 6.089 OLA -41.23 RAL 31.95 RAD 6568.4 VEL 12.587 PTH 2.28 VHP 7.785 DPA 61.45 RAP 315.88 ECC 1.6102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.69 6 33 9 1691.17 22.02 26.95 274.44 125.78 7 1 20 1091.2 26.54 20.12
 121.31 13 28 34 5687.22 22.04 266.13 274.45 125.77 15 3 21 5087.2 26.55 259.29
 58.69 6 33 9 1691.17 22.02 26.95 274.44 125.78 7 1 20 1091.2 26.54 20.12
 121.31 13 28 34 5687.22 22.04 266.13 274.45 125.77 15 3 21 5087.2 26.55 259.29
 58.69 6 33 9 1691.17 22.02 26.95 274.44 125.78 7 1 20 1091.2 26.54 20.12
 121.31 13 28 34 5687.22 22.04 266.13 274.45 125.77 15 3 21 5087.2 26.55 259.29

DIFFERENTIAL CORRECTIONS

TDE -2.2895 TRA .0914 TC3 -.9394 BAU .6369
 RDE 1.6294 RRA -.5250 RC3 .8767 FAU .03102
 FDE -1.7555 FRA .4722 FC3 -.7242 BSP 9801
 BDE 2.8101 BRA .5329 BC3 1.2849 FSP -540

MID-COURSE EXECUTION ACCURACY

SGT 2441.9 SGR 1980.4 SG3 169.7
 RRT -.9511 RRF -.9932 RTF .9667
 SGB 3144.0 R23 .1180 R13 -.9888
 SG1 3107.0 SG2 480.8 THA 141.25

ORBIT DETERMINATION ACCURACY

ST 2154.9 SR 1546.2 SS 1117.7
 CRT -.9937 CRS .9998 CST -.9959
 LSA 2874.1 MSA 150.8 SSA 3.8
 EL1 2648.5 EL2 140.6 ALF 144.39

LAUNCH DATE FEB 12 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 360.715

RL 147.69 LAL .00 LOL 143.11 VL 27.805 GAL -4.82 AZL 102.46 HCA 167.14 SMA 129.59 ECC .16255 INC12.4581 V1 30.168
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.580 GAP 1.87 AZP 77.84 TAL 206.31 TAP 13.45 RCA 108.53 APO 150.66 V2 34.783
 RC 105.643 GL -55.59 GP 77.44 ZAL 111.55 ZAP 97.48 ETS 39.83 ZAE 99.15 ETE 131.24 ZAC 77.94 ETC 172.40 CLP-126.77

PLANETOCENTRIC CONIC

C3 52.490 VHL 7.245 DLA -45.07 RAL 38.64 RAD 6568.9 VEL 13.185 PTH 2.41 VHP 9.403 DPA 62.01 RAP 305.55 ECC 1.8638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.34 6 38 10 1836.77 19.90 38.10 287.46 131.32 7 8 47 1236.8 25.06 31.90
 126.66 14 16 56 5716.30 19.91 266.90 287.47 131.31 15 52 12 5116.3 25.07 260.69
 53.34 6 38 10 1836.77 19.90 38.10 287.46 131.32 7 8 47 1236.8 25.06 31.90
 126.66 14 16 56 5716.30 19.91 266.90 287.47 131.31 15 52 12 5116.3 25.07 260.69
 53.34 6 38 10 1836.77 19.90 38.10 287.46 131.32 7 8 47 1236.8 25.06 31.90
 126.66 14 16 56 5716.30 19.91 266.90 287.47 131.31 15 52 12 5116.3 25.07 260.69

DIFFERENTIAL CORRECTIONS

TDE-3.2227 TRA .5215 TC3 -.7089 BAU .6041
 RDE 1.6778 RRA -.7215 RC3 .4883 FAU .02120
 FDE-1.6532 FRA .5451 FC3 -.3496 BSP 10290
 BOE 3.6333 BRA .8902 BC3 .8608 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 2809.2 SGR 1707.0 SG3 132.1
 RRT -.9551 RRF -.9908 RTF .9797
 SGB 3287.2 R23 .1074 R13 -.9914
 SG1 3258.1 SG2 435.9 THA 149.26

ORBIT DETERMINATION ACCURACY

ST 2554.8 SR 1349.0 SS 1072.6
 CRT -.9937 CRS .9991 CST -.9975
 LSA 3078.5 MSA 141.4 SSA 2.8
 EL1 2886.0 EL2 133.6 ALF 152.25

LAUNCH DATE FEB 12 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 366.731

RL 147.69 LAL .00 LOL 143.11 VL 27.781 GAL -4.66 AZL 106.99 HCA 170.18 SMA 129.42 ECC .16248 INC16.9874 V1 30.168
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.562 GAP 2.15 AZP 73.25 TAL 205.35 TAP 15.52 RCA 108.39 APO 150.45 V2 34.783
 RC 108.045 GL -60.91 GP 82.25 ZAL 106.20 ZAP 96.76 ETS 59.53 ZAE 92.90 ETE 148.82 ZAC 74.23 ETC 189.36 CLP-150.82

PLANETOCENTRIC CONIC

C3 85.690 VHL 9.257 DLA -47.88 RAL 46.45 RAD 6569.7 VEL 14.389 PTH 2.62 VHP 12.074 DPA 61.52 RAP 292.92 ECC 2.4102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.63 6 55 57 1987.25 15.27 47.70 302.14 135.95 7 29 4 1387.3 20.94 42.17
 130.37 15 1 29 5798.92 15.29 270.08 302.16 135.95 16 38 7 5198.9 20.95 264.55
 49.63 6 55 57 1987.25 15.27 47.70 302.14 135.95 7 29 4 1387.3 20.94 42.17
 130.37 15 1 29 5798.92 15.29 270.08 302.16 135.95 16 38 7 5198.9 20.95 264.55
 49.63 6 55 57 1987.25 15.27 47.70 302.14 135.95 7 29 4 1387.3 20.94 42.17
 130.37 15 1 29 5798.92 15.29 270.08 302.16 135.95 16 38 7 5198.9 20.95 264.55

DIFFERENTIAL CORRECTIONS

TDE-4.7527 TRA 1.4015 TC3 -.4120 BAU .4965
 RDE .8384 RRA -.6886 RC3 .1347 FAU .01199
 FDE-1.5665 FRA .6298 FC3 -.1212 BSP 10699
 BOE 4.8261 BRA 1.5615 BC3 .4334 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 3302.7 SGR 857.4 SG3 99.6
 RRT -.8964 RRF -.9395 RTF .9918
 SGB 3412.2 R23 .0883 R13 -.9944
 SG1 3392.1 SG2 370.0 THA 166.74

ORBIT DETERMINATION ACCURACY

ST 2967.3 SR 552.9 SS 1027.7
 CRT -.9757 CRS .9849 CST -.9989
 LSA 3186.0 MSA 125.3 SSA 2.0
 EL1 3016.0 EL2 119.2 ALF 169.68

LAUNCH DATE FEB 12 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 372.610

RL 147.69 LAL .00 LOL 143.11 VL 27.754 GAL -4.47 AZL 115.40 HCA 173.10 SMA 129.23 ECC .16232 INC25.3986 V1 30.168
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.543 GAP 2.39 AZP 64.76 TAL 204.21 TAP 17.31 RCA 108.25 APO 150.21 V2 34.784
 RC 110.446 GL -64.20 GP 83.02 ZAL 100.87 ZAP 95.34 ETS 108.86 ZAE 84.61 ETE 196.08 ZAC 68.94 ETC 236.69 CLP 140.00

PLANETOCENTRIC CONIC

C3 173.768 VHL 13.182 DLA -48.26 RAL 54.52 RAD 6570.9 VEL 17.178 PTH 2.94 VHP 17.104 DPA 58.57 RAP 277.90 ECC 3.8598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.13 7 26 26 2130.95 8.41 54.24 316.93 137.71 8 1 57 1530.9 14.28 49.11
 130.87 15 35 22 646.19 8.43 297.89 316.94 137.70 15 46 8 46.2 14.30 292.76
 49.13 7 26 26 2130.95 8.41 54.24 316.93 137.71 8 1 57 1530.9 14.28 49.11
 130.87 15 35 22 646.19 8.43 297.89 316.94 137.70 15 46 8 46.2 14.30 292.76
 49.13 7 26 26 2130.95 8.41 54.24 316.93 137.71 8 1 57 1530.9 14.28 49.11
 130.87 15 35 22 646.19 8.43 297.89 316.94 137.70 15 46 8 46.2 14.30 292.76

DIFFERENTIAL CORRECTIONS

TDE-4.7293 TRA 2.6287 TC3 -.0783 BAU .1835
 RDE-4.8021 RRA 1.2492 RC3 -.0102 FAU .00195
 FDE-1.5787 FRA .7913 FC3 -.0097 BSP 10958
 BOE 6.7399 BRA 2.9104 BC3 .0790 FSP -236

MID-COURSE EXECUTION ACCURACY

SGT 2685.9 SGR 2241.1 SG3 74.2
 RRT .9463 RRF .9629 RTF .9976
 SGB 3498.0 R23 -.0756 R13 .9965
 SG1 3452.3 SG2 563.7 THA 39.56

ORBIT DETERMINATION ACCURACY

ST 2119.1 SR 2101.5 SS 1039.6
 CRT .9917 CRS -.9944 CST -.9997
 LSA 3154.2 MSA 196.1 SSA 1.3
 EL1 2978.3 EL2 192.0 ALF 44.76

LAUNCH DATE FEB 12 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 378.103

RL 147.69 LAL .00 LOL 143.11 VL 27.725 GAL -4.19 AZL 134.73 HCA 175.68 SMA 129.03 ECC .16170 INC44.7309 V1 30.168
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.523 GAP 2.53 AZP 45.35 TAL 202.69 TAP 18.36 RCA 108.17 APO 149.89 V2 34.786
 RC 112.844 GL -61.01 GP 71.63 ZAL 96.07 ZAP 93.41 ETS 158.90 ZAE 70.97 ETE 244.06 ZAC 59.25 ETC 287.06 CLP 100.86

PLANETOCENTRIC CONIC

C3 494.942 VHL 22.247 DLA -42.63 RAL 59.95 RAD 6572.3 VEL 24.824 PTH 3.34 VHP 28.489 DPA 49.36 RAP 261.31 ECC 9.1455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.69 8 16 22 2186.07 1.74 52.61 328.04 132.60 8 52 48 1586.1 7.13 47.10
 123.31 15 28 42 847.78 1.75 309.84 328.06 132.60 15 42 50 247.8 7.15 304.33
 56.69 8 16 22 2186.07 1.74 52.61 328.04 132.60 8 52 48 1586.1 7.13 47.10
 123.31 15 28 42 847.78 1.75 309.84 328.06 132.60 15 42 50 247.8 7.15 304.33
 56.69 8 16 22 2186.07 1.74 52.61 328.04 132.60 8 52 48 1586.1 7.13 47.10
 123.31 15 28 42 847.78 1.75 309.84 328.06 132.60 15 42 50 247.8 7.15 304.33

DIFFERENTIAL CORRECTIONS

TDE 1.7513 TRA 1.4776 TC3 -.0246 BAU 1.1006
 RDE-9.9923 RRA 5.8723 RC3 .1645 FAU-.01824
 FDE-1.8950 FRA 1.2694 FC3 .0319 BSP 10558
 BDE10.1446 BRA 6.0554 BC3 .1663 FSP -183

MID-COURSE EXECUTION ACCURACY

SGT 694.9 SGR 3374.0 SG3 58.3
 RRT -.0757 RRF .9980 RTF -.0124
 SGB 3444.8 R23 -.0667 R13 .9978
 SG1 3374.4 SG2 692.8 THA 90.93

ORBIT DETERMINATION ACCURACY

ST 477.0 SR 2646.4 SS 1245.4
 CRT -.8438 CRS -.9995 CST -.8265
 LSA 2952.1 MSA 258.3 SSA .3
 EL1 2677.1 EL2 253.1 ALF 98.73

1682A

LAUNCH DATE FEB 12 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 388.710

RL 147.69 LAL .00 LOL 143.11 VL 27.694 GAL -4.94 AZL 1.66 MCA 183.12 SMA 128.82 ECC .16947 INC88.3376 V1 30.168
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.503 GAP 4.06 AZP 178.34 TAL 205.61 TAP 28.73 RCA 106.99 APO 150.65 V2 34.789
 RC 115.239 GL 43.08 GP -48.60 ZAL 93.85 ZAP 93.11 ETS 178.77 ZAE 50.62 ETE 97.33 ZAC 67.38 ETC 56.28 CLP 94.71

PLANETOCENTRIC CONIC

C31630.322 VHL 40.377 DLA 57.36 RAL 24.64 RAD 6573.2 VEL 41.852 PTH 3.57 VHP 49.806 DPA -63.43 RAP 208.27 ECC27.8310
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.79 16 51 20 5041.17 1.38 239.08 295.54 32.65 18 15 21 4441.2 -5.36 235.18
 142.21 2 12 5 3404.64 1.39 106.31 295.52 32.65 3 8 50 2804.6 -5.35 102.41
 37.79 16 51 20 5041.17 1.38 239.08 295.54 32.65 18 15 21 4441.2 -5.36 235.18
 142.21 2 12 5 3404.64 1.39 106.31 295.52 32.65 3 8 50 2804.6 -5.35 102.41
 37.79 16 51 20 5041.17 1.38 239.08 295.54 32.65 18 15 21 4441.2 -5.36 235.18
 142.21 2 12 5 3404.64 1.39 106.31 295.52 32.65 3 8 50 2804.6 -5.35 102.41

DIFFERENTIAL CORRECTIONS

TDE-5.5245 TRA 1.9905 TC3 -.1058 BAU 4.7253
 RD-15.3133 RRA -.1273 RC3 -.1892 FAU-.08077
 FDE 3.5470 FRA .0331 FC3 .0429 BSP 8956
 BDE16.2793 BRA 1.9945 BC3 .2168 FSP -171

MID-COURSE EXECUTION ACCURACY

SGT 1272.5 SGR 2656.6 SG3 52.8
 RRT .8850 RRF -.9999 RTF -.8823
 SGB 2945.6 R23 -.0885 R13 -.9960
 SG1 2895.0 SG2 543.6 THA 66.13

ORBIT DETERMINATION ACCURACY

ST 799.9 SR 2173.5 SS 2166.4
 CRT .9795 CRS 1.0000 CST .9794
 LSA 3167.4 MSA 156.2 SSA .8
 EL1 2311.1 EL2 151.4 ALF 70.09

LAUNCH DATE FEB 12 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 392.975

RL 147.69 LAL .00 LOL 143.11 VL 27.662 GAL -4.40 AZL 45.56 MCA 184.56 SMA 128.60 ECC .16676 INC44.4417 V1 30.168
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.482 GAP 3.85 AZP 134.35 TAL 203.02 TAP 27.57 RCA 107.15 APO 150.04 V2 34.792
 RC 117.630 GL 60.88 GP -72.74 ZAL 96.36 ZAP 95.52 ETS 186.85 ZAE 75.82 ETE 104.23 ZAC 87.22 ETC 68.95 CLP 108.91

PLANETOCENTRIC CONIC

C3 488.651 VHL 22.105 DLA 67.79 RAL 350.73 RAD 6572.3 VEL 24.697 PTH 3.33 VHP 26.802 DPA -79.48 RAP 135.51 ECC 9.0420
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.43 14 6 11 5029.09 -2.46 244.73 259.73 22.23 15 30 0 4429.1 -9.86 242.09
 154.57 0 26 39 3290.68 -2.45 97.42 259.71 22.23 1 21 29 2690.7 -9.85 94.77
 25.43 14 6 11 5029.09 -2.46 244.73 259.73 22.23 15 30 0 4429.1 -9.86 242.09
 154.57 0 26 39 3290.68 -2.45 97.42 259.71 22.23 1 21 29 2690.7 -9.85 94.77
 25.43 14 6 11 5029.09 -2.46 244.73 259.73 22.23 15 30 0 4429.1 -9.86 242.09
 154.57 0 26 39 3290.68 -2.45 97.42 259.71 22.23 1 21 29 2690.7 -9.85 94.77

DIFFERENTIAL CORRECTIONS

TDE -.0160 TRA 1.3398 TC3 -.0584 BAU 1.1976
 RD-10.3894 RRA 3.2225 RC3 -.1738 FAU-.01640
 FDE 2.1209 FRA -.6230 FC3 .0291 BSP 11219
 BDE10.3894 BRA 3.4899 BC3 .1833 FSP -194

MID-COURSE EXECUTION ACCURACY

SGT 954.3 SGR 3567.0 SG3 61.2
 RRT .6579 RRF -.9991 RTF -.6334
 SGB 3692.5 R23 -.0674 R13 -.9973
 SG1 3624.1 SG2 707.4 THA 79.62

ORBIT DETERMINATION ACCURACY

ST 275.7 SR 2773.3 SS 1307.2
 CRT .2537 CRS .9999 CST .2418
 LSA 3066.7 MSA 267.2 SSA 1.4
 EL1 2774.2 EL2 266.6 ALF 88.54

LAUNCH DATE FEB 12 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 398.485

RL 147.69 LAL .00 LOL 143.11 VL 27.629 GAL -4.11 AZL 63.10 MCA 187.20 SMA 128.37 ECC .16639 INC26.8959 V1 30.168
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.461 GAP 3.98 AZP 116.71 TAL 201.43 TAP 28.63 RCA 107.01 APO 149.73 V2 34.796
 RC 120.015 GL 64.13 GP -79.85 ZAL 99.59 ZAP 99.34 ETS 230.66 ZAE 88.78 ETE 147.84 ZAC 96.52 ETC 113.94 CLP 157.10

PLANETOCENTRIC CONIC

C3 191.972 VHL 13.855 DLA 66.07 RAL 337.73 RAD 6571.0 VEL 17.700 PTH 2.98 VHP 16.481 DPA -73.66 RAP 80.11 ECC 4.1594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.43 13 18 49 4911.54 -9.33 240.92 243.56 24.27 14 40 41 4311.5 -16.60 237.92
 152.57 23 26 24 3186.08 -9.32 95.80 243.54 24.27 24 19 30 2586.1 -16.59 92.80
 27.43 13 18 49 4911.54 -9.33 240.92 243.56 24.27 14 40 41 4311.5 -16.60 237.92
 152.57 23 26 24 3186.08 -9.32 95.80 243.54 24.27 24 19 30 2586.1 -16.59 92.80
 27.43 13 18 49 4911.54 -9.33 240.92 243.56 24.27 14 40 41 4311.5 -16.60 237.92
 152.57 23 26 24 3186.08 -9.32 95.80 243.54 24.27 24 19 30 2586.1 -16.59 92.80

DIFFERENTIAL CORRECTIONS

TDE 3.9153 TRA-1.3609 TC3 -.0330 BAU .0850
 RDE-3.5568 RRA 2.8916 RC3 -.0030 FAU .00504
 FDE 1.3953 FRA -.7069 FC3 -.0227 BSP 12278
 BDE 5.2897 BRA 3.1959 BC3 .0331 FSP -259

MID-COURSE EXECUTION ACCURACY

SGT 2134.3 SGR 3294.7 SG3 80.0
 RRT -.9203 RRF -.9751 RTF .9823
 SGB 3925.6 R23 -.1037 R13 -.9936
 SG1 3860.4 SG2 712.6 THA 122.02

ORBIT DETERMINATION ACCURACY

ST 1671.8 SR 1716.3 SS 877.4
 CRT -.9583 CRS .9833 CST -.9943
 LSA 2527.7 MSA 347.5 SSA 1.7
 EL1 2370.8 EL2 345.8 ALF 134.21

LAUNCH DATE FEB 12 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 404.298

RL 147.69 LAL .00 LOL 143.11 VL 27.595 GAL -3.88 AZL 70.93 MCA 190.14 SMA 128.13 ECC .16663 INC19.0736 V1 30.168
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.440 GAP 4.19 AZP 108.80 TAL 200.08 TAP 30.21 RCA 106.78 APO 149.48 V2 34.800
 RC 122.394 GL 62.47 GP -75.82 ZAL 102.48 ZAP 103.73 ETS 284.76 ZAE 96.94 ETE 201.33 ZAC 101.72 ETC 168.43 CLP-165.82

PLANETOCENTRIC CONIC

C3 102.936 VHL 10.146 DLA 63.12 RAL 337.65 RAD 6570.0 VEL 14.976 PTH 2.70 VHP 11.896 DPA -66.63 RAP 62.65 ECC 2.6941
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.90 13 26 32 4783.11 -16.08 235.22 239.26 28.07 14 46 15 4183.1 -23.10 231.56
 149.10 23 18 1 3083.09 -16.07 94.03 239.24 28.06 24 9 24 2483.1 -23.09 90.36
 30.90 13 26 32 4783.11 -16.08 235.22 239.26 28.07 14 46 15 4183.1 -23.10 231.56
 149.10 23 18 1 3083.09 -16.07 94.03 239.24 28.06 24 9 24 2483.1 -23.09 90.36
 30.90 13 26 32 4783.11 -16.08 235.22 239.26 28.07 14 46 15 4183.1 -23.10 231.56
 149.10 23 18 1 3083.09 -16.07 94.03 239.24 28.06 24 9 24 2483.1 -23.09 90.36

DIFFERENTIAL CORRECTIONS

TDE 3.7019 TRA-2.7031 TC3 -.3184 BAU .4386
 RDE .4224 RRA .3009 RC3 -.0130 FAU .01692
 FDE 1.3164 FRA -.7491 FC3 -.1423 BSP 12708
 BDE 3.7259 BRA 2.7198 BC3 .3187 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 4023.7 SGR 446.0 SG3 106.2
 RRT -.4199 RRF -.3041 RTF .9906
 SGB 4048.3 R23 -.1279 R13 -.9900
 SG1 4028.1 SG2 404.3 THA 177.31

ORBIT DETERMINATION ACCURACY

ST 2323.1 SR 263.8 SS 816.8
 CRT .6272 CRS -.6948 CST -.9959
 LSA 2467.3 MSA 214.9 SSA 2.1
 EL1 2329.1 EL2 205.0 ALF 4.11

LAUNCH DATE FEB 12 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 410.203

RL 147.69 LAL .00 LOL 143.11 VL 27.559 GAL -3.66 AZL 75.21 HCA 193.18 SMA 127.89 ECC .16714 INC14.7860 V1 30.168
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.419 GAP 4.43 AZP 104.41 TAL 198.77 TAP 31.96 RCA 106.51 APO 149.27 V2 34.805
 RC 124.766 GL 59.49 GP -69.57 ZAL 104.81 ZAP 108.36 ETS 299.94 ZAE 103.12 ETE 215.30 ZAC 105.40 ETC 183.50 CLP-154.50

PLANETOCENTRIC CONIC

C3 66.375 VHL 8.147 DLA 60.34 RAL 340.93 RAD 6569.3 VEL 13.701 PTH 2.50 VHP 9.491 DPA -60.22 RAP 53.64 ECC 2.0924
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.21 13 47 42 4669.71 -21.42 229.16 238.03 32.12 15 5 32 4069.7 -28.13 224.77
 145.79 23 23 3 2997.85 -21.41 91.90 238.01 32.12 24 13 1 2397.9 -28.12 87.50
 34.21 13 47 42 4669.71 -21.42 229.16 238.03 32.12 15 5 32 4069.7 -28.13 224.77
 145.79 23 23 3 2997.85 -21.41 91.90 238.01 32.12 24 13 1 2397.9 -28.12 87.50
 34.21 13 47 42 4669.71 -21.42 229.16 238.03 32.12 15 5 32 4069.7 -28.13 224.77
 145.79 23 23 3 2997.85 -21.41 91.90 238.01 32.12 24 13 1 2397.9 -28.12 87.50

DIFFERENTIAL CORRECTIONS

TOE 2.8908 TRA-2.3481 TC3 -.6743 BAU .6160
 RDE 1.0208 RRA -.3036 RC3 -.1650 FAU .02708
 FDE 1.3860 FRA -.7843 FC3 -.3532 BSP 13289
 BOE 3.0658 BRA 2.3677 BC3 .6942 FSP -462

MID-COURSE EXECUTION ACCURACY

SGT 4058.7 SGR 879.6 SG3 137.3
 RRT .8947 RRF .9556 RTF .9822
 SGB 4153.0 R23 .1540 R13 .9852
 SGI 4135.0 SG2 385.6 THA 11.07

ORBIT DETERMINATION ACCURACY

ST 2266.3 SR 729.5 SS 845.1
 CRT .9613 CRS -.9884 CST -.9919
 LSA 2517.8 MSA 208.3 SSA 2.7
 EL1 2373.1 EL2 192.0 ALF 17.31

LAUNCH DATE FEB 12 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 416.175

RL 147.69 LAL .00 LOL 143.11 VL 27.523 GAL -3.43 AZL 77.91 HCA 196.28 SMA 127.64 ECC .16776 INC12.0935 V1 30.168
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.397 GAP 4.67 AZP 101.62 TAL 197.44 TAP 33.71 RCA 106.23 APO 149.06 V2 34.811
 RC 127.128 GL 56.26 GP -63.46 ZAL 106.53 ZAP 112.99 ETS 304.99 ZAE 108.14 ETE 218.57 ZAC 108.37 ETC 188.05 CLP-150.95

PLANETOCENTRIC CONIC

C3 47.913 VHL 6.922 DLA 57.86 RAL 345.02 RAD 6568.8 VEL 13.011 PTH 2.37 VHP 8.083 DPA -54.27 RAP 48.08 ECC 1.7885
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.18 14 11 41 4575.23 -25.29 223.28 237.77 36.04 15 27 56 3975.2 -31.66 218.18
 142.82 23 31 43 2932.38 -25.28 89.73 237.75 36.04 24 20 35 2332.4 -31.64 84.63
 37.18 14 11 41 4575.23 -25.29 223.28 237.77 36.04 15 27 56 3975.2 -31.66 218.18
 142.82 23 31 43 2932.38 -25.28 89.73 237.75 36.04 24 20 35 2332.4 -31.64 84.63
 37.18 14 11 41 4575.23 -25.29 223.28 237.77 36.04 15 27 56 3975.2 -31.66 218.18
 142.82 23 31 43 2932.38 -25.28 89.73 237.75 36.04 24 20 35 2332.4 -31.64 84.63

DIFFERENTIAL CORRECTIONS

TOE 2.8179 TRA-1.7683 TC3 -.8194 BAU .5344
 RDE 1.1682 RRA -.1857 RC3 -.1573 FAU .02556
 FDE 1.6979 FRA -.5575 FC3 -.4619 BSP 5893
 BOE 3.0504 BRA 1.7780 BC3 .8343 FSP -105

MID-COURSE EXECUTION ACCURACY

SGT 3781.2 SGR 1032.4 SG3 153.0
 RRT .8446 RRF .9565 RTF .9542
 SGB 3919.6 R23 .2498 R13 .9629
 SGI 3882.4 SG2 538.3 THA 13.25

ORBIT DETERMINATION ACCURACY

ST 2474.5 SR 970.9 SS 998.3
 CRT .9687 CRS -.9956 CST -.9877
 LSA 2828.1 MSA 253.2 SSA 3.3
 EL1 2648.6 EL2 225.1 ALF 20.97

LAUNCH DATE FEB 12 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 422.091

RL 147.69 LAL .00 LOL 143.11 VL 27.485 GAL -3.21 AZL 79.76 HCA 199.39 SMA 127.39 ECC .16862 INC10.2437 V1 30.168
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.376 GAP 4.93 AZP 99.67 TAL 196.16 TAP 35.55 RCA 105.91 APO 148.87 V2 34.818
 RC 129.481 GL 53.07 GP -57.76 ZAL 107.75 ZAP 117.54 ETS 307.24 ZAE 112.29 ETE 218.56 ZAC 110.90 ETC 189.47 CLP-150.09

PLANETOCENTRIC CONIC

C3 37.275 VHL 6.105 DLA 55.61 RAL 349.17 RAD 6568.5 VEL 12.595 PTH 2.28 VHP 7.209 DPA -48.72 RAP 44.33 ECC 1.6135
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.91 14 35 37 4497.08 -27.95 217.74 237.90 39.74 15 50 34 3897.1 -33.97 212.00
 140.09 23 40 54 2884.03 -27.94 87.77 237.88 39.74 24 28 58 2284.0 -33.95 82.03
 39.91 14 35 37 4497.08 -27.95 217.74 237.90 39.74 15 50 34 3897.1 -33.97 212.00
 140.09 23 40 54 2884.03 -27.94 87.77 237.88 39.74 24 28 58 2284.0 -33.95 82.03
 39.91 14 35 37 4497.08 -27.95 217.74 237.90 39.74 15 50 34 3897.1 -33.97 212.00
 140.09 23 40 54 2884.03 -27.94 87.77 237.88 39.74 24 28 58 2284.0 -33.95 82.03

DIFFERENTIAL CORRECTIONS

TOE 2.3170 TRA-1.8288 TC3 -1.4672 BAU .7582
 RDE .9299 RRA -.3177 RC3 -.4027 FAU .04308
 FDE 1.5649 FRA -.7444 FC3 -1.0005 BSP 13313
 BOE 2.4966 BRA 1.8562 BC3 1.5215 FSP -641

MID-COURSE EXECUTION ACCURACY

SGT 4144.0 SGR 1132.3 SG3 196.6
 RRT .9341 RRF .9839 RTF .9693
 SGB 4295.9 R23 .1970 R13 .9742
 SGI 4278.0 SG2 391.6 THA 14.44

ORBIT DETERMINATION ACCURACY

ST 2358.4 SR 887.0 SS 943.8
 CRT .9764 CRS -.9977 CST -.9888
 LSA 2682.4 MSA 209.8 SSA 4.2
 EL1 2513.3 EL2 179.6 ALF 20.27

LAUNCH DATE FEB 12 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 428.039

RL 147.69 LAL .00 LOL 143.11 VL 27.447 GAL -2.97 AZL 81.11 HCA 202.52 SMA 127.14 ECC .16955 INC 8.8898 V1 30.168
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.355 GAP 5.18 AZP 98.22 TAL 194.83 TAP 37.35 RCA 105.58 APO 148.69 V2 34.825
 RC 131.823 GL 50.07 GP -52.60 ZAL 108.44 ZAP 121.84 ETS 308.57 ZAE 115.72 ETE 217.31 ZAC 113.18 ETC 189.77 CLP-150.29

PLANETOCENTRIC CONIC

C3 30.512 VHL 5.524 DLA 53.67 RAL 353.25 RAD 6568.2 VEL 12.324 PTH 2.22 VHP 6.647 DPA -43.56 RAP 41.85 ECC 1.5022
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.29 14 58 41 4432.13 -29.77 212.73 238.40 43.04 16 12 33 3832.1 -35.45 206.45
 137.71 23 50 23 2848.04 -29.76 86.04 238.38 43.03 24 37 51 2248.0 -35.44 79.76
 42.29 14 58 41 4432.13 -29.77 212.73 238.40 43.04 16 12 33 3832.1 -35.45 206.45
 137.71 23 50 23 2848.04 -29.76 86.04 238.38 43.03 24 37 51 2248.0 -35.44 79.76
 42.29 14 58 41 4432.13 -29.77 212.73 238.40 43.04 16 12 33 3832.1 -35.45 206.45
 137.71 23 50 23 2848.04 -29.76 86.04 238.38 43.03 24 37 51 2248.0 -35.44 79.76

DIFFERENTIAL CORRECTIONS

TOE 2.1758 TRA-1.6602 TC3 -1.9149 BAU .8056
 RDE .8205 RRA -.2623 RC3 -.4835 FAU .04962
 FDE 1.5964 FRA -.6902 FC3 -1.4078 BSP 13739
 BOE 2.3254 BRA 1.6808 BC3 1.9750 FSP -739

MID-COURSE EXECUTION ACCURACY

SGT 4244.9 SGR 1104.8 SG3 222.3
 RRT .9352 RRF .9832 RTF .9650
 SGB 4386.3 R23 .2074 R13 .9696
 SGI 4369.8 SG2 380.1 THA 13.79

ORBIT DETERMINATION ACCURACY

ST 2420.3 SR 862.3 SS 973.8
 CRT .9784 CRS -.9984 CST -.9883
 LSA 2740.0 MSA 205.7 SSA 5.1
 EL1 2563.8 EL2 168.4 ALF 19.30

LAUNCH DATE FEB 12 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 433.983

RL 147.69 LAL .00 LOL 143.11 VL 27.409 GAL -2.73 AZL 82.15 MCA 205.66 SMA 126.88 ECC .17060 INC 7.8514 V1 30.168
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.334 GAP 5.43 AZP 97.09 TAL 193.48 TAP 39.14 RCA 105.23 APO 148.53 V2 34.833
 RC 134.153 GL 47.28 GP -47.97 ZAL 108.67 ZAP 125.85 ETS 309.52 ZAE 118.52 ETE 215.50 ZAC 115.30 ETC 189.58 CLP-151.00

PLANETOCENTRIC CONIC

C3 25.915 VHL 5.091 DLA 51.99 RAL 357.23 RAD 6568.0 VEL 12.136 PTH 2.18 VHP 6.282 DPA -38.81 RAP 40.25 ECC 1.4265
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.39 15 20 49 4377.47 -31.00 208.25 239.24 45.93 16 33 46 3777.5 -36.37 201.53
 135.61 0 3 55 2821.25 -30.98 84.58 239.22 45.92 0 50 57 2221.3 -36.36 77.87
 44.39 15 20 49 4377.47 -31.00 208.25 239.24 45.93 16 33 46 3777.5 -36.37 201.53
 135.61 0 3 55 2821.25 -30.98 84.58 239.22 45.92 0 50 57 2221.3 -36.36 77.87
 44.39 15 20 49 4377.47 -31.00 208.25 239.24 45.93 16 33 46 3777.5 -36.37 201.53
 135.61 0 3 55 2821.25 -30.98 84.58 239.22 45.92 0 50 57 2221.3 -36.36 77.87

DIFFERENTIAL CORRECTIONS

TDE 2.0827 TRA-1.5052 TC3-2.3682 BAU .8409
 RDE .7253 RRA -.2047 RC3 -.5316 FAU .05435
 FDE 1.6000 FRA -.6045 FC3-1.8156 BSP 13995
 BDE 2.2054 BRA 1.5191 BC3 2.4271 FSP -807

MID-COURSE EXECUTION ACCURACY

SGT 4344.7 SGR 1048.5 SG3 242.5
 RRT .9324 RRF .9798 RTF .9607
 SGB 4469.4 R23 .2143 R13 .9649
 SG1 4454.1 SG2 369.5 THA 12.77

ORBIT DETERMINATION ACCURACY

ST 2486.2 SR 824.2 SS 994.3
 CRT .9796 CRS -.9989 CST -.9878
 LSA 2794.3 MSA 202.0 SSA 6.1
 EL1 2614.5 EL2 157.3 ALF 18.06

LAUNCH DATE FEB 12 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 439.919

RL 147.69 LAL .00 LOL 143.11 VL 27.370 GAL -2.48 AZL 82.97 MCA 208.81 SMA 126.62 ECC .17176 INC 7.0257 V1 30.168
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.313 GAP 5.69 AZP 96.16 TAL 192.10 TAP 40.91 RCA 104.87 APO 148.37 V2 34.841
 RC 136.471 GL 44.68 GP -43.83 ZAL 108.48 ZAP 129.55 ETS 310.28 ZAE 120.78 ETE 213.44 ZAC 117.30 ETC 189.16 CLP-151.96

PLANETOCENTRIC CONIC

C3 22.624 VHL 4.756 DLA 50.53 RAL 1.14 RAD 6567.9 VEL 12.000 PTH 2.14 VHP 6.049 DPA -34.47 RAP 39.30 ECC 1.3723
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.23 15 42 6 4330.99 -31.82 204.28 240.42 48.43 16 54 17 3731.0 -36.91 197.22
 133.77 0 13 47 2801.12 -31.81 83.38 240.40 48.43 1 0 28 2201.1 -36.90 76.31
 46.23 15 42 6 4330.99 -31.82 204.28 240.42 48.43 16 54 17 3731.0 -36.91 197.22
 133.77 0 13 47 2801.12 -31.81 83.38 240.40 48.43 1 0 28 2201.1 -36.90 76.31
 46.23 15 42 6 4330.99 -31.82 204.28 240.42 48.43 16 54 17 3731.0 -36.91 197.22
 133.77 0 13 47 2801.12 -31.81 83.38 240.40 48.43 1 0 28 2201.1 -36.90 76.31

DIFFERENTIAL CORRECTIONS

TDE 2.0141 TRA-1.3620 TC3-2.8286 BAU .8719
 RDE .6447 RRA -.1549 RC3 -.5558 FAU .05760
 FDE 1.5754 FRA -.5021 FC3-2.2040 BSP 14291
 BDE 2.1148 BRA 1.3708 BC3 2.8826 FSP -861

MID-COURSE EXECUTION ACCURACY

SGT 4448.2 SGR 984.3 SG3 257.8
 RRT .9283 RRF .9744 RTF .9570
 SGB 4555.8 R23 .2157 R13 .9606
 SG1 4541.7 SG2 358.5 THA 11.68

ORBIT DETERMINATION ACCURACY

ST 2548.0 SR 781.8 SS 1003.4
 CRT .9808 CRS -.9993 CST -.9873
 LSA 2840.9 MSA 198.0 SSA 7.1
 EL1 2661.2 EL2 146.0 ALF 16.80

LAUNCH DATE FEB 12 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 445.847

RL 147.69 LAL .00 LOL 143.11 VL 27.330 GAL -2.22 AZL 83.65 MCA 211.97 SMA 126.36 ECC .17305 INC 6.3499 V1 30.168
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.292 GAP 5.94 AZP 95.39 TAL 190.70 TAP 42.66 RCA 104.49 APO 148.23 V2 34.850
 RC 138.775 GL 42.26 GP -40.16 ZAL 107.92 ZAP 132.94 ETS 310.94 ZAE 122.59 ETE 211.32 ZAC 119.24 ETC 188.66 CLP-153.04

PLANETOCENTRIC CONIC

C3 20.176 VHL 4.492 DLA 49.26 RAL 5.01 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 5.906 DPA -30.51 RAP 38.84 ECC 1.3321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.85 16 2 48 4290.97 -32.37 200.78 241.93 50.60 17 14 19 3691.0 -37.21 193.43
 132.15 0 23 59 2786.01 -32.36 82.40 241.92 50.59 1 10 25 2186.0 -37.20 75.05
 47.85 16 2 48 4290.97 -32.37 200.78 241.93 50.60 17 14 19 3691.0 -37.21 193.43
 132.15 0 23 59 2786.01 -32.36 82.40 241.92 50.59 1 10 25 2186.0 -37.20 75.05
 47.85 16 2 48 4290.97 -32.37 200.78 241.93 50.60 17 14 19 3691.0 -37.21 193.43
 132.15 0 23 59 2786.01 -32.36 82.40 241.92 50.59 1 10 25 2186.0 -37.20 75.05

DIFFERENTIAL CORRECTIONS

TDE 1.9611 TRA-1.2242 TC3-3.2913 BAU .9007
 RDE .5777 RRA -.1137 RC3 -.5625 FAU .05959
 FDE 1.5281 FRA -.3902 FC3-2.5570 BSP 14610
 BDE 2.0444 BRA 1.2295 BC3 3.3390 FSP -900

MID-COURSE EXECUTION ACCURACY

SGT 4552.4 SGR 920.7 SG3 268.5
 RRT .9231 RRF .9669 RTF .9537
 SGB 4644.6 R23 .2116 R13 .9568
 SG1 4631.5 SG2 348.1 THA 10.63

ORBIT DETERMINATION ACCURACY

ST 2604.0 SR 740.0 SS 1002.1
 CRT .9821 CRS -.9995 CST -.9868
 LSA 2880.1 MSA 193.4 SSA 8.2
 EL1 2703.7 EL2 134.3 ALF 15.63

LAUNCH DATE FEB 12 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 451.764

RL 147.69 LAL .00 LOL 143.11 VL 27.290 GAL -1.95 AZL 84.22 MCA 215.12 SMA 126.10 ECC .17446 INC 5.7836 V1 30.168
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.272 GAP 6.19 AZP 94.74 TAL 189.27 TAP 44.40 RCA 104.10 APO 148.10 V2 34.860
 RC 141.067 GL 39.97 GP -36.92 ZAL 107.00 ZAP 136.03 ETS 311.52 ZAE 124.04 ETE 209.24 ZAC 121.15 ETC 188.13 CLP-154.19

PLANETOCENTRIC CONIC

C3 18.303 VHL 4.278 DLA 48.15 RAL 8.89 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 5.829 DPA -26.90 RAP 38.77 ECC 1.3012
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.27 16 23 1 4256.39 -32.73 197.69 243.76 52.47 17 33 57 3656.4 -37.35 190.12
 130.73 0 34 42 2774.55 -32.72 81.60 243.76 52.46 1 20 56 2174.5 -37.34 74.04
 49.27 16 23 1 4256.39 -32.73 197.69 243.76 52.47 17 33 57 3656.4 -37.35 190.12
 130.73 0 34 42 2774.55 -32.72 81.60 243.76 52.46 1 20 56 2174.5 -37.34 74.04
 49.27 16 23 1 4256.39 -32.73 197.69 243.76 52.47 17 33 57 3656.4 -37.35 190.12
 130.73 0 34 42 2774.55 -32.72 81.60 243.76 52.46 1 20 56 2174.5 -37.34 74.04

DIFFERENTIAL CORRECTIONS

TDE 1.9211 TRA-1.0870 TC3-3.7475 BAU .9270
 RDE .5236 RRA -.0797 RC3 -.5546 FAU .06040
 FDE 1.4682 FRA -.2730 FC3-2.8570 BSP 14920
 BDE 1.9912 BRA 1.0899 BC3 3.7884 FSP -923

MID-COURSE EXECUTION ACCURACY

SGT 4654.4 SGR 861.7 SG3 275.2
 RRT .9163 RRF .9571 RTF .9508
 SGB 4733.5 R23 .2028 R13 .9533
 SG1 4721.2 SG2 340.3 THA 9.68

ORBIT DETERMINATION ACCURACY

ST 2656.6 SR 703.0 SS 994.4
 CRT .9836 CRS -.9997 CST -.9863
 LSA 2916.3 MSA 188.7 SSA 9.4
 EL1 2745.3 EL2 122.8 ALF 14.62

LAUNCH DATE FEB 12 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 457.670

RL 147.69 LAL .00 LOL 143.11 VL 27.250 GAL -1.66 AZL 84.70 HCA 218.29 SMA 125.84 ECC .17600 INC 5.2994 V1 30.168
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.252 GAP 6.45 AZP 94.16 TAL 187.83 TAP 46.12 RCA 103.69 APO 147.98 V2 34.870
 RC 143.344 GL 37.81 GP -34.06 ZAL 105.78 ZAP 138.85 ETS 312.02 ZAE 125.18 ETE 207.27 ZAC 123.04 ETC 187.61 CLP-155.35

PLANETOCENTRIC CONIC

C3 16.840 VHL 4.104 DLA 47.18 RAL 12.80 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 5.800 OPA -23.61 RAP 39.01 ECC 1.2771
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.54 16 43 2 4226.16 -32.94 194.95 245.92 54.08 17 53 28 3626.2 -37.37 187.21
 129.46 0 45 55 2766.13 -32.93 80.97 245.91 54.07 1 32 1 2166.1 -37.36 73.24
 50.54 16 43 2 4226.16 -32.94 194.95 245.92 54.08 17 53 28 3626.2 -37.37 187.21
 129.46 0 45 55 2766.13 -32.93 80.97 245.91 54.07 1 32 1 2166.1 -37.36 73.24
 50.54 16 43 2 4226.16 -32.94 194.95 245.92 54.08 17 53 28 3626.2 -37.37 187.21
 129.46 0 45 55 2766.13 -32.93 80.97 245.91 54.07 1 32 1 2166.1 -37.36 73.24

DIFFERENTIAL CORRECTIONS

TDE 1.8905 TRA -.9454 TC3-4.1891 BAU .9508
 RDE .4801 RRA -.0509 RC3 -.5360 FAU .06022
 FDE 1.3996 FRA -.1520 FC3-3.0958 BSP 15162
 BDE 1.9505 BRA .9468 BC3 4.2233 FSP -929

MID-COURSE EXECUTION ACCURACY

SGT 4749.8 SGR 808.6 SG3 278.3
 RRT .9074 RRF .9448 RTF .9479
 SGB 4818.1 R23 .1911 R13 .9501
 SG1 4806.4 S22 335.8 THA 8.83

ORBIT DETERMINATION ACCURACY

ST 2705.1 SR 671.2 SS 981.1
 CRT .9853 CRS -.9998 CST -.9857
 LSA 2949.0 MSA 184.1 SSA 10.7
 EL1 2784.9 EL2 111.2 ALF 13.76

LAUNCH DATE FEB 12 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 463.565

RL 147.69 LAL .00 LOL 143.11 VL 27.209 GAL -1.37 AZL 85.12 HCA 221.45 SMA 125.57 ECC .17769 INC 4.8783 V1 30.168
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.232 GAP 6.71 AZP 93.66 TAL 186.37 TAP 47.82 RCA 103.26 APO 147.89 V2 34.880
 RC 145.608 GL 35.74 GP -31.53 ZAL 104.26 ZAP 141.43 ETS 312.43 ZAE 126.08 ETE 205.43 ZAC 124.93 ETC 187.12 CLP-156.52

PLANETOCENTRIC CONIC

C3 15.684 VHL 3.960 DLA 46.31 RAL 16.78 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 5.807 OPA -20.60 RAP 39.52 ECC 1.2581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.69 17 2 59 4199.60 -33.05 192.51 248.37 55.49 18 12 59 3599.6 -37.31 184.64
 128.31 0 57 40 2760.27 -33.03 80.50 248.36 55.48 1 43 40 2160.3 -37.30 72.63
 51.69 17 2 59 4199.60 -33.05 192.51 248.37 55.49 18 12 59 3599.6 -37.31 184.64
 128.31 0 57 40 2760.27 -33.03 80.50 248.36 55.48 1 43 40 2160.3 -37.30 72.63
 51.69 17 2 59 4199.60 -33.05 192.51 248.37 55.49 18 12 59 3599.6 -37.31 184.64
 128.31 0 57 40 2760.27 -33.03 80.50 248.36 55.48 1 43 40 2160.3 -37.30 72.63

DIFFERENTIAL CORRECTIONS

TDE 1.8632 TRA -.8032 TC3-4.6190 BAU .9745
 RDE .4448 RRA -.0281 RC3 -.5124 FAU .05942
 FDE 1.3236 FRA -.0369 FC3-3.2799 BSP 15475
 BDE 1.9156 BRA .8037 BC3 4.6474 FSP -932

MID-COURSE EXECUTION ACCURACY

SGT 4845.8 SGR 763.1 SG3 278.9
 RRT .8975 RRF .9301 RTF .9458
 SGB 4905.5 R23 .1751 R13 .9476
 SG1 4894.2 S22 333.3 THA 8.08

ORBIT DETERMINATION ACCURACY

ST 2744.7 SR 643.8 SS 961.7
 CRT .9874 CRS -.9996 CST -.9851
 LSA 2973.3 MSA 179.0 SSA 11.9
 EL1 2817.4 EL2 99.3 ALF 13.06

LAUNCH DATE FEB 12 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 469.446

RL 147.69 LAL .00 LOL 143.11 VL 27.169 GAL -1.07 AZL 85.49 HCA 224.62 SMA 125.31 ECC .17952 INC 4.5068 V1 30.168
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.212 GAP 6.97 AZP 93.21 TAL 184.89 TAP 49.51 RCA 102.82 APO 147.81 V2 34.891
 RC 147.857 GL 33.74 GP -29.29 ZAL 102.48 ZAP 143.78 ETS 312.76 ZAE 126.79 ETE 203.75 ZAC 126.83 ETC 186.66 CLP-157.67

PLANETOCENTRIC CONIC

C3 14.769 VHL 3.843 DLA 45.51 RAL 20.83 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 5.844 OPA -17.85 RAP 40.24 ECC 1.2431
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.75 17 23 3 4176.12 -33.06 190.32 251.11 56.73 18 32 39 3576.1 -37.17 182.34
 127.25 1 9 57 2756.73 -33.04 80.18 251.10 56.71 1 55 53 2156.7 -37.16 72.20
 52.75 17 23 3 4176.12 -33.06 190.32 251.11 56.73 18 32 39 3576.1 -37.17 182.34
 127.25 1 9 57 2756.73 -33.04 80.18 251.10 56.71 1 55 53 2156.7 -37.16 72.20
 52.75 17 23 3 4176.12 -33.06 190.32 251.11 56.73 18 32 39 3576.1 -37.17 182.34
 127.25 1 9 57 2756.73 -33.04 80.18 251.10 56.71 1 55 53 2156.7 -37.16 72.20

DIFFERENTIAL CORRECTIONS

TDE 1.8372 TRA -.6562 TC3-5.0298 BAU .9977
 RDE .4162 RRA -.0089 RC3 -.4862 FAU .05817
 FDE 1.2429 FRA .0745 FC3-3.4097 BSP 15788
 BDE 1.8838 BRA .6563 BC3 5.0532 FSP -928

MID-COURSE EXECUTION ACCURACY

SGT 4939.4 SGR 724.6 SG3 277.7
 RRT .8859 RRF .9131 RTF .9441
 SGB 4992.2 R23 .1571 R13 .9455
 SG1 4981.1 S22 333.2 THA 7.44

ORBIT DETERMINATION ACCURACY

ST 2773.4 SR 620.6 SS 936.7
 CRT .9896 CRS -.9991 CST -.9843
 LSA 2987.3 MSA 174.0 SSA 13.3
 EL1 2840.7 EL2 87.3 ALF 12.50

LAUNCH DATE FEB 12 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 475.315

RL 147.69 LAL .00 LOL 143.11 VL 27.128 GAL -.75 AZL 85.83 HCA 227.79 SMA 125.05 ECC .18150 INC 4.1744 V1 30.168
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.193 GAP 7.24 AZP 92.81 TAL 183.39 TAP 51.18 RCA 102.35 APO 147.75 V2 34.902
 RC 150.092 GL 31.79 GP -27.31 ZAL 100.46 ZAP 145.94 ETS 312.99 ZAE 127.35 ETE 202.21 ZAC 128.76 ETC 186.22 CLP-158.81

PLANETOCENTRIC CONIC

C3 14.048 VHL 3.748 DLA 44.76 RAL 24.97 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 5.902 OPA -15.32 RAP 41.15 ECC 1.2312
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.76 17 43 22 4155.15 -32.98 188.32 254.12 57.82 18 52 37 3555.2 -36.96 180.26
 126.24 1 22 39 2755.53 -32.97 80.01 254.11 57.81 2 8 35 2155.5 -36.95 71.95
 53.76 17 43 22 4155.15 -32.98 188.32 254.12 57.82 18 52 37 3555.2 -36.96 180.26
 126.24 1 22 39 2755.53 -32.97 80.01 254.11 57.81 2 8 35 2155.5 -36.95 71.95
 53.76 17 43 22 4155.15 -32.98 188.32 254.12 57.82 18 52 37 3555.2 -36.96 180.26
 126.24 1 22 39 2755.53 -32.97 80.01 254.11 57.81 2 8 35 2155.5 -36.95 71.95

DIFFERENTIAL CORRECTIONS

TDE 1.8108 TRA -.5039 TC3-5.4124 BAU 1.0201
 RDE .3932 RRA .0073 RC3 -.4585 FAU .05654
 FDE 1.1596 FRA .1796 FC3-3.4846 BSP 16110
 BDE 1.8530 BRA .5040 BC3 5.4318 FSP -921

MID-COURSE EXECUTION ACCURACY

SGT 5030.0 SGR 692.5 SG3 274.8
 RRT .8730 RRF .8941 RTF .9430
 SGB 5077.4 R23 .1377 R13 .9441
 SG1 5066.3 S22 335.3 THA 6.88

ORBIT DETERMINATION ACCURACY

ST 2789.8 SR 601.1 SS 906.8
 CRT .9919 CRS -.9980 CST -.9834
 LSA 2989.7 MSA 168.9 SSA 14.7
 EL1 2852.9 EL2 74.8 ALF 12.07

LAUNCH DATE FEB 12 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 481.170

RL 147.69 LAL .00 LOL 143.11 VL 27.087 GAL -.42 AZL 86.13 MCA 230.97 SMA 124.79 ECC .18365 INC 3.8737 V1 30.168
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.174 GAP 7.51 AZP 92.44 TAL 181.88 TAP 52.85 RCA 101.87 APO 147.71 V2 34.914
 RC 152.312 GL 29.88 GP -25.55 ZAL 98.20 ZAP 147.93 ETS 313.11 ZAE 127.79 ETE 200.83 ZAC 130.71 ETC 185.82 CLP-159.92

PLANETOCENTRIC CONIC

C3 13.492 VHL 3.673 DLA 44.03 RAL 29.20 RAD 6567.5 VEL 11.614 PTH 2.03 VHP 5.980 DPA -12.98 RAP 42.22 ECC 1.2220
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.75 18 4 4 4136.25 -32.81 186.48 257.39 58.80 19 13 0 3536.2 -36.67 178.36
 125.25 1 35 42 2756.76 -32.80 80.00 257.38 58.79 2 21 39 2156.8 -36.66 71.89
 54.75 18 4 4 4136.25 -32.81 186.48 257.39 58.80 19 13 0 3536.2 -36.67 178.36
 125.25 1 35 42 2756.76 -32.80 80.00 257.38 58.79 2 21 39 2156.8 -36.66 71.89
 54.75 18 4 4 4136.25 -32.81 186.48 257.39 58.80 19 13 0 3536.2 -36.67 178.36
 125.25 1 35 42 2756.76 -32.80 80.00 257.38 58.79 2 21 39 2156.8 -36.66 71.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.7863 TRA -.3410 TC3-5.7457 BAU 1.0392 SGT 5111.5 SGR 666.4 SG3 270.3 ST 2798.0 SR 586.3 SS 876.3
 RDE .3757 RRA .0223 RC3 -.4269 FAU .05440 RRT .8575 RRF .8732 RTF .9418 CRT .9942 CRS -.9760 CST -.9823
 FDE 1.0797 FRA .2831 FC3-3.4909 BSP 16281 SGB 5154.8 R23 .1207 R13 .9427 LSA 2985.5 MSA 164.7 SSA 16.1
 BOE 1.8254 BRA .3418 BC3 5.7615 FSP -895 SG1 5143.5 SG2 340.8 THA 6.41 EL1 2858.1 EL2 62.0 ALF 11.77

LAUNCH DATE FEB 12 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 487.011

RL 147.69 LAL .00 LOL 143.11 VL 27.046 GAL -.08 AZL 86.40 MCA 234.15 SMA 124.53 ECC .18598 INC 3.5987 V1 30.168
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.156 GAP 7.78 AZP 92.11 TAL 180.35 TAP 54.50 RCA 101.37 APO 147.69 V2 34.926
 RC 154.516 GL 27.99 GP -23.99 ZAL 95.75 ZAP 149.76 ETS 313.13 ZAE 128.14 ETE 199.58 ZAC 132.68 ETC 185.44 CLP-161.01

PLANETOCENTRIC CONIC

C3 13.082 VHL 3.617 DLA 43.30 RAL 33.51 RAD 6567.5 VEL 11.596 PTH 2.03 VHP 6.074 DPA -10.82 RAP 43.42 ECC 1.2153
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.76 18 25 17 4118.84 -32.55 184.73 260.88 59.70 19 33 56 3518.8 -36.30 176.57
 124.24 1 48 53 2760.79 -32.54 80.18 260.87 59.69 2 34 53 2160.8 -36.29 72.02
 55.76 18 25 17 4118.84 -32.55 184.73 260.88 59.70 19 33 56 3518.8 -36.30 176.57
 124.24 1 48 53 2760.79 -32.54 80.18 260.87 59.69 2 34 53 2160.8 -36.29 72.02
 55.76 18 25 17 4118.84 -32.55 184.73 260.88 59.70 19 33 56 3518.8 -36.30 176.57
 124.24 1 48 53 2760.79 -32.54 80.18 260.87 59.69 2 34 53 2160.8 -36.29 72.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.7492 TRA -.1800 TC3-6.0520 BAU 1.0608 SGT 5195.9 SGR 645.0 SG3 265.4 ST 2776.5 SR 571.7 SS 835.5
 RDE .3606 RRA .0337 RC3 -.4014 FAU .05248 RRT .8430 RRF .8514 RTF .9424 CRT .9962 CRS -.9930 CST -.9811
 FDE .9922 FRA .3704 FC3-3.4732 BSP 16577 SGB 5235.7 R23 .0993 R13 .9431 LSA 2950.9 MSA 159.4 SSA 17.6
 BOE 1.7859 BRA .1831 BC3 6.0653 FSP -872 SG1 5224.4 SG2 345.0 THA 6.00 EL1 2834.3 EL2 48.7 ALF 11.60

LAUNCH DATE FEB 12 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 492.835

RL 147.69 LAL .00 LOL 143.11 VL 27.005 GAL .28 AZL 86.66 MCA 237.33 SMA 124.27 ECC .18849 INC 3.3448 V1 30.168
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.138 GAP 8.06 AZP 91.81 TAL 178.81 TAP 56.14 RCA 100.85 APO 147.70 V2 34.938
 RC 156.704 GL 26.12 GP -22.59 ZAL 93.12 ZAP 151.46 ETS 313.03 ZAE 128.43 ETE 198.45 ZAC 134.69 ETC 185.07 CLP-162.08

PLANETOCENTRIC CONIC

C3 12.805 VHL 3.578 DLA 42.54 RAL 37.89 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 6.182 DPA -8.81 RAP 44.75 ECC 1.2107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.82 18 47 3 4102.59 -32.19 183.04 264.58 60.53 19 55 26 3502.6 -35.84 174.86
 123.18 2 2 1 2767.82 -32.18 80.56 264.58 60.52 2 48 9 2167.8 -35.83 72.38
 56.82 18 47 3 4102.59 -32.19 183.04 264.58 60.53 19 55 26 3502.6 -35.84 174.86
 123.18 2 2 1 2767.82 -32.18 80.56 264.58 60.52 2 48 9 2167.8 -35.83 72.38
 56.82 18 47 3 4102.59 -32.19 183.04 264.58 60.53 19 55 26 3502.6 -35.84 174.86
 123.18 2 2 1 2767.82 -32.18 80.56 264.58 60.52 2 48 9 2167.8 -35.83 72.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.7115 TRA .0006 TC3-6.2877 BAU 1.0782 SGT 5268.7 SGR 627.3 SG3 259.0 ST 2743.7 SR 560.2 SS 794.8
 RDE .3493 RRA .0474 RC3 -.3697 FAU .04993 RRT .8241 RRF .8284 RTF .9409 CRT .9979 CRS -.9880 CST -.9788
 FDE .9086 FRA .4674 FC3-3.3750 BSP 16872 SGB 5305.9 R23 .0874 R13 .9415 LSA 2906.6 MSA 158.0 SSA 19.1
 BOE 1.7468 BRA .0474 BC3 6.2986 FSP -862 SG1 5294.2 SG2 353.6 THA 5.63 EL1 2800.1 EL2 35.8 ALF 11.52

LAUNCH DATE FEB 12 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 498.643

RL 147.69 LAL .00 LOL 143.11 VL 26.964 GAL .65 AZL 86.89 MCA 240.51 SMA 124.02 ECC .19121 INC 3.1082 V1 30.168
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.120 GAP 8.35 AZP 91.53 TAL 177.26 TAP 57.77 RCA 100.30 APO 147.73 V2 34.951
 RC 158.875 GL 24.27 GP -21.34 ZAL 90.33 ZAP 153.03 ETS 312.81 ZAE 128.66 ETE 197.45 ZAC 136.72 ETC 184.72 CLP-163.12

PLANETOCENTRIC CONIC

C3 12.654 VHL 3.557 DLA 41.74 RAL 42.31 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 6.302 DPA -6.93 RAP 46.18 ECC 1.2082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.95 19 9 27 4087.04 -31.72 181.37 268.47 61.31 20 17 34 3487.0 -35.28 173.19
 122.05 2 14 54 2778.29 -31.71 81.17 268.46 61.30 3 1 12 2178.3 -35.27 72.99
 57.95 19 9 27 4087.04 -31.72 181.37 268.47 61.31 20 17 34 3487.0 -35.28 173.19
 122.05 2 14 54 2778.29 -31.71 81.17 268.46 61.30 3 1 12 2178.3 -35.27 72.99
 57.95 19 9 27 4087.04 -31.72 181.37 268.47 61.31 20 17 34 3487.0 -35.28 173.19
 122.05 2 14 54 2778.29 -31.71 81.17 268.46 61.30 3 1 12 2178.3 -35.27 72.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.6680 TRA .1865 TC3-6.4602 BAU 1.0944 SGT 5338.9 SGR 614.2 SG3 252.3 ST 2692.9 SR 550.9 SS 753.0
 RDE .3412 RRA .0592 RC3 -.3413 FAU .04744 RRT .8062 RRF .8060 RTF .9412 CRT .9990 CRS -.9809 CST -.9766
 FDE .8282 FRA .5519 FC3-3.2455 BSP 17045 SGB 5374.1 R23 .0739 R13 .9417 LSA 2845.6 MSA 156.1 SSA 20.5
 BOE 1.7025 BRA .1957 BC3 6.4692 FSP -833 SG1 5361.9 SG2 361.9 THA 5.32 EL1 2748.6 EL2 24.5 ALF 11.55

LAUNCH DATE FEB 12 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 504.433

RL 147.69 LAL .00 LOL 143.11 VL 26.924 GAL 1.03 AZL 87.11 HCA 243.70 SMA 123.76 ECC .19414 INC 2.8858 V1 30.168
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.102 GAP 8.65 AZP 91.28 TAL 175.70 TAP 59.40 RCA 99.74 APO 147.79 V2 34.964
 RC 161.027 GL 22.42 GP -20.22 ZAL 87.40 ZAP 154.51 ETS 312.46 ZAE 128.85 ETE 196.54 ZAC 138.78 ETC 184.37 CLP-164.14

PLANETOCENTRIC CONIC

C3 12.626 VHL 3.553 DLA 40.88 RAL 46.75 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.435 DPA -5.18 RAP 47.71 ECC 1.2078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.18 19 32 31 4071.75 -31.14 179.68 272.49 62.05 20 40 23 3471.8 -34.61 171.51
 120.82 2 27 14 2792.63 -31.13 82.04 272.49 62.04 3 13 47 2192.6 -34.60 73.87
 59.18 19 32 31 4071.75 -31.14 179.68 272.49 62.05 20 40 23 3471.8 -34.61 171.51
 120.82 2 27 14 2792.63 -31.13 82.04 272.49 62.04 3 13 47 2192.6 -34.60 73.87
 59.18 19 32 31 4071.75 -31.14 179.68 272.49 62.05 20 40 23 3471.8 -34.61 171.51
 120.82 2 27 14 2792.63 -31.13 82.04 272.49 62.04 3 13 47 2192.6 -34.60 73.87

DIFFERENTIAL CORRECTIONS

TDE 1.6108 TRA .3785 TC3-6.5789 BAU 1.1118
 RDE .3343 RRA .0705 RC3 -.3165 FAU .04508
 FDE .7440 FRA .6296 FC3-3.0911 BSP 17312
 BDE 1.6451 BRA .3850 BC3 6.5865 FSP -812

MID-COURSE EXECUTION ACCURACY

SGT 5409.0 SGR 603.2 SG3 245.4
 RRT .7887 RRF .7838 RTF .9419
 SGB 5442.5 R23 .0609 R13 .9422
 SG1 5429.9 SG2 369.4 THA 5.05

ORBIT DETERMINATION ACCURACY

ST 2612.4 SR 541.0 SS 704.6
 CRT .9991 CRS -.9705 CST -.9735
 LSA 2754.8 MSA 156.3 SSA 21.8
 EL1 2667.7 EL2 22.4 ALF 11.69

LAUNCH DATE FEB 12 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 510.204

RL 147.69 LAL .00 LOL 143.11 VL 26.883 GAL 1.44 AZL 87.32 HCA 246.89 SMA 123.51 ECC .19730 INC 2.6752 V1 30.168
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.085 GAP 8.95 AZP 91.05 TAL 174.14 TAP 61.02 RCA 99.14 APO 147.88 V2 34.977
 RC 163.161 GL 20.59 GP -19.22 ZAL 84.38 ZAP 155.88 ETS 311.97 ZAE 129.00 ETE 195.73 ZAC 140.87 ETC 184.02 CLP-165.14

PLANETOCENTRIC CONIC

C3 12.722 VHL 3.567 DLA 39.96 RAL 51.17 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.579 DPA -3.54 RAP 49.33 ECC 1.2094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.54 19 56 16 4056.28 -30.45 177.94 276.64 62.76 21 3 52 3456.3 -33.83 169.79
 119.46 2 38 48 2811.34 -30.43 83.21 276.63 62.75 3 25 39 2211.3 -33.82 75.06
 60.54 19 56 16 4056.28 -30.45 177.94 276.64 62.76 21 3 52 3456.3 -33.83 169.79
 119.46 2 38 48 2811.34 -30.43 83.21 276.63 62.75 3 25 39 2211.3 -33.82 75.06
 60.54 19 56 16 4056.28 -30.45 177.94 276.64 62.76 21 3 52 3456.3 -33.83 169.79
 119.46 2 38 48 2811.34 -30.43 83.21 276.63 62.75 3 25 39 2211.3 -33.82 75.06

DIFFERENTIAL CORRECTIONS

TDE 1.5431 TRA .5811 TC3-6.6244 BAU 1.1278
 RDE .3292 RRA .0823 RC3 -.2926 FAU .04267
 FDE .6607 FRA .7044 FC3-2.9040 BSP 17549
 BDE 1.5778 BRA .5869 BC3 6.6309 FSP -790

MID-COURSE EXECUTION ACCURACY

SGT 5473.4 SGR 594.2 SG3 238.1
 RRT .7710 RRF .7623 RTF .9424
 SGB 5505.6 R23 .0505 R13 .9427
 SG1 5492.7 SG2 377.0 THA 4.81

ORBIT DETERMINATION ACCURACY

ST 2509.6 SR 531.4 SS 654.7
 CRT .9978 CRS -.9552 CST -.9693
 LSA 2642.6 MSA 159.7 SSA 22.8
 EL1 2565.0 EL2 34.4 ALF 11.93

LAUNCH DATE FEB 12 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 515.953

RL 147.69 LAL .00 LOL 143.11 VL 26.843 GAL 1.86 AZL 87.53 HCA 250.08 SMA 123.26 ECC .20071 INC 2.4742 V1 30.168
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.068 GAP 9.27 AZP 90.84 TAL 172.56 TAP 62.64 RCA 98.52 APO 148.00 V2 34.990
 RC 165.276 GL 18.78 GP -18.31 ZAL 81.28 ZAP 157.17 ETS 311.33 ZAE 129.13 ETE 195.00 ZAC 142.98 ETC 183.66 CLP-166.12

PLANETOCENTRIC CONIC

C3 12.945 VHL 3.598 DLA 38.97 RAL 55.55 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 6.734 DPA -2.01 RAP 51.03 ECC 1.2130
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.03 20 20 42 4040.16 -29.64 176.11 280.87 63.45 21 28 2 3440.2 -32.94 168.00
 117.97 2 49 16 2834.94 -29.62 84.72 280.86 63.43 3 36 31 2234.9 -32.93 76.61
 62.03 20 20 42 4040.16 -29.64 176.11 280.87 63.45 21 28 2 3440.2 -32.94 168.00
 117.97 2 49 16 2834.94 -29.62 84.72 280.86 63.43 3 36 31 2234.9 -32.93 76.61
 62.03 20 20 42 4040.16 -29.64 176.11 280.87 63.45 21 28 2 3440.2 -32.94 168.00
 117.97 2 49 16 2834.94 -29.62 84.72 280.86 63.43 3 36 31 2234.9 -32.93 76.61

DIFFERENTIAL CORRECTIONS

TDE 1.4650 TRA .7927 TC3-6.6000 BAU 1.1432
 RDE .3258 RRA .0941 RC3 -.2708 FAU .04034
 FDE .5796 FRA .7736 FC3-2.6976 BSP 17793
 BDE 1.5008 BRA .7983 BC3 6.6055 FSP -768

MID-COURSE EXECUTION ACCURACY

SGT 5534.8 SGR 586.8 SG3 230.7
 RRT .7540 RRF .7420 RTF .9435
 SGB 5565.8 R23 .0412 R13 .9438
 SG1 5552.6 SG2 384.2 THA 4.59

ORBIT DETERMINATION ACCURACY

ST 2387.5 SR 522.1 SS 605.0
 CRT .9943 CRS -.9334 CST -.9640
 LSA 2512.1 MSA 166.3 SSA 23.4
 EL1 2443.3 EL2 54.2 ALF 12.27

LAUNCH DATE FEB 12 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 521.679

RL 147.69 LAL .00 LOL 143.11 VL 26.802 GAL 2.30 AZL 87.72 HCA 253.27 SMA 123.01 ECC .20440 INC 2.2811 V1 30.168
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.051 GAP 9.60 AZP 90.66 TAL 170.99 TAP 64.26 RCA 97.87 APO 148.16 V2 35.003
 RC 167.370 GL 16.99 GP -17.49 ZAL 78.14 ZAP 158.38 ETS 310.55 ZAE 129.24 ETE 194.35 ZAC 145.12 ETC 183.28 CLP-167.08

PLANETOCENTRIC CONIC

C3 13.302 VHL 3.647 DLA 37.91 RAL 59.84 RAD 6567.5 VEL 11.606 PTH 2.03 VHP 6.901 DPA -.56 RAP 52.79 ECC 1.2189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.67 20 45 52 4022.85 -28.71 174.16 285.15 64.11 21 52 55 3422.9 -31.94 166.09
 116.33 2 58 22 2863.99 -28.70 86.60 285.15 64.09 3 46 6 2264.0 -31.93 78.54
 63.67 20 45 52 4022.85 -28.71 174.16 285.15 64.11 21 52 55 3422.9 -31.94 166.09
 116.33 2 58 22 2863.99 -28.70 86.60 285.15 64.09 3 46 6 2264.0 -31.93 78.54
 63.67 20 45 52 4022.85 -28.71 174.16 285.15 64.11 21 52 55 3422.9 -31.94 166.09
 116.33 2 58 22 2863.99 -28.70 86.60 285.15 64.09 3 46 6 2264.0 -31.93 78.54

DIFFERENTIAL CORRECTIONS

TDE 1.3770 TRA 1.0150 TC3-6.5022 BAU 1.1572
 RDE .3237 RRA .1064 RC3 -.2500 FAU .03801
 FDE .5008 FRA .8390 FC3-2.4738 BSP 18012
 BDE 1.4146 BRA 1.0206 BC3 6.5070 FSP -746

MID-COURSE EXECUTION ACCURACY

SGT 5591.0 SGR 580.3 SG3 223.1
 RRT .7376 RRF .7228 RTF .9447
 SGB 5621.1 R23 .0335 R13 .9449
 SG1 5607.5 SG2 390.7 THA 4.40

ORBIT DETERMINATION ACCURACY

ST 2251.1 SR 512.6 SS 557.1
 CRT .9876 CRS -.9025 CST -.9572
 LSA 2368.2 MSA 177.4 SSA 23.5
 EL1 2307.4 EL2 78.6 ALF 12.69

LAUNCH DATE FEB 12 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 527.379

RL 147.69 LAL .00 LOL 143.11 VL 26.762 GAL 2.76 AZL 87.91 MCA 256.47 SMA 122.77 ECC .20838 INC 2.0942 V1 30.168
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.035 GAP 9.94 AZP 90.49 TAL 169.41 TAP 65.88 RCA 97.19 APO 148.35 V2 35.016
 RC 169.445 GL 15.24 GP -16.75 ZAL 74.99 ZAP 159.51 ETS 309.59 ZAE 129.34 ETE 193.76 ZAC 147.27 ETC 182.87 CLP-168.03

PLANETOCENTRIC CONIC

C3 13.801 VHL 3.715 OLA 36.79 RAL 64.03 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 7.079 DPA .80 RAP 54.62 ECC 1.2271
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.47 21 11 49 4003.79 -27.69 172.05 289.47 64.75 22 18 33 3403.8 -30.84 164.04
 114.53 3 5 48 2899.12 -27.68 88.91 289.46 64.74 3 54 7 2299.1 -30.83 80.89
 65.47 21 11 49 4003.79 -27.69 172.05 289.47 64.75 22 18 33 3403.8 -30.84 164.04
 114.53 3 5 48 2899.12 -27.68 88.91 289.46 64.74 3 54 7 2299.1 -30.83 80.89
 65.47 21 11 49 4003.79 -27.69 172.05 289.47 64.75 22 18 33 3403.8 -30.84 164.04
 114.53 3 5 48 2899.12 -27.68 88.91 289.46 64.74 3 54 7 2299.1 -30.83 80.89

DIFFERENTIAL CORRECTIONS

TOE 1.2814 TRA 1.2521 TC3-6.3278 BAU 1.1683
 ROE .3231 RRA .1196 RC3 -.2293 FAU .03563
 FDE .4260 FRA .9038 FC3-2.2352 BSP 18149
 BOE 1.3215 BRA 1.2578 BC3 6.3319 FSP -719

MID-COURSE EXECUTION ACCURACY

SGT 5641.3 SGR 574.9 SG3 215.5
 RRT .7220 RRF .7054 RTF .9456
 SGB 5670.5 R23 .0279 R13 .9458
 SG1 5656.6 SG2 396.7 THA 4.23

ORBIT DETERMINATION ACCURACY

ST 2109.3 SR 503.2 SS 514.2
 CRT .9758 CRS -.8599 CST -.9492
 LSA 2220.0 MSA 193.8 SSA 23.2
 EL1 2165.8 EL2 107.1 ALF 13.14

LAUNCH DATE FEB 12 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 533.050

RL 147.69 LAL .00 LOL 143.11 VL 26.722 GAL 3.24 AZL 88.09 MCA 259.67 SMA 122.53 ECC .21267 INC 1.9121 V1 30.168
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.019 GAP 10.30 AZP 90.34 TAL 167.83 TAP 67.51 RCA 96.47 APO 148.58 V2 35.030
 RC 171.498 GL 13.54 GP -16.08 ZAL 71.84 ZAP 160.58 ETS 308.45 ZAE 129.42 ETE 193.23 ZAC 149.44 ETC 182.43 CLP-168.96

PLANETOCENTRIC CONIC

C3 14.455 VHL 3.802 OLA 35.61 RAL 68.07 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 7.269 DPA 2.08 RAP 56.51 ECC 1.2379
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.45 21 38 40 3982.12 -26.57 169.73 293.79 65.37 22 45 2 3382.1 -29.66 161.78
 112.55 3 11 13 2941.19 -26.56 91.70 293.79 65.36 4 0 14 2341.2 -29.65 83.74
 67.45 21 38 40 3982.12 -26.57 169.73 293.79 65.37 22 45 2 3382.1 -29.66 161.78
 112.55 3 11 13 2941.19 -26.56 91.70 293.79 65.36 4 0 14 2341.2 -29.65 83.74
 67.45 21 38 40 3982.12 -26.57 169.73 293.79 65.37 22 45 2 3382.1 -29.66 161.78
 112.55 3 11 13 2941.19 -26.56 91.70 293.79 65.36 4 0 14 2341.2 -29.65 83.74

DIFFERENTIAL CORRECTIONS

TOE 1.1734 TRA 1.4974 TC3-6.1024 BAU 1.1800
 ROE .3233 RRA .1332 RC3 -.2108 FAU .03341
 FDE .3525 FRA .9636 FC3-2.0012 BSP 18356
 BOE 1.2171 BRA 1.5033 BC3 6.1061 FSP -698

MID-COURSE EXECUTION ACCURACY

SGT 5688.8 SGR 569.2 SG3 207.9
 RRT .7073 RRF .6890 RTF .9468
 SGB 5717.2 R23 .0226 R13 .9469
 SG1 5703.1 SG2 401.4 THA 4.07

ORBIT DETERMINATION ACCURACY

ST 1959.4 SR 492.9 SS 474.7
 CRT .9567 CRS -.8018 CST -.9397
 LSA 2064.2 MSA 215.4 SSA 22.5
 EL1 2015.7 EL2 139.5 ALF 13.60

LAUNCH DATE FEB 12 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 538.689

RL 147.69 LAL .00 LOL 143.11 VL 26.683 GAL 3.74 AZL 88.27 MCA 262.87 SMA 122.29 ECC .21731 INC 1.7335 V1 30.168
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.003 GAP 10.67 AZP 90.21 TAL 166.26 TAP 69.13 RCA 95.71 APO 148.86 V2 35.043
 RC 173.532 GL 11.89 GP -15.46 ZAL 68.74 ZAP 161.59 ETS 307.13 ZAE 129.49 ETE 192.75 ZAC 151.63 ETC 181.93 CLP-169.88

PLANETOCENTRIC CONIC

C3 15.278 VHL 3.909 OLA 34.39 RAL 71.96 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 7.473 DPA 3.28 RAP 58.46 ECC 1.2514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.61 22 6 39 3956.85 -25.38 167.13 298.10 65.97 23 12 35 3356.9 -28.40 159.24
 110.39 3 14 14 2991.18 -25.37 95.04 298.10 65.96 4 4 6 2391.2 -28.39 87.15
 69.61 22 6 39 3956.85 -25.38 167.13 298.10 65.97 23 12 35 3356.9 -28.40 159.24
 110.39 3 14 14 2991.18 -25.37 95.04 298.10 65.96 4 4 6 2391.2 -28.39 87.15
 69.61 22 6 39 3956.85 -25.38 167.13 298.10 65.97 23 12 35 3356.9 -28.40 159.24
 110.39 3 14 14 2991.18 -25.37 95.04 298.10 65.96 4 4 6 2391.2 -28.39 87.15

DIFFERENTIAL CORRECTIONS

TOE 1.0567 TRA 1.7555 TC3-5.8238 BAU 1.1902
 ROE .3246 RRA .1474 RC3 -.1930 FAU .03124
 FDE .2826 FRA 1.0213 FC3-1.7703 BSP 18538
 BOE 1.1055 BRA 1.7617 BC3 5.8270 FSP -676

MID-COURSE EXECUTION ACCURACY

SGT 5731.6 SGR 563.6 SG3 200.4
 RRT .6935 RRF .6739 RTF .9479
 SGB 5759.2 R23 .0184 R13 .9480
 SG1 5745.0 SG2 405.2 THA 3.92

ORBIT DETERMINATION ACCURACY

ST 1814.7 SR 482.3 SS 442.4
 CRT .9268 CRS -.7264 CST -.9301
 LSA 1913.8 MSA 242.2 SSA 21.5
 EL1 1869.5 EL2 175.8 ALF 13.96

LAUNCH DATE FEB 12 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 544.292

RL 147.69 LAL .00 LOL 143.11 VL 26.643 GAL 4.27 AZL 88.44 MCA 266.08 SMA 122.05 ECC .22234 INC 1.5573 V1 30.168
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.987 GAP 11.07 AZP 90.11 TAL 164.69 TAP 70.77 RCA 94.92 APO 149.19 V2 35.056
 RC 175.544 GL 10.31 GP -14.91 ZAL 65.70 ZAP 162.53 ETS 305.58 ZAE 129.55 ETE 192.31 ZAC 153.83 ETC 181.36 CLP-170.79

PLANETOCENTRIC CONIC

C3 16.289 VHL 4.036 OLA 33.15 RAL 75.66 RAD 6567.7 VEL 11.733 PTH 2.07 VHP 7.690 DPA 4.41 RAP 60.45 ECC 1.2681
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.01 22 36 7 3926.42 -24.12 164.16 302.39 66.55 23 41 33 3326.4 -27.08 156.34
 107.99 3 14 21 3050.63 -24.11 99.05 302.38 66.53 4 5 12 2450.6 -27.07 91.22
 72.01 22 36 7 3926.42 -24.12 164.16 302.39 66.55 23 41 33 3326.4 -27.08 156.34
 107.99 3 14 21 3050.63 -24.11 99.05 302.38 66.53 4 5 12 2450.6 -27.07 91.22
 110.00 4 30 23 2817.22 -29.63 83.30 304.72 72.13 5 17 20 2217.2 -31.79 74.75
 110.00 2 23 11 3207.82 -18.83 108.42 299.58 60.93 3 16 39 2607.8 -22.56 101.27

DIFFERENTIAL CORRECTIONS

TOE .9325 TRA 2.0268 TC3-5.5024 BAU 1.1989
 ROE .3268 RRA .1623 RC3 -.1759 FAU .02912
 FDE .2165 FRA 1.0772 FC3-1.5479 BSP 18709
 BOE .9881 BRA 2.0333 BC3 5.5052 FSP -655

MID-COURSE EXECUTION ACCURACY

SGT 5769.7 SGR 557.8 SG3 193.0
 RRT .6807 RRF .6601 RTF .9490
 SGB 5796.6 R23 .0149 R13 .9491
 SG1 5782.2 SG2 407.7 THA 3.78

ORBIT DETERMINATION ACCURACY

ST 1683.1 SR 471.2 SS 418.1
 CRT .8823 CRS -.6338 CST -.9220
 LSA 1776.2 MSA 273.2 SSA 20.4
 EL1 1734.6 EL2 215.2 ALF 14.10

LAUNCH DATE FEB 12 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 549.854

RL 147.69 LAL .00 LOL 143.11 VL 26.604 GAL 4.83 AZL 88.62 HCA 269.29 SMA 121.82 ECC .22777 INC 1.3824 V1 30.168
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.971 GAP 11.48 AZP 90.02 TAL 163.12 TAP 72.41 RCA 94.07 APO 149.57 V2 35.069
 RC 177.535 GL 8.79 GP -14.40 ZAL 62.74 ZAP 163.42 ETS 303.82 ZAE 129.60 ETE 191.92 ZAC 156.05 ETC 180.70 CLP-171.69

PLANETOCENTRIC CONIC

C3 17.509 VHL 4.184 DLA 31.89 RAL 79.18 RAD 6567.7 VEL 11.785 PTH 2.08 VHP 7.922 DPA 5.47 RAP 62.49 ECC 1.2882
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.69 23 7 45 3888.40 -22.82 160.64 306.64 67.10 24 12 33 3288.4 -25.72 152.88
 105.31 3 10 48 3121.88 -22.81 103.90 306.64 67.09 4 2 50 2521.9 -25.71 96.13
 74.69 23 7 45 3888.40 -22.82 160.64 306.64 67.10 24 12 33 3288.4 -25.72 152.88
 105.31 3 10 48 3121.88 -22.81 103.90 306.64 67.09 4 2 50 2521.9 -25.71 96.13
 110.00 5 15 10 2736.64 -31.18 77.53 309.84 75.22 6 0 46 2136.6 -32.89 68.73
 110.00 2 6 29 3321.64 -14.94 114.95 302.40 58.89 3 1 51 2721.6 -18.95 108.13

DIFFERENTIAL CORRECTIONS

TOE .8048 TRA 2.3159 TC3-5.1400 BAU 1.2037
 RDE .3302 RRA .1783 RC3 -.1587 FAU .02698
 FDE .1561 FRA 1.1336 FC3-1.3338 BSP 18780
 BDE .8699 BRA 2.3227 BC3 5.1424 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 5802.2 SGR 552.0 SG3 186.0
 RRT .6691 RRF .6484 RTF .9499
 SGB 5828.4 R23 .0129 R13 .9500
 SG1 5814.0 SG2 409.4 THA 3.66

ORBIT DETERMINATION ACCURACY

ST 1576.9 SR 460.3 SS 403.5
 CRT .8203 CRS -.5309 CST -.9190
 LSA 1663.5 MSA 305.9 SSA 19.4
 EL1 1622.6 EL2 255.8 ALF 13.82

LAUNCH DATE FEB 12 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 555.370

RL 147.69 LAL .00 LOL 143.11 VL 26.565 GAL 5.42 AZL 88.79 HCA 272.50 SMA 121.59 ECC .23366 INC 1.2075 V1 30.168
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.956 GAP 11.92 AZP 89.95 TAL 161.57 TAP 74.06 RCA 93.18 APO 150.00 V2 35.083
 RC 179.506 GL 7.35 GP -13.94 ZAL 59.88 ZAP 164.25 ETS 301.80 ZAE 129.64 ETE 191.56 ZAC 158.27 ETC 179.90 CLP-172.59

PLANETOCENTRIC CONIC

C3 18.965 VHL 4.355 DLA 30.63 RAL 82.51 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 8.171 DPA 6.46 RAP 64.57 ECC 1.3121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.81 23 43 0 3837.82 -21.49 156.23 310.86 67.63 24 46 58 3237.8 -24.33 148.53
 102.19 3 2 4 3209.82 -21.47 109.93 310.85 67.62 3 55 34 2609.8 -24.32 102.23
 77.81 23 43 0 3837.82 -21.49 156.23 310.86 67.63 24 46 58 3237.8 -24.33 148.53
 102.19 3 2 4 3209.82 -21.47 109.93 310.85 67.62 3 55 34 2609.8 -24.32 102.23
 110.00 5 51 8 2681.49 -32.07 73.48 314.57 77.46 6 35 50 2081.5 -33.46 64.52
 110.00 1 57 3 3414.15 -11.62 120.07 305.54 57.63 2 53 57 2814.1 -15.81 113.47

DIFFERENTIAL CORRECTIONS

TOE .6672 TRA 2.6161 TC3-4.7657 BAU 1.2089
 RDE .3341 RRA .1944 RC3 -.1431 FAU .02500
 FDE .0973 FRA 1.1867 FC3-1.1410 BSP 18937
 BDE .7461 BRA 2.6233 BC3 4.7678 FSP -610

MID-COURSE EXECUTION ACCURACY

SGT 5830.8 SGR 545.1 SG3 179.1
 RRT .6583 RRF .6369 RTF .9511
 SGB 5856.2 R23 .0102 R13 .9512
 SG1 5841.9 SG2 409.5 THA 3.54

ORBIT DETERMINATION ACCURACY

ST 1491.9 SR 448.5 SS 395.3
 CRT .7372 CRS -.4179 CST -.9208
 LSA 1571.2 MSA 338.2 SSA 18.3
 EL1 1529.6 EL2 295.6 ALF 12.99

LAUNCH DATE FEB 12 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 560.833

RL 147.69 LAL .00 LOL 143.11 VL 26.527 GAL 6.04 AZL 88.97 HCA 275.71 SMA 121.36 ECC .24005 INC 1.0316 V1 30.168
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.940 GAP 12.39 AZP 89.90 TAL 160.03 TAP 75.73 RCA 92.23 APO 150.50 V2 35.095
 RC 181.455 GL 5.99 GP -13.51 ZAL 57.13 ZAP 165.02 ETS 299.50 ZAE 129.67 ETE 191.23 ZAC 160.49 ETC 178.93 CLP-173.48

PLANETOCENTRIC CONIC

C3 20.690 VHL 4.549 DLA 29.38 RAL 85.64 RAD 6567.8 VEL 11.919 PTH 2.12 VHP 8.438 DPA 7.39 RAP 66.69 ECC 1.3405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.82 0 29 51 3761.40 -20.14 149.96 315.02 68.14 1 32 33 3161.4 -22.93 142.31
 98.18 2 44 7 3327.59 -20.12 118.10 315.02 68.13 3 39 35 2727.6 -22.91 110.46
 100.00 3 44 50 3133.17 -24.00 105.23 316.55 71.62 4 37 3 2533.2 -26.28 97.18
 100.00 2 11 50 3431.05 -16.36 124.03 313.28 64.63 3 9 1 2831.1 -19.64 116.78
 110.00 6 22 14 2640.03 -32.64 70.38 319.10 79.22 7 6 14 2040.0 -33.78 61.33
 110.00 1 50 55 3496.96 -8.57 124.53 308.81 56.78 2 49 12 2897.0 -12.88 118.09

DIFFERENTIAL CORRECTIONS

TOE .5238 TRA 2.9325 TC3-4.3791 BAU 1.2118
 RDE .3387 RRA .2112 RC3 -.1281 FAU .02307
 FDE .0423 FRA 1.2395 FC3 -.9654 BSP 19072
 BDE .6238 BRA 2.9401 BC3 4.3810 FSP -590

MID-COURSE EXECUTION ACCURACY

SGT 5854.6 SGR 537.4 SG3 172.5
 RRT .6483 RRF .6265 RTF .9523
 SGB 5879.2 R23 .0080 R13 .9524
 SG1 5865.0 SG2 408.5 THA 3.42

ORBIT DETERMINATION ACCURACY

ST 1437.7 SR 436.4 SS 394.3
 CRT .6350 CRS -.3054 CST -.9285
 LSA 1509.5 MSA 366.1 SSA 17.3
 EL1 1465.6 EL2 330.7 ALF 11.50

LAUNCH DATE FEB 12 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 566.234

RL 147.69 LAL .00 LOL 143.11 VL 26.489 GAL 6.70 AZL 89.15 HCA 278.92 SMA 121.14 ECC .24700 INC .8536 V1 30.168
 RP 107.94 LAP -.84 LOP 62.03 VP 36.925 GAP 12.89 AZP 89.87 TAL 158.50 TAP 77.42 RCA 91.22 APO 151.06 V2 35.108
 RC 183.384 GL 4.72 GP -13.12 ZAL 54.51 ZAP 165.74 ETS 296.91 ZAE 129.70 ETE 190.92 ZAC 162.71 ETC 177.72 CLP-174.37

PLANETOCENTRIC CONIC

C3 22.720 VHL 4.767 DLA 28.15 RAL 88.57 RAD 6567.9 VEL 12.004 PTH 2.14 VHP 8.725 DPA 8.25 RAP 68.84 ECC 1.3739
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 22 3480.56 -20.94 129.66 320.00 70.49 3 13 22 2880.6 -23.41 121.86
 90.00 1 22 2 3653.61 -16.63 140.52 318.22 66.75 2 22 56 3053.6 -19.64 133.14
 100.00 4 35 28 3028.87 -26.05 98.16 321.74 74.80 5 25 57 2428.9 -27.88 89.84
 100.00 1 44 37 3580.54 -11.80 132.79 315.85 62.34 2 44 17 2980.5 -15.41 125.87
 110.00 6 49 53 2608.13 -33.02 67.97 323.49 80.60 7 33 21 2008.1 -33.96 58.86
 110.00 1 46 41 3574.04 -5.67 128.62 312.16 56.23 2 46 15 2974.0 -10.07 122.29

DIFFERENTIAL CORRECTIONS

TOE .3754 TRA 3.2667 TC3-3.9891 BAU 1.2122
 RDE .3442 RRA .2285 RC3 -.1137 FAU .02121
 FDE -.0089 FRA 1.2923 FC3 -.8081 BSP 19190
 BDE .5093 BRA 3.2747 BC3 3.9907 FSP -570

MID-COURSE EXECUTION ACCURACY

SGT 5873.7 SGR 529.1 SG3 166.1
 RRT .6391 RRF .6171 RTF .9537
 SGB 5897.4 R23 .0061 R13 .9537
 SG1 5883.4 SG2 406.2 THA 3.31

ORBIT DETERMINATION ACCURACY

ST 1414.8 SR 424.1 SS 398.9
 CRT .5198 CRS -.2007 CST -.9403
 LSA 1480.4 MSA 386.0 SSA 16.4
 EL1 1433.1 EL2 357.7 ALF 9.45

LAUNCH DATE FEB 12 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 571.566

RL 147.69 LAL .00 LOL 143.11 VL 26.451 GAL 7.40 AZL 89.33 MCA 282.14 SMA 120.92 ECC .25457 INC .6723 V1 30.168
 RP 107.90 LAP -.66 LOP 65.24 VP 36.910 GAP 13.42 AZP 89.86 TAL 156.99 TAP 79.13 RCA 90.14 APO 151.70 V2 35.120
 RC 185.291 GL 3.52 GP -12.77 ZAL 52.01 ZAP 166.39 ETS 294.01 ZAE 129.70 ETE 190.64 ZAC 164.92 ETC 176.15 CLP-175.26

PLANETOCENTRIC CONIC

C3 25.104 VHL 5.010 DLA 26.96 RAL 91.32 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 9.035 DPA 9.06 RAP 71.01 ECC 1.4131
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 16 29 3340.32 -23.84 120.40 325.48 74.25 4 12 10 2740.3 -25.77 112.26
 90.00 0 42 48 3842.71 -11.23 151.78 320.43 63.83 1 46 51 3242.7 -14.66 144.78
 100.00 5 11 45 2968.75 -27.06 93.98 326.40 76.78 6 1 14 2368.7 -28.61 85.52
 100.00 1 30 14 3689.51 -8.29 138.97 318.88 61.18 2 31 43 3089.5 -12.07 132.23
 110.00 7 14 47 2583.76 -33.27 66.11 327.77 81.67 7 57 51 1983.8 -34.07 56.96
 110.00 1 43 41 3647.27 -2.89 132.46 315.56 55.92 2 44 28 3047.3 -7.34 126.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .2257 TRA 3.5976 TC3-3.5976 BAU 1.2079 SGT 5888.2 SGR 520.1 SG3 160.2 ST 1422.3 SR 412.0 SS 408.0
 RDE .3506 RRA .2463 RC3 -.0995 FAU .01933 RRT .6308 RRF .6092 RTF .9551 CRT .4027 CRS -.1109 CST -.9535
 FDE -.0552 FRA 1.3469 FC3 -.6666 BSP 19209 SGB 5911.2 R23 .0050 R13 .9551 LSA 1483.9 MSA 396.1 SSA 15.6
 BDE .4169 BRA 3.6315 BC3 3.5990 FSP -548 SG1 5897.4 SG2 402.9 THA 3.20 EL1 1432.7 EL2 374.3 ALF 7.14

LAUNCH DATE FEB 12 1969

FLIGHT TIME 200.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 576.815

RL 147.69 LAL .00 LOL 143.11 VL 26.414 GAL 8.15 AZL 89.51 MCA 285.36 SMA 120.70 ECC .26282 INC .4864 V1 30.168
 RP 107.87 LAP -.47 LOP 68.46 VP 36.895 GAP 13.99 AZP 89.87 TAL 155.51 TAP 80.87 RCA 88.98 APO 152.43 V2 35.132
 RC 187.175 GL 2.41 GP -12.44 ZAL 49.66 ZAP 166.99 ETS 290.76 ZAE 129.70 ETE 190.38 ZAC 167.12 ETC 174.04 CLP-176.16

PLANETOCENTRIC CONIC

C3 27.896 VHL 5.282 DLA 25.81 RAL 93.88 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 9.369 DPA 9.80 RAP 73.21 ECC 1.4591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 18 3273.89 -24.99 115.88 330.16 76.24 4 48 51 2673.9 -26.64 107.60
 90.00 0 25 25 3961.42 -7.59 158.59 323.39 62.64 1 31 27 3361.4 -11.19 151.77
 100.00 5 41 47 2927.34 -27.67 91.05 330.83 78.20 6 30 34 2327.3 -29.01 82.51
 100.00 1 20 37 3783.20 -5.18 144.19 322.07 60.52 2 23 40 3183.2 -9.07 137.56
 110.00 7 37 22 2565.68 -33.44 64.73 331.97 82.47 8 20 8 1965.7 -34.12 55.55
 110.00 1 41 31 3717.63 -2.20 136.13 318.98 55.82 2 43 28 3117.6 -4.68 129.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .0664 TRA 3.9961 TC3-3.2235 BAU 1.2026 SGT 5898.0 SGR 509.7 SG3 154.4 ST 1450.0 SR 399.2 SS 419.5
 RDE .3573 RRA .2640 RC3 -.0866 FAU .01760 RRT .6225 RRF .6011 RTF .9567 CRT .2869 CRS -.0296 CST -.9653
 FDE -.1005 FRA 1.4005 FC3 -.5460 BSP 19314 SGB 5920.0 R23 .0035 R13 .9568 LSA 1509.8 MSA 397.4 SSA 14.8
 BDE .3634 BRA 4.0048 BC3 3.2247 FSP -530 SG1 5906.6 SG2 398.3 THA 3.09 EL1 1454.8 EL2 381.1 ALF 4.85

LAUNCH DATE FEB 12 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 581.968

RL 147.69 LAL .00 LOL 143.11 VL 26.378 GAL 8.94 AZL 89.71 MCA 288.58 SMA 120.49 ECC .27183 INC .2946 V1 30.168
 RP 107.83 LAP -.28 LOP 71.68 VP 36.880 GAP 14.60 AZP 89.91 TAL 154.06 TAP 82.63 RCA 87.74 APO 153.24 V2 35.144
 RC 189.037 GL 1.38 GP -12.14 ZAL 47.44 ZAP 167.51 ETS 287.15 ZAE 129.67 ETE 190.14 ZAC 169.29 ETC 171.07 CLP-177.07

PLANETOCENTRIC CONIC

C3 31.166 VHL 5.583 DLA 24.70 RAL 96.26 RAD 6568.2 VEL 12.351 PTH 2.23 VHP 9.732 DPA 10.48 RAP 75.43 ECC 1.5129
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 39 3230.27 -25.67 112.86 334.57 77.61 5 18 29 2630.3 -27.12 104.49
 90.00 0 14 3 4060.54 -4.45 164.19 326.54 62.01 1 21 44 3460.5 -8.16 157.47
 100.00 6 7 47 2897.77 -28.06 88.94 335.12 79.25 6 56 5 2297.8 -29.26 80.34
 100.00 1 13 37 3868.27 -2.31 148.88 325.36 60.19 2 18 5 3268.3 -6.26 142.32
 110.00 7 57 57 2553.08 -33.55 63.76 336.11 83.03 8 40 30 1953.1 -34.15 54.57
 110.00 1 39 56 3785.72 2.40 139.69 322.42 55.89 2 43 1 3185.7 -2.09 133.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0978 TRA 4.3917 TC3-2.8639 BAU 1.1937 SGT 5903.2 SGR 498.3 SG3 148.9 ST 1494.8 SR 386.2 SS 432.9
 RDE .3646 RRA .2818 RC3 -.0745 FAU .01590 RRT .6145 RRF .5935 RTF .9586 CRT .1815 CRS .0387 CST -.9750
 FDE -.1428 FRA 1.4557 FC3 -.4418 BSP 19400 SGB 5924.1 R23 .0024 R13 .9586 LSA 1554.9 MSA 391.4 SSA 14.2
 BDE .3775 BRA 4.4007 BC3 2.8649 FSP -512 SG1 5911.1 SG2 392.6 THA 2.98 EL1 1496.5 EL2 379.4 ALF 2.87

LAUNCH DATE FEB 12 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 587.007

RL 147.69 LAL .00 LOL 143.11 VL 26.341 GAL 9.80 AZL 89.90 MCA 291.80 SMA 120.28 ECC .28171 INC .0949 V1 30.168
 RP 107.79 LAP -.09 LOP 74.90 VP 36.865 GAP 15.27 AZP 89.96 TAL 152.64 TAP 84.44 RCA 86.40 APO 154.17 V2 35.155
 RC 190.875 GL .42 GP -11.87 ZAL 45.35 ZAP 167.96 ETS 283.16 ZAE 129.63 ETE 189.91 ZAC 171.41 ETC 166.63 CLP-177.99

PLANETOCENTRIC CONIC

C3 34.996 VHL 5.916 DLA 23.63 RAL 98.47 RAD 6568.4 VEL 12.505 PTH 2.26 VHP 10.127 DPA 11.10 RAP 77.66 ECC 1.5759
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 33 3200.01 -26.09 110.74 338.82 78.59 5 43 53 2600.0 -27.40 102.32
 90.00 0 5 47 4149.22 -1.60 169.15 329.80 61.72 1 14 56 3549.2 -5.37 162.49
 100.00 6 30 46 2876.89 -28.32 87.44 339.29 80.00 7 18 43 2276.9 -29.41 78.81
 100.00 1 8 15 3947.57 .38 153.23 328.70 60.11 2 14 3 3347.6 -3.60 146.70
 110.00 8 16 45 2545.32 -33.61 63.16 340.19 83.38 8 59 10 1945.3 -34.16 53.96
 110.00 1 38 46 3851.91 4.92 143.15 325.87 56.13 2 42 58 3251.9 .44 136.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2672 TRA 4.8123 TC3-2.5220 BAU 1.1803 SGT 5903.8 SGR 485.7 SG3 143.6 ST 1550.7 SR 373.1 SS 447.5
 RDE .3726 RRA .2993 RC3 -.0631 FAU .01426 RRT .6065 RRF .5863 RTF .9607 CRT .0893 CRS .0957 CST -.9824
 FDE -.1827 FRA 1.5127 FC3 -.3527 BSP 19463 SGB 5923.7 R23 .0014 R13 .9607 LSA 1612.2 MSA 380.4 SSA 13.5
 BDE .4585 BRA 4.8216 BC3 2.5228 FSP -495 SG1 5911.2 SG2 385.7 THA 2.87 EL1 1551.0 EL2 371.5 ALF 1.31

LAUNCH DATE FEB 12 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 6 1969

MELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 26.306 GAL 10.71 AZL 90.11 MCA 295.02 SMA 120.08 ECC .29256 INC .1128 V1 30.168
 RP 107.76 LAP .10 LOP 78.13 VP 36.850 GAP 15.99 AZP 90.05 TAL 151.27 TAP 86.29 RCA 84.95 APO 155.21 V2 35.166
 RC 192.690 GL -.47 GP -11.62 ZAL 43.41 ZAP 168.33 ETS 278.80 ZAE 129.56 ETE 189.69 ZAC 173.43 ETC 159.40 CLP -178.92

PLANETOCENTRIC CONIC
 C3 39.490 VHL 6.284 OLA 22.62 RAL 100.51 RAD 6568.5 VEL 12.683 PTH 2.30 VHP 10.558 DPA 11.66 RAP 79.89 ECC 1.6499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 13 3179.18 -26.36 109.28 342.95 79.27 6 6 12 2579.2 -27.58 100.82
 90.00 23 55 29 4231.10 1.04 173.72 333.11 61.70 25 6 0 3631.1 -2.75 167.09
 100.00 6 51 18 2862.91 -28.48 86.44 343.37 80.50 7 39 1 2262.9 -29.50 77.78
 100.00 1 4 1 4022.60 2.92 157.35 332.07 60.24 2 11 3 3422.6 -1.06 150.83
 110.00 8 33 55 2541.88 -33.64 62.90 344.22 83.53 9 16 17 1941.9 -34.17 53.70
 110.00 1 37 53 3916.40 7.36 146.56 329.33 56.52 2 43 10 3316.4 2.91 140.30

MID-COURSE EXECUTION ACCURACY
 SGT 5900.4 SGR 472.3 SG3 138.7 ST 1612.5 SR 360.2 SS 462.8
 RRT .5987 RRF .5797 RTF .9629 CRT .0127 CRS .1404 CST -.9878
 SGB 5919.3 R23 .0012 R13 .9629 LSA 1676.2 MSA 366.6 SSA 12.9
 SGI 5907.2 SG2 377.8 THA 2.75 EL1 1612.5 EL2 360.1 ALF .17

DIFFERENTIAL CORRECTIONS
 TOE -.4389 TRA 5.2640 TC3-2.1962 BAU 1.1598
 RDE .3814 RRA .3166 RC3 -.0522 FAU .01258
 FDE -.2190 FRA 1.5737 FC3 -.2757 BSP 19423
 BOE .5814 BRA 5.2735 BC3 2.1968 FSP -475

LAUNCH DATE FEB 12 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 8 1969

MELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 26.271 GAL 11.70 AZL 90.33 MCA 298.25 SMA 119.88 ECC .30451 INC .3329 V1 30.168
 RP 107.73 LAP .29 LOP 81.36 VP 36.835 GAP 16.78 AZP 90.16 TAL 149.94 TAP 88.19 RCA 83.38 APO 156.38 V2 35.177
 RC 194.480 GL -1.28 GP -11.38 ZAL 41.61 ZAP 168.61 ETS 274.08 ZAE 129.47 ETE 189.48 ZAC 175.25 ETC 146.32 CLP -179.87

PLANETOCENTRIC CONIC
 C3 44.776 VHL 6.691 OLA 21.67 RAL 102.39 RAD 6568.7 VEL 12.890 PTH 2.35 VHP 11.030 DPA 12.17 RAP 82.13 ECC 1.7369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 20 3165.63 -26.53 108.32 346.98 79.72 6 26 6 2565.6 -27.68 99.84
 90.00 23 50 24 4308.01 3.52 178.01 336.45 61.88 25 2 12 3708.0 -.27 171.38
 100.00 7 9 47 2854.65 -28.57 85.84 347.37 80.81 7 57 22 2254.7 -29.54 77.17
 100.00 1 0 34 4094.22 5.33 161.30 335.46 60.54 2 8 48 3494.2 1.37 154.76
 110.00 8 49 37 2542.31 -33.64 62.93 348.19 83.52 9 31 59 1942.3 -34.17 53.73
 110.00 1 37 13 3979.32 9.71 149.92 332.78 57.06 2 43 33 3379.3 5.30 143.60

MID-COURSE EXECUTION ACCURACY
 SGT 5892.3 SGR 457.3 SG3 133.9 ST 1675.7 SR 346.8 SS 478.9
 RRT .5899 RRF .5722 RTF .9653 CRT -.0547 CRS .1807 CST -.9916
 SGB 5910.0 R23 .0006 R13 .9653 LSA 1741.9 MSA 350.9 SSA 12.3
 SGI 5898.5 SG2 368.8 THA 2.63 EL1 1675.9 EL2 346.2 ALF 179.32

DIFFERENTIAL CORRECTIONS
 TOE -.6216 TRA 5.7421 TC3-1.8971 BAU 1.1359
 RDE .3905 RRA .3329 RC3 -.0426 FAU .01100
 FDE -.2554 FRA 1.6364 FC3 -.2127 BSP 19474
 BOE .7340 BRA 5.7517 BC3 1.8976 FSP -459

LAUNCH DATE FEB 12 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 10 1969

MELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 26.237 GAL 12.77 AZL 90.57 MCA 301.48 SMA 119.69 ECC .31770 INC .5670 V1 30.168
 RP 107.70 LAP .48 LOP 84.58 VP 36.820 GAP 17.64 AZP 90.30 TAL 148.68 TAP 90.15 RCA 81.66 APO 157.71 V2 35.187
 RC 196.245 GL -2.03 GP -11.17 ZAL 39.95 ZAP 168.80 ETS 269.03 ZAE 129.35 ETE 189.28 ZAC 176.55 ETC 121.08 CLP 179.15

PLANETOCENTRIC CONIC
 C3 51.014 VHL 7.142 OLA 20.77 RAL 104.12 RAD 6568.9 VEL 13.129 PTH 2.40 VHP 11.550 DPA 12.62 RAP 84.36 ECC 1.8396
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 19 3157.97 -26.62 107.78 350.91 79.98 6 43 57 2558.0 -27.74 99.29
 90.00 23 46 12 4380.93 5.85 182.11 339.80 62.24 24 59 13 3780.9 2.09 175.45
 100.00 7 26 27 2851.23 -28.61 85.59 351.29 80.93 8 13 58 2251.2 -29.56 76.92
 100.00 0 57 41 4162.91 7.61 165.12 338.84 61.01 2 7 4 3562.9 3.69 158.53
 110.00 9 3 57 2546.21 -33.61 63.23 352.10 83.34 9 46 23 1946.2 -34.16 54.03
 110.00 1 36 41 4040.69 11.96 153.25 336.23 57.74 2 44 2 3440.7 7.61 146.85

MID-COURSE EXECUTION ACCURACY
 SGT 5879.2 SGR 441.0 SG3 129.4 ST 1737.1 SR 333.3 SS 495.5
 RRT .5805 RRF .5642 RTF .9680 CRT -.1109 CRS .2147 CST -.9942
 SGB 5895.7 R23 .0001 R13 .9680 LSA 1806.1 MSA 334.6 SSA 11.8
 SGI 5884.8 SG2 358.8 THA 2.50 EL1 1737.5 EL2 331.1 ALF 178.73

DIFFERENTIAL CORRECTIONS
 TOE -.8097 TRA 6.2539 TC3-1.6200 BAU 1.1051
 RDE .4001 RRA .3480 RC3 -.0338 FAU .00943
 FDE -.2905 FRA 1.7032 FC3 -.1601 BSP 19489
 BOE .9032 BRA 6.2636 BC3 1.6203 FSP -444

LAUNCH DATE FEB 12 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 12 1969

MELIOCENTRIC CONIC
 RL 147.69 LAL .00 LOL 143.11 VL 26.203 GAL 13.94 AZL 90.82 MCA 304.71 SMA 119.50 ECC .33232 INC .8178 V1 30.168
 RP 107.67 LAP .67 LOP 87.81 VP 36.805 GAP 18.59 AZP 90.47 TAL 147.49 TAP 92.19 RCA 79.79 APO 159.21 V2 35.196
 RC 197.986 GL -2.72 GP -10.97 ZAL 38.43 ZAP 168.87 ETS 263.69 ZAE 129.19 ETE 189.08 ZAC 176.70 ETC 83.74 CLP 178.13

PLANETOCENTRIC CONIC
 C3 58.405 VHL 7.642 OLA 19.92 RAL 105.70 RAD 6569.1 VEL 13.408 PTH 2.45 VHP 12.125 DPA 13.01 RAP 86.57 ECC 1.9612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 26 3155.21 -26.66 107.59 354.75 80.07 7 0 2 2555.2 -27.76 99.09
 90.00 23 42 40 4450.46 8.03 186.05 343.15 62.76 24 56 50 3850.5 4.32 179.34
 100.00 7 41 29 2851.96 -28.60 85.64 355.11 80.90 8 29 1 2252.0 -29.56 76.97
 100.00 0 55 14 4228.95 9.77 168.83 342.22 61.61 2 5 43 3629.0 5.91 162.18
 110.00 9 16 59 2553.17 -33.55 63.77 355.93 83.03 9 59 32 1953.2 -34.15 54.58
 110.00 1 36 13 4100.50 14.11 156.55 339.67 58.54 2 44 34 3500.5 9.84 150.04

MID-COURSE EXECUTION ACCURACY
 SGT 5862.3 SGR 423.6 SG3 125.1 ST 1796.4 SR 319.7 SS 512.7
 RRT .5695 RRF .5551 RTF .9708 CRT -.1605 CRS .2436 CST -.9961
 SGB 5877.6 R23 .0004 R13 .9708 LSA 1868.5 MSA 317.9 SSA 11.3
 SGI 5867.3 SG2 347.9 THA 2.36 EL1 1797.2 EL2 315.4 ALF 178.31

DIFFERENTIAL CORRECTIONS
 TOE -1.0099 TRA 6.8047 TC3-1.3643 BAU 1.0655
 RDE .4106 RRA .3616 RC3 -.0260 FAU .00785
 FDE -.3244 FRA 1.7753 FC3 -.1164 BSP 19527
 BOE 1.0902 BRA 6.8143 BC3 1.3646 FSP -429

LAUNCH DATE FEB 12 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 609.565

RL 147.69 LAL .00 LOL 143.11 VL 26.171 GAL 15.21 AZL 91.09 HCA 307.93 SMA 119.32 ECC .34858 INC 1.0892 V1 30.168
 RP 107.64 LAP .86 LOP 91.05 VP 36.791 GAP 19.64 AZP 90.67 TAL 146.38 TAP 94.32 RCA 77.72 APO 160.91 V2 35.205
 RC 199.701 GL -3.36 GP -10.79 ZAL 37.05 ZAP 160.83 ETS 258.15 ZAE 128.98 ETE 188.88 ZAC 175.64 ETC 55.58 CLP 177.08

PLANETOCENTRIC CONIC

C3 67.207 VHL 8.198 DLA 19.13 RAL 107.13 RAD 6569.3 VEL 13.732 PTH 2.51 VHP 12.763 DPA 13.36 RAP 88.75 ECC 2.1061
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 53 3156.60 -26.64 107.68 358.47 80.03 7 14 30 2556.6 -27.75 99.19
 90.00 23 39 36 4516.91 10.08 189.85 346.46 63.40 24 54 53 3916.9 6.43 183.08
 100.00 7 55 2 2856.25 -28.55 85.96 358.84 80.75 8 42 38 2256.3 -29.53 77.29
 100.00 0 53 4 4292.49 11.81 172.46 345.56 62.34 2 4 37 3692.5 8.01 165.72
 110.00 9 28 48 2562.85 -33.47 64.51 359.68 82.60 10 11 31 1962.8 -34.13 55.33
 110.00 1 35 47 4158.66 16.15 159.82 343.07 59.45 2 45 6 3558.7 11.98 153.20

DIFFERENTIAL CORRECTIONS

TDE-1.2131 TRA 7.4032 TC3 -1.1278 BAU 1.0135
 RDE .4219 RRA .3732 RC3 -.0189 FAU .00619
 FDE -.3567 FRA 1.8545 FC3 -.0797 BSP 19438
 BOE 1.2844 BRA 7.4126 BC3 1.1280 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 5842.1 SGR 405.1 SG3 121.0
 RRT .5573 RRF .5450 RTF .9737
 SGB 5856.1 R23 .0007 R13 .9737
 SG1 5846.5 SG2 336.1 THA 2.22

ORBIT DETERMINATION ACCURACY

ST 1849.6 SR 306.3 SS 530.6
 CRT -.2011 CRS .2676 CST -.9974
 LSA 1925.0 MSA 301.6 SSA 10.7
 EL1 1850.7 EL2 299.9 ALF 178.04

LAUNCH DATE FEB 12 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 613.247

RL 147.69 LAL .00 LOL 143.11 VL 26.140 GAL 16.62 AZL 91.39 HCA 311.17 SMA 119.14 ECC .36672 INC 1.3857 V1 30.168
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.776 GAP 20.82 AZP 90.91 TAL 145.38 TAP 96.55 RCA 75.45 APO 162.83 V2 35.213
 RC 201.391 GL -3.94 GP -10.62 ZAL 35.82 ZAP 168.66 ETS 252.49 ZAE 128.72 ETE 188.68 ZAC 174.01 ETC 40.87 CLP 175.98

PLANETOCENTRIC CONIC

C3 77.750 VHL 8.818 DLA 18.39 RAL 108.40 RAD 6569.5 VEL 14.110 PTH 2.57 VHP 13.476 DPA 13.65 RAP 90.90 ECC 2.2796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 47 3161.50 -26.58 108.03 2.07 79.86 7 27 29 2561.5 -27.71 99.55
 90.00 23 36 52 4580.40 11.99 193.54 349.73 64.16 24 53 13 3980.4 8.42 186.68
 100.00 8 7 10 2863.62 -28.47 86.49 2.44 80.48 8 54 53 2263.6 -29.49 77.83
 100.00 0 51 7 4353.51 13.71 175.99 348.86 63.17 2 3 40 3753.5 10.00 169.16
 110.00 9 39 27 2574.87 -33.36 65.43 3.32 82.06 10 22 22 1974.9 -34.10 56.27
 110.00 1 35 19 4215.03 18.07 163.06 346.43 60.48 2 45 34 3615.0 14.00 156.31

DIFFERENTIAL CORRECTIONS

TDE-1.4318 TRA 8.0459 TC3 -.9158 BAU .9520
 RDE .4339 RRA .3817 RC3 -.0129 FAU .00453
 FDE -.3905 FRA 1.9398 FC3 -.0504 BSP 19448
 BOE 1.4961 BRA 8.0550 BC3 .9159 FSP -399

MID-COURSE EXECUTION ACCURACY

SGT 5816.4 SGR 385.1 SG3 117.1
 RRT .5421 RRF .5320 RTF .9766
 SGB 5829.1 R23 .0010 R13 .9766
 SG1 5820.2 SG2 323.4 THA 2.06

ORBIT DETERMINATION ACCURACY

ST 1897.4 SR 292.6 SS 550.1
 CRT -.2390 CRS .2914 CST -.9983
 LSA 1976.6 MSA 285.1 SSA 10.2
 EL1 1898.7 EL2 284.0 ALF 177.84

LAUNCH DATE FEB 12 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 616.491

RL 147.69 LAL .00 LOL 143.11 VL 26.110 GAL 18.17 AZL 91.71 HCA 314.40 SMA 118.97 ECC .38705 INC 1.7131 V1 30.168
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.763 GAP 22.13 AZP 91.20 TAL 144.50 TAP 98.90 RCA 72.92 APO 165.02 V2 35.221
 RC 203.056 GL -4.47 GP -10.46 ZAL 34.74 ZAP 168.34 ETS 246.80 ZAE 128.40 ETE 188.48 ZAC 172.21 ETC 32.93 CLP 174.83

PLANETOCENTRIC CONIC

C3 90.463 VHL 9.511 DLA 17.72 RAL 109.52 RAD 6569.8 VEL 14.554 PTH 2.64 VHP 14.277 DPA 13.90 RAP 93.00 ECC 2.4888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 46 13 3169.38 -26.49 108.59 5.53 79.60 7 39 3 2569.4 -27.65 100.12
 90.00 23 34 23 4640.94 13.76 197.10 352.92 65.01 24 51 44 4040.9 10.28 190.15
 100.00 8 17 56 2873.60 -28.35 87.21 5.91 80.12 9 5 50 2273.6 -29.43 78.57
 100.00 0 49 17 4411.95 15.48 179.43 352.08 64.10 2 2 49 3811.9 11.87 172.49
 110.00 9 48 56 2588.90 -33.22 66.51 6.83 81.44 10 32 5 1988.9 -34.05 57.36
 110.00 1 34 46 4269.41 19.86 166.26 349.72 61.59 2 45 56 3669.4 15.91 159.36

DIFFERENTIAL CORRECTIONS

TDE-1.6620 TRA 8.7450 TC3 -.7233 BAU .8748
 RDE .4470 RRA .3865 RC3 -.0078 FAU .00275
 FDE -.4244 FRA 2.0342 FC3 -.0263 BSP 19437
 BOE 1.7211 BRA 8.7535 BC3 .7233 FSP -387

MID-COURSE EXECUTION ACCURACY

SGT 5786.2 SGR 364.0 SG3 113.4
 RRT .5235 RRF .5156 RTF .9795
 SGB 5797.6 R23 .0016 R13 .9795
 SG1 5789.3 SG2 309.9 THA 1.89

ORBIT DETERMINATION ACCURACY

ST 1938.2 SR 279.1 SS 571.0
 CRT -.2735 CRS .3139 CST -.9989
 LSA 2021.9 MSA 269.0 SSA 9.7
 EL1 1939.8 EL2 268.2 ALF 177.70

LAUNCH DATE FEB 12 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 619.186

RL 147.69 LAL .00 LOL 143.11 VL 26.081 GAL 19.89 AZL 92.08 HCA 317.63 SMA 118.81 ECC .40991 INC 2.0790 V1 30.168
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.749 GAP 23.62 AZP 91.54 TAL 143.78 TAP 101.41 RCA 70.11 APO 167.52 V2 35.228
 RC 204.697 GL -4.96 GP -10.31 ZAL 33.81 ZAP 167.88 ETS 241.16 ZAE 128.00 ETE 188.26 ZAC 170.39 ETC 28.21 CLP 173.59

PLANETOCENTRIC CONIC

C3 105.909 VHL 10.291 DLA 17.10 RAL 110.48 RAD 6570.0 VEL 15.075 PTH 2.71 VHP 15.181 DPA 14.11 RAP 95.03 ECC 2.7430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 14 3179.77 -26.36 109.32 8.82 79.25 7 49 13 2579.8 -27.57 100.87
 90.00 23 32 2 4698.41 15.39 200.54 356.01 65.93 24 50 20 4098.4 12.01 193.49
 100.00 8 27 23 2885.80 -28.21 88.09 9.20 79.68 9 15 29 2285.8 -29.34 79.47
 100.00 0 47 29 4467.61 17.10 182.76 355.20 65.10 2 1 57 3867.6 13.60 175.72
 110.00 9 57 15 2604.62 -33.05 67.70 10.17 80.75 10 40 40 2004.6 -33.98 58.59
 110.00 1 34 6 4321.56 21.52 169.39 352.91 62.78 2 46 8 3721.6 17.70 162.35

DIFFERENTIAL CORRECTIONS

TDE-1.9046 TRA 9.5089 TC3 -.5495 BAU .7781
 RDE .4616 RRA .3865 RC3 -.0036 FAU .00080
 FDE -.4590 FRA 2.1394 FC3 -.0066 BSP 19399
 BOE 1.9597 BRA 9.5167 BC3 .5496 FSP -374

MID-COURSE EXECUTION ACCURACY

SGT 5751.8 SGR 341.7 SG3 109.9
 RRT .5001 RRF .4946 RTF .9824
 SGB 5761.9 R23 .0022 R13 .9824
 SG1 5754.3 SG2 295.8 THA 1.71

ORBIT DETERMINATION ACCURACY

ST 1971.4 SR 265.7 SS 594.0
 CRT -.3059 CRS .3359 CST -.9994
 LSA 2060.6 MSA 253.2 SSA 9.1
 EL1 1973.2 EL2 252.7 ALF 177.60

LAUNCH DATE FEB 13 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 24 1969

HELIOCENTRIC CONIC

DISTANCE 180.221

RL 147.72 LAL .00 LOL 144.12 VL 26.156 GAL -5.78 AZL 88.11 HCA 79.18 SMA 119.27 ECC .25782 INC 1.8890 VI 30.162
 RP 108.23 LAP 1.86 LOP 223.29 VP 36.601 GAP -13.99 AZP 89.65 TAL 197.22 TAP 276.39 RCA 88.52 APO 150.02 V2 35.013
 RC 47.558 GL 9.54 GP 12.29 ZAL 124.98 ZAP 12.60 ETS 285.85 ZAE 150.91 ETE 9.90 ZAC 128.15 ETC 153.39 CLP -2.83

PLANETOCENTRIC CONIC

C3 26.766 VHL 5.174 OLA 16.09 RAL 13.37 RAD 6568.1 VEL 12.171 PTH 2.18 VHP 9.307 DPA 24.50 RAP 33.91 ECC 1.4405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 43 2810.40 -28.22 82.58 245.88 92.43 1 21 34 2210.4 -27.59 73.98
 90.00 16 50 55 4404.34 6.59 183.43 238.10 62.40 18 4 20 3804.3 2.84 176.75
 100.00 2 5 2 2519.17 -29.68 61.07 245.79 93.71 2 47 1 1919.2 -28.85 52.37
 100.00 18 3 18 4170.80 7.87 165.56 237.41 61.07 19 12 49 3570.8 3.96 158.97
 110.00 3 33 10 2243.43 -33.51 39.70 245.36 97.20 4 10 33 1643.4 -32.15 30.73
 110.00 18 51 39 4019.30 11.18 152.08 235.42 57.48 19 58 39 3419.3 6.81 145.71

DIFFERENTIAL CORRECTIONS

TDE -.2578 TRA -.3953 TC3 .4599 BAU .1684
 RDE -.3567 RRA .1414 RC3 .1001 FAU .03252
 FDE .0894 FRA -.0285 FC3-1.0519 BSP 2050
 BDE .4401 BRA .4199 BC3 .4706 FSP -231

MID-COURSE EXECUTION ACCURACY

SGT 718.0 SGR 439.7 SG3 94.5
 RRT .2781 RRF -.3269 RTF -.6766
 SGB 842.0 R23 -.0468 R13 -.6903
 SG1 733.5 SG2 413.5 THA 14.29

ORBIT DETERMINATION ACCURACY

ST 316.9 SR 398.0 SS 84.2
 CRT .8416 CRS .9523 CST .8254
 LSA 495.7 MSA 139.9 SSA 25.0
 EL1 489.4 EL2 139.2 ALF 52.64

LAUNCH DATE FEB 13 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC

DISTANCE 186.982

RL 147.72 LAL .00 LOL 144.12 VL 26.382 GAL -5.79 AZL 88.29 HCA 82.38 SMA 120.55 ECC .24583 INC 1.7090 VI 30.162
 RP 108.27 LAP 1.69 LOP 226.49 VP 36.731 GAP -13.00 AZP 89.77 TAL 198.44 TAP 280.82 RCA 90.92 APO 150.19 V2 35.000
 RC 48.883 GL 9.01 GP 13.05 ZAL 126.80 ZAP 13.99 ETS 294.29 ZAE 149.39 ETE 11.55 ZAC 128.57 ETC 152.33 CLP -5.07

PLANETOCENTRIC CONIC

C3 24.974 VHL 4.997 OLA 14.90 RAL 11.90 RAD 6568.0 VEL 12.098 PTH 2.17 VHP 8.762 DPA 25.56 RAP 34.54 ECC 1.4110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 53 2750.48 -27.97 78.22 242.56 94.61 1 25 43 2150.5 -27.04 69.68
 90.00 16 34 3 4429.99 7.39 184.88 235.44 62.59 17 47 53 3830.0 3.66 178.19
 100.00 2 9 17 2462.17 -29.36 56.87 242.42 95.90 2 50 19 1862.2 -28.23 48.24
 100.00 17 47 20 4193.53 8.62 166.84 234.77 61.27 18 57 13 3593.5 4.72 160.22
 110.00 3 35 31 2192.37 -33.00 35.80 241.84 99.45 4 12 3 1592.4 -31.35 26.97
 110.00 18 37 36 4036.10 11.79 153.00 232.87 57.68 19 44 52 3436.1 7.44 146.60

DIFFERENTIAL CORRECTIONS

TDE -.2478 TRA -.3733 TC3 .5216 BAU .1795
 RDE -.3436 RRA .1440 RC3 .1304 FAU .03529
 FDE .0711 FRA -.0598 FC3-1.2232 BSP 2149
 BDE .4237 BRA .4001 BC3 .5376 FSP -265

MID-COURSE EXECUTION ACCURACY

SGT 740.7 SGR 448.7 SG3 106.0
 RRT .3135 RRF -.3696 RTF -.6919
 SGB 866.0 R23 -.0554 R13 -.7082
 SG1 760.0 SG2 415.3 THA 15.48

ORBIT DETERMINATION ACCURACY

ST 314.1 SR 397.3 SS 69.5
 CRT .8430 CRS .9134 CST .7243
 LSA 491.2 MSA 139.1 SSA 27.2
 EL1 487.4 EL2 137.7 ALF 52.86

LAUNCH DATE FEB 13 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC

DISTANCE 193.737

RL 147.72 LAL .00 LOL 144.12 VL 26.586 GAL -5.81 AZL 88.47 HCA 85.57 SMA 121.75 ECC .23511 INC 1.5317 VI 30.162
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.885 GAP -12.06 AZP 89.88 TAL 199.70 TAP 285.27 RCA 93.13 APO 150.37 V2 34.987
 RC 50.327 GL 8.39 GP 13.90 ZAL 128.60 ZAP 15.71 ETS 301.25 ZAE 148.06 ETE 13.27 ZAC 128.86 ETC 151.23 CLP -7.40

PLANETOCENTRIC CONIC

C3 23.479 VHL 4.845 OLA 13.64 RAL 10.50 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 8.248 DPA 26.67 RAP 35.06 ECC 1.3864
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 45 34 2691.05 -27.57 73.92 239.43 96.73 1 30 25 2091.1 -26.35 65.46
 90.00 16 17 11 4459.13 8.30 186.54 232.99 62.83 17 31 30 3859.1 4.59 179.82
 100.00 2 14 5 2405.60 -28.89 52.73 239.24 98.04 2 54 10 1805.6 -27.48 44.21
 100.00 17 31 21 4219.82 9.48 168.32 232.36 61.52 18 41 41 3619.8 5.60 161.67
 110.00 3 38 25 2141.68 -32.37 31.98 238.54 101.63 4 14 7 1541.7 -30.43 23.31
 110.00 18 23 30 4056.50 12.53 154.11 230.54 57.93 19 31 6 3456.5 8.21 147.69

DIFFERENTIAL CORRECTIONS

TDE -.2361 TRA -.3518 TC3 .5830 BAU .1903
 RDE -.3307 RRA .1475 RC3 .1661 FAU .03839
 FDE .0474 FRA -.0952 FC3-1.4155 BSP 2247
 BDE .4063 BRA .3815 BC3 .6062 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 761.8 SGR 459.4 SG3 119.0
 RRT .3522 RRF -.4164 RTF -.7061
 SGB 889.6 R23 -.0649 R13 -.7255
 SG1 785.9 SG2 416.7 THA 16.86

ORBIT DETERMINATION ACCURACY

ST 307.8 SR 394.7 SS 55.4
 CRT .8423 CRS .7816 CST .4966
 LSA 483.3 MSA 138.3 SSA 29.7
 EL1 481.7 EL2 135.9 ALF 53.31

LAUNCH DATE FEB 13 1969

FLIGHT TIME 76.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 200.484

RL 147.72 LAL .00 LOL 144.12 VL 26.770 GAL -5.84 AZL 88.64 HCA 88.76 SMA 122.86 ECC .22556 INC 1.3561 VI 30.162
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.005 GAP -11.16 AZP 89.97 TAL 200.97 TAP 289.73 RCA 95.14 APO 150.57 V2 34.974
 RC 51.881 GL 7.68 GP 14.85 ZAL 130.37 ZAP 17.73 ETS 306.90 ZAE 146.92 ETE 15.09 ZAC 129.01 ETC 150.10 CLP -9.80

PLANETOCENTRIC CONIC

C3 22.233 VHL 4.715 OLA 12.32 RAL 9.19 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 7.764 DPA 27.83 RAP 35.46 ECC 1.3659
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 51 44 2632.44 -27.03 69.71 236.53 98.77 1 35 37 2032.4 -25.54 61.36
 90.00 16 0 31 4491.22 9.29 188.37 230.78 63.13 17 15 22 3891.2 5.62 181.63
 100.00 2 19 24 2349.74 -28.29 48.68 236.30 100.08 2 58 33 1749.7 -26.61 40.29
 100.00 17 15 33 4249.13 10.43 169.98 230.18 61.83 18 26 22 3649.1 6.58 163.30
 110.00 3 41 53 2091.63 -31.62 28.27 235.49 103.71 4 16 44 1491.6 -29.42 19.76
 110.00 18 9 33 4080.02 13.38 155.41 228.44 58.25 19 17 33 3480.0 9.08 148.94

DIFFERENTIAL CORRECTIONS

TDE -.2228 TRA -.3312 TC3 .6421 BAU .2006
 RDE -.3175 RRA .1521 RC3 .2078 FAU .04186
 FDE .0175 FRA -.1350 FC3-1.6301 BSP 2345
 BDE .3879 BRA .3645 BC3 .6749 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 780.8 SGR 472.3 SG3 133.6
 RRT .3936 RRF -.4672 RTF -.7183
 SGB 912.5 R23 -.0760 R13 -.7419
 SG1 811.2 SG2 417.9 THA 18.45

ORBIT DETERMINATION ACCURACY

ST 298.1 SR 390.0 SS 48.0
 CRT .8388 CRS .4069 CST .0179
 LSA 472.5 MSA 138.0 SSA 32.3
 EL1 472.3 EL2 134.0 ALF 53.98

LAUNCH DATE FEB 13 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 207.219

RL 147.72 LAL .00 LOL 144.12 VL 26.935 GAL -5.87 AZL 88.82 MCA 91.95 SMA 123.87 ECC .21708 INC 1.1811 V1 30.162
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.113 GAP -10.31 AZP 90.04 TAL 202.23 TAP 294.18 RCA 96.98 APO 150.76 V2 34.961
 RC 53.536 GL 6.89 GP 15.89 ZAL 132.08 ZAP 20.00 ETS 311.50 ZAE 145.96 ETE 17.06 ZAC 128.99 ETC 148.95 CLP -12.31

PLANETOCENTRIC CONIC

C3 21.197 VHL 4.604 DLA 10.94 RAL 7.98 RAD 6567.9 VEL 11.941 PTH 2.12 VHP 7.311 DPA 29.05 RAP 35.70 ECC 1.3488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 58 24 2574.85 -26.37 65.63 233.88 100.71 1 41 18 1974.8 -24.62 57.39
 90.00 15 44 13 4525.76 10.35 190.36 228.82 63.50 16 59 39 3925.8 6.71 183.58
 100.00 2 25 13 2294.83 -27.57 44.76 233.60 102.03 3 3 28 1694.8 -25.64 36.49
 100.00 17 0 4 4281.01 11.44 171.80 228.25 62.20 18 11 25 3681.0 7.63 165.08
 110.00 3 45 53 2042.39 -30.77 24.69 232.70 105.67 4 19 56 1442.4 -28.32 16.35
 110.00 17 55 54 4106.21 14.31 156.86 226.58 58.62 19 4 20 3506.2 10.05 150.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2083 TRA -.3120 TC3 .6967 BAU .2103 SGT 796.9 SGR 488.5 SG3 149.9 ST 285.7 SR 383.0 SS 56.1
 ROE -.3039 RRA .1578 RC3 .2560 FAU .04574 RRT .4372 RRF -.5214 RTF -.7286 CRT .8321 CRS -.1342 CST -.5233
 FDE -.0192 FRA -.1792 FC3-1.8682 BSP 2437 SGB 934.7 R23 -.0887 R13 -.7575 LSA 459.5 MSA 138.3 SSA 35.2
 BDE .3684 BRA .3496 BC3 .7423 FSP -396 SG1 835.6 SG2 419.0 THA 20.32 EL1 459.2 EL2 132.2 ALF 54.83

LAUNCH DATE FEB 13 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 213.938

RL 147.72 LAL .00 LOL 144.12 VL 27.083 GAL -5.90 AZL 88.99 MCA 95.14 SMA 124.80 ECC .20960 INC 1.0055 V1 30.162
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.208 GAP -9.49 AZP 90.09 TAL 203.48 TAP 298.62 RCA 98.64 APO 150.96 V2 34.948
 RC 55.282 GL 6.02 GP 17.04 ZAL 133.71 ZAP 22.51 ETS 315.26 ZAE 145.19 ETE 19.21 ZAC 128.79 ETC 147.80 CLP -14.92

PLANETOCENTRIC CONIC

C3 20.335 VHL 4.509 DLA 9.53 RAL 6.89 RAD 6567.8 VEL 11.904 PTH 2.12 VHP 6.887 DPA 30.33 RAP 35.78 ECC 1.3347
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 5 31 2518.40 -25.59 61.68 231.48 102.55 1 47 30 1918.4 -23.61 53.57
 90.00 15 28 23 4562.33 11.45 192.48 227.13 63.93 16 44 25 3962.3 7.86 185.65
 100.00 2 31 33 2240.96 -26.75 40.97 231.17 103.86 3 8 54 1641.0 -24.58 32.84
 100.00 16 45 2 4315.01 12.52 173.75 226.58 62.63 17 56 57 3715.0 8.75 166.99
 110.00 3 50 26 1994.08 -29.83 21.24 230.19 107.51 4 23 40 1394.1 -27.15 13.08
 110.00 17 42 30 4134.65 15.31 158.46 224.97 59.06 18 51 33 3534.6 11.10 151.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1912 TRA -.2929 TC3 .7481 BAU .2203 SGT 810.4 SGR 509.0 SG3 168.3 ST 268.8 SR 373.0 SS 79.8
 ROE -.2892 RRA .1648 RC3 .3117 FAU .05009 RRT .4820 RRF -.5779 RTF -.7390 CRT .8201 CRS -.4857 CST -.8030
 FDE -.0652 FRA -.2287 FC3-2.1324 BSP 2562 SGB 956.9 R23 -.1012 R13 -.7745 LSA 443.7 MSA 139.3 SSA 38.1
 BDE .3467 BRA .3361 BC3 .8104 FSP -453 SG1 859.7 SG2 420.4 THA 22.50 EL1 440.9 EL2 130.1 ALF 56.06

LAUNCH DATE FEB 13 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 220.639

RL 147.72 LAL .00 LOL 144.12 VL 27.215 GAL -5.94 AZL 89.17 MCA 98.32 SMA 125.65 ECC .20301 INC .8282 V1 30.162
 RP 108.47 LAP .82 LOP 242.44 VP 37.292 GAP -8.72 AZP 90.12 TAL 204.69 TAP 303.01 RCA 100.14 APO 151.16 V2 34.936
 RC 57.109 GL 5.07 GP 18.32 ZAL 135.24 ZAP 25.24 ETS 318.39 ZAE 144.57 ETE 21.59 ZAC 128.38 ETC 146.67 CLP -17.67

PLANETOCENTRIC CONIC

C3 19.621 VHL 4.430 DLA 8.08 RAL 5.93 RAD 6567.8 VEL 11.874 PTH 2.11 VHP 6.492 DPA 31.67 RAP 35.67 ECC 1.3229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 8 2463.15 -24.72 57.86 229.34 104.27 1 54 11 1863.1 -22.52 49.89
 90.00 15 13 13 4600.56 12.59 194.72 225.69 64.42 16 29 47 4000.6 9.04 187.83
 100.00 2 38 23 2188.20 -25.84 37.31 229.01 105.58 3 14 51 1588.2 -23.45 29.33
 100.00 16 30 32 4350.74 13.62 175.83 225.17 63.13 17 43 3 3750.7 9.91 169.00
 110.00 3 55 32 1946.75 -28.82 17.93 227.96 109.23 4 27 59 1346.7 -25.92 9.94
 110.00 17 29 52 4164.95 16.37 160.18 223.62 59.56 18 39 17 3565.0 12.20 153.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1750 TRA -.2776 TC3 .7883 BAU .2290 SGT 818.9 SGR 534.9 SG3 188.4 ST 252.0 SR 359.9 SS 112.4
 ROE -.2732 RRA .1727 RC3 .3749 FAU .05483 RRT .5254 RRF -.6347 RTF -.7443 CRT .8028 CRS -.6451 CST -.9035
 FDE -.1196 FRA -.2812 FC3-2.4195 BSP 2644 SGB 978.1 R23 -.1168 R13 -.7889 LSA 428.9 MSA 141.6 SSA 40.7
 BDE .3244 BRA .3270 BC3 .8730 FSP -515 SG1 882.1 SG2 422.5 THA 25.06 EL1 420.1 EL2 128.7 ALF 57.20

LAUNCH DATE FEB 13 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 227.320

RL 147.72 LAL .00 LOL 144.12 VL 27.332 GAL -5.97 AZL 89.35 MCA 101.51 SMA 126.41 ECC .19724 INC .6482 V1 30.162
 RP 108.51 LAP .64 LOP 245.62 VP 37.366 GAP -7.97 AZP 90.13 TAL 205.84 TAP 307.34 RCA 101.48 APO 151.35 V2 34.923
 RC 59.010 GL 4.04 GP 19.74 ZAL 136.66 ZAP 28.20 ETS 321.04 ZAE 144.10 ETE 24.26 ZAC 127.76 ETC 145.59 CLP -20.56

PLANETOCENTRIC CONIC

C3 19.029 VHL 4.362 DLA 6.61 RAL 5.10 RAD 6567.8 VEL 11.849 PTH 2.10 VHP 6.126 DPA 33.09 RAP 35.32 ECC 1.3132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 21 15 2409.01 -23.76 54.19 227.47 105.87 2 1 24 1809.0 -21.36 46.34
 90.00 14 58 25 4640.20 13.74 197.06 224.52 65.00 16 15 46 4040.2 10.26 190.11
 100.00 2 45 45 2136.49 -24.84 33.79 227.12 107.18 3 21 21 1536.5 -22.26 25.95
 100.00 16 16 37 4387.96 14.76 178.01 224.02 63.71 17 29 45 3788.0 11.11 171.12
 110.00 4 1 12 1900.36 -27.74 14.75 226.01 110.83 4 32 52 1300.4 -24.65 6.94
 110.00 17 17 39 4196.85 17.46 162.01 222.52 60.13 18 27 36 3596.9 13.35 155.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1582 TRA -.2647 TC3 .8186 BAU .2373 SGT 822.0 SGR 567.7 SG3 210.5 ST 233.7 SR 343.2 SS 151.4
 ROE -.2553 RRA .1818 RC3 .4469 FAU .06004 RRT .5657 RRF -.6904 RTF -.7467 CRT .7771 CRS -.7217 CST -.9407
 FDE -.1847 FRA -.3372 FC3-2.7317 BSP 2727 SGB 999.0 R23 -.1330 R13 -.8035 LSA 415.3 MSA 145.1 SSA 43.0
 BDE .3003 BRA .3211 BC3 .9327 FSP -585 SG1 903.7 SG2 425.8 THA 28.10 EL1 395.1 EL2 127.8 ALF 58.43

LAUNCH DATE FEB 13 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 233.979

RL 147.72 LAL .00 LOL 144.12 VL 27.435 GAL -5.99 AZL 89.54 HCA 104.69 SMA 127.10 ECC .19221 INC .4641 V1 30.162
 RP 108.55 LAP .45 LOP 248.80 VP 37.431 GAP -7.26 AZP 90.12 TAL 206.92 TAP 311.60 RCA 102.67 APO 151.53 V2 34.911
 RC 60.976 GL 2.94 GP 21.30 ZAL 137.94 ZAP 31.38 ETS 323.35 ZAE 143.75 ETE 27.27 ZAC 126.90 ETC 144.58 CLP -23.61

PLANETOCENTRIC CONIC

C3 18.539 VHL 4.306 DLA 5.12 RAL 4.43 RAD 6567.8 VEL 11.829 PTH 2.09 VHP 5.790 DPA 34.57 RAP 34.73 ECC 1.3051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 .1 29 54 2355.86 -22.73 50.63 225.87 107.36 2 9 10 1755.9 -20.14 42.92
 90.00 14 44 21 4681.08 14.90 199.50 223.60 65.64 16 2 23 4081.1 11.49 192.48
 100.00 2 53 40 2085.71 -23.78 30.39 225.50 108.67 3 28 25 1485.7 -21.01 22.69
 100.00 16 3 17 4426.47 15.91 180.29 223.12 64.35 17 17 4 3826.5 12.33 173.33
 110.00 4 7 26 1854.80 -26.60 11.70 224.33 112.31 4 38 21 1254.8 -23.33 4.06
 110.00 17 6 0 4230.14 18.57 163.94 221.67 60.77 18 16 30 3630.1 14.54 157.15

DIFFERENTIAL CORRECTIONS

TOE -.1417 TRA -.2549 TC3 .8365 BAU .2452
 RDE -.2350 RRA .1921 RC3 .5282 FAU .06565
 FDE -.2614 FRA -.3954 FC3-.0655 BSP 2803
 BOE .2744 BRA .3192 BC3 .9893 FSP -660

MID-COURSE EXECUTION ACCURACY

SGT 818.7 SGR 608.7 SG3 234.5
 RRT .6003 RRF -.7429 RTF -.7451
 SGB 1020.3 R23 -.1490 R13 -.8183
 SG1 924.7 SG2 431.1 THA 31.70

ORBIT DETERMINATION ACCURACY

ST 215.5 SR 322.3 SS 195.3
 CRT .7397 CRS -.7589 CST -.9516
 LSA 405.2 MSA 149.3 SSA 44.7
 EL1 366.1 EL2 127.7 ALF 59.60

LAUNCH DATE FEB 13 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 240.613

RL 147.72 LAL .00 LOL 144.12 VL 27.526 GAL -6.02 AZL 89.72 HCA 107.86 SMA 127.71 ECC .18783 INC .2747 V1 30.162
 RP 108.58 LAP .26 LOP 251.98 VP 37.487 GAP -6.59 AZP 90.08 TAL 207.92 TAP 315.78 RCA 103.72 APO 151.69 V2 34.900
 RC 63.000 GL 1.77 GP 23.01 ZAL 139.08 ZAP 34.78 ETS 325.42 ZAE 143.47 ETE 30.67 ZAC 125.79 ETC 143.67 CLP -26.84

PLANETOCENTRIC CONIC

C3 18.135 VHL 4.259 DLA 3.61 RAL 3.90 RAD 6567.7 VEL 11.812 PTH 2.09 VHP 5.483 DPA 36.13 RAP 33.83 ECC 1.2985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 39 9 2303.48 -21.62 47.19 224.52 108.74 2 17 32 1703.5 -18.86 39.60
 90.00 14 30 53 4723.16 16.07 202.04 222.94 66.37 15 49 36 4123.2 12.74 194.94
 100.00 3 2 11 2035.65 -22.65 27.11 224.13 110.05 3 36 6 1435.7 -19.71 19.54
 100.00 15 50 32 4466.21 17.06 182.68 222.47 65.08 17 4 59 3866.2 13.56 175.63
 110.00 4 14 18 1809.93 -25.40 8.76 222.92 113.68 4 44 28 1209.9 -21.98 1.28
 110.00 16 54 54 4264.70 19.71 165.98 221.07 61.49 18 5 59 3664.7 15.75 159.09

DIFFERENTIAL CORRECTIONS

TOE -.1243 TRA -.2467 TC3 .8438 BAU .2540
 RDE -.2112 RRA .2039 RC3 .6207 FAU .07172
 FDE -.3532 FRA -.4569 FC3-3.4237 BSP 2915
 BOE .2450 BRA .3201 BC3 1.0475 FSP -746

MID-COURSE EXECUTION ACCURACY

SGT 809.4 SGR 660.1 SG3 260.8
 RRT .6288 RRF -.7910 RTF -.7415
 SGB 1044.4 R23 -.1602 R13 -.8358
 SG1 948.0 SG2 438.2 THA 35.96

ORBIT DETERMINATION ACCURACY

ST 195.9 SR 296.2 SS 245.1
 CRT .6825 CRS -.7724 CST -.9473
 LSA 400.7 MSA 153.4 SSA 45.7
 EL1 331.3 EL2 128.0 ALF 60.97

LAUNCH DATE FEB 13 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 247.222

RL 147.72 LAL .00 LOL 144.12 VL 27.605 GAL -6.04 AZL 89.92 HCA 111.04 SMA 128.24 ECC .18403 INC .0785 V1 30.162
 RP 108.62 LAP .07 LOP 255.16 VP 37.534 GAP -5.94 AZP 90.03 TAL 208.82 TAP 319.86 RCA 104.64 APO 151.84 V2 34.889
 RC 65.076 GL .51 GP 24.89 ZAL 140.06 ZAP 38.42 ETS 327.34 ZAE 143.23 ETE 34.50 ZAC 124.41 ETC 142.89 CLP -30.26

PLANETOCENTRIC CONIC

C3 17.803 VHL 4.219 DLA 2.08 RAL 3.52 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 5.207 DPA 37.74 RAP 32.61 ECC 1.2930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 3 2251.58 -20.45 43.84 223.44 110.03 2 26 34 1651.6 -17.54 36.37
 90.00 14 17 58 4766.44 17.23 204.68 222.53 67.18 15 37 25 4166.4 13.99 197.50
 100.00 3 11 22 1986.08 -21.46 23.91 223.03 111.33 3 44 28 1386.1 -18.37 16.47
 100.00 15 38 21 4507.17 18.22 185.17 222.08 65.88 16 53 28 3907.2 14.81 178.03
 110.00 4 21 50 1765.51 -24.16 5.91 221.78 114.95 4 51 15 1165.5 -20.59 358.58
 110.00 16 44 22 4300.51 20.86 168.12 220.72 62.28 17 56 2 3700.5 16.99 161.14

DIFFERENTIAL CORRECTIONS

TOE -.1099 TRA -.2441 TC3 .8312 BAU .2623
 RDE -.1838 RRA .2164 RC3 .7234 FAU .07797
 FDE -.4570 FRA -.5155 FC3-3.7916 BSP 2995
 BOE .2141 BRA .3262 BC3 1.1019 FSP -834

MID-COURSE EXECUTION ACCURACY

SGT 790.1 SGR 722.1 SG3 288.0
 RRT .6449 RRF -.8327 RTF -.7287
 SGB 1070.3 R23 -.1687 R13 -.8531
 SG1 971.7 SG2 448.7 THA 41.02

ORBIT DETERMINATION ACCURACY

ST 180.5 SR 265.3 SS 297.9
 CRT .6020 CRS -.7659 CST -.9323
 LSA 406.5 MSA 156.1 SSA 45.8
 EL1 293.2 EL2 130.4 ALF 61.62

LAUNCH DATE FEB 13 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 253.804

RL 147.72 LAL .00 LOL 144.12 VL 27.673 GAL -6.05 AZL 90.13 HCA 114.21 SMA 128.71 ECC .18075 INC .1251 V1 30.162
 RP 108.65 LAP -.11 LOP 258.33 VP 37.574 GAP -5.32 AZP 89.95 TAL 209.62 TAP 323.84 RCA 105.45 APO 151.98 V2 34.878
 RC 67.198 GL -.83 GP 26.93 ZAL 140.88 ZAP 42.28 ETS 329.21 ZAE 142.96 ETE 38.81 ZAC 122.77 ETC 142.28 CLP -33.91

PLANETOCENTRIC CONIC

C3 17.533 VHL 4.187 DLA .53 RAL 3.30 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 4.962 DPA 39.42 RAP 31.03 ECC 1.2885
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 59 41 2199.82 -19.21 40.55 222.60 111.21 2 36 21 1599.8 -16.15 33.20
 90.00 14 5 33 4811.09 18.39 207.45 222.37 68.08 15 25 44 4211.1 15.25 200.18
 100.00 3 21 17 1936.65 -20.20 20.77 222.17 112.51 3 53 33 1336.6 -16.97 13.46
 100.00 15 26 39 4549.50 19.38 187.78 221.94 66.78 16 42 28 3949.5 16.07 180.55
 110.00 4 30 5 1721.27 -22.86 3.13 220.88 116.14 4 58 46 1121.3 -19.16 355.95
 110.00 16 34 20 4337.64 22.02 170.38 220.62 -63.17 17 46 37 3737.6 18.24 163.28

DIFFERENTIAL CORRECTIONS

TOE -.0977 TRA -.2457 TC3 .8005 BAU .2716
 RDE -.1517 RRA .2295 RC3 .8375 FAU .08434
 FDE -.5749 FRA -.5700 FC3-4.1643 BSP 3090
 BOE .1804 BRA .3362 BC3 1.1585 FSP -926

MID-COURSE EXECUTION ACCURACY

SGT 761.7 SGR 796.0 SG3 316.1
 RRT .6471 RRF -.8678 RTF -.7069
 SGB 1101.8 R23 -.1690 R13 -.8723
 SG1 1000.1 SG2 462.3 THA 46.95

ORBIT DETERMINATION ACCURACY

ST 168.6 SR 228.9 SS 354.7
 CRT .4835 CRS -.7341 CST -.9076
 LSA 424.6 MSA 156.1 SSA 45.2
 EL1 250.2 EL2 135.1 ALF 61.34

LAUNCH DATE FEB 13 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 260.359

RL 147.72 LAL .00 LOL 144.12 VL 27.731 GAL -6.06 AZL 90.34 MCA 117.38 SMA 129.12 ECC .17792 INC .3401 V1 30.162
 RP 108.68 LAP -.30 LOP 261.50 VP 37.608 GAP -4.72 AZP 89.84 TAL 210.32 TAP 327.70 RCA 106.15 APO 152.09 V2 34.867
 RC 69.360 GL -2.26 GP 29.14 ZAL 141.52 ZAP 46.35 ETS 331.08 ZAE 142.61 ETE 43.61 ZAC 120.85 ETC 141.86 CLP -37.79

PLANETOCENTRIC CONIC

C3 17.317 VHL 4.161 DLA -1.06 RAL 3.23 RAD 6567.7 VEL 11.777 PTH 2.08 VHP 4.749 DPA 41.14 RAP 29.04 ECC 1.2850
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 11 11 2147.76 -17.89 37.29 222.01 112.32 2 46 59 1547.8 -14.71 30.06
 90.00 13 53 32 4857.41 19.54 210.36 222.46 69.09 15 14 29 4257.4 16.52 202.98
 100.00 3 32 2 1886.96 -18.88 17.68 221.57 113.62 4 3 29 1287.0 -15.52 10.49
 100.00 15 15 22 4593.44 20.53 190.53 222.04 67.78 16 31 55 3993.4 17.34 183.19
 110.00 4 39 9 1676.87 -21.50 .40 220.24 117.24 5 7 6 1076.9 -17.68 353.36
 110.00 16 24 44 4376.29 23.19 172.77 220.77 64.15 17 37 40 3776.3 19.52 165.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0874 TRA -.2505 TC3 .7524 BAU .2831 SGT 725.0 SGR 883.5 SG3 344.8 ST 159.8 SR 187.3 SS 417.0
 RDE -.1134 RRA .2433 RC3 .9641 FAU .09070 RRT .6334 RRF -.8968 RTF -.6744 CRT .2952 CRS -.6521 CST -.8737
 FDE -.7096 FRA -.6198 FC3-4.5343 BSP 3238 SGB 1142.8 R23 -.1564 R13 -.8937 LSA 457.2 MSA 153.5 SSA 43.8
 BOE .1432 BRA .3492 BC3 1.2230 FSP -1025 SG1 1038.4 SG2 477.3 THA 53.72 EL1 200.8 EL2 142.3 ALF 59.17

LAUNCH DATE FEB 13 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 266.886

RL 147.72 LAL .00 LOL 144.12 VL 27.780 GAL -6.06 AZL 90.57 MCA 120.55 SMA 129.46 ECC .17549 INC .5676 V1 30.162
 RP 108.72 LAP -.49 LOP 264.67 VP 37.635 GAP -4.16 AZP 89.71 TAL 210.90 TAP 331.45 RCA 106.74 APO 152.18 V2 34.858
 RC 71.560 GL -3.79 GP 31.50 ZAL 141.98 ZAP 50.62 ETS 333.04 ZAE 142.09 ETE 48.88 ZAC 118.67 ETC 141.68 CLP -41.91

PLANETOCENTRIC CONIC

C3 17.150 VHL 4.141 DLA -2.69 RAL 3.32 RAD 6567.7 VEL 11.770 PTH 2.08 VHP 4.570 DPA 42.88 RAP 26.62 ECC 1.2822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 40 2094.92 -16.50 34.04 221.67 113.35 2 58 35 1494.9 -13.20 26.92
 90.00 13 41 47 4905.77 20.68 213.44 222.80 70.22 15 3 33 4305.8 17.80 205.96
 100.00 3 43 46 1836.57 -17.47 14.59 221.21 114.65 4 14 22 1236.6 -14.00 7.52
 100.00 15 4 23 4639.36 21.69 193.45 222.40 68.91 16 21 43 4039.4 18.63 185.99
 110.00 4 49 8 1631.94 -20.08 357.69 219.84 118.27 5 16 20 1031.9 -16.14 350.78
 110.00 16 15 31 4416.75 24.36 175.32 221.17 65.25 17 29 7 3816.7 20.82 167.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0832 TRA -.2615 TC3 .6780 BAU .2962 SGT 678.1 SGR 982.1 SG3 371.6 ST 159.2 SR 145.8 SS 480.9
 RDE -.0692 RRA .2561 RC3 1.0996 FAU .09651 RRT .5917 RRF -.9195 RTF -.6175 CRT -.0033 CRS -.4552 CST -.8433
 FDE -.8534 FRA -.6560 FC3-4.8719 BSP 3385 SGB 1193.5 R23 -.1337 R13 -.9143 LSA 503.8 MSA 149.1 SSA 41.8
 BOE .1082 BRA .3660 BC3 1.2919 FSP -1115 SG1 1086.3 SG2 494.2 THA 61.32 EL1 159.2 EL2 145.8 ALF 178.93

LAUNCH DATE FEB 13 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 273.384

RL 147.72 LAL .00 LOL 144.12 VL 27.821 GAL -6.05 AZL 90.81 MCA 123.72 SMA 129.75 ECC .17340 INC .8103 V1 30.162
 RP 108.74 LAP -.67 LOP 267.84 VP 37.656 GAP -3.61 AZP 89.55 TAL 211.37 TAP 335.09 RCA 107.25 APO 152.25 V2 34.848
 RC 73.792 GL -5.44 GP 34.01 ZAL 142.24 ZAP 55.06 ETS 335.16 ZAE 141.34 ETE 54.56 ZAC 116.24 ETC 141.74 CLP -46.29

PLANETOCENTRIC CONIC

C3 17.030 VHL 4.127 DLA -4.38 RAL 3.58 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 4.426 DPA 44.61 RAP 23.74 ECC 1.2803
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 37 20 2040.70 -15.01 30.76 221.58 114.30 3 11 20 1440.7 -11.60 23.74
 90.00 13 30 12 4956.76 21.82 216.75 223.42 71.50 14 52 49 4356.8 19.09 209.14
 100.00 3 56 37 1784.93 -15.98 11.49 221.11 115.60 4 26 22 1184.9 -12.40 4.52
 100.00 14 53 36 4687.77 22.84 196.59 223.04 70.17 16 11 44 4087.8 19.93 189.00
 110.00 5 0 9 1586.02 -18.57 354.98 219.70 119.23 5 26 35 986.0 -14.54 348.19
 110.00 16 6 33 4459.44 25.55 178.07 221.85 66.48 17 20 53 3859.4 22.15 170.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0851 TRA -.2773 TC3 .5796 BAU .3124 SGT 626.0 SGR 1091.9 SG3 395.9 ST 166.1 SR 118.4 SS 547.5
 RDE -.0177 RRA .2672 RC3 1.2435 FAU .10157 RRT .5122 RRF -.9372 RTF -.5263 CRT -.4877 CRS .0067 CST -.8243
 FDE -1.0068 FRA -.6757 FC3-5.1635 BSP 3578 SGB 1258.7 R23 -.1008 R13 -.9333 LSA 564.8 MSA 144.1 SSA 39.2
 BOE .0869 BRA .3851 BC3 1.3719 FSP -1198 SG1 1150.6 SG2 510.3 THA 69.41 EL1 180.4 EL2 95.1 ALF 152.65

LAUNCH DATE FEB 13 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 279.854

RL 147.72 LAL .00 LOL 144.12 VL 27.854 GAL -6.03 AZL 91.07 MCA 126.89 SMA 129.98 ECC .17162 INC 1.0713 V1 30.162
 RP 108.77 LAP -.86 LOP 271.01 VP 37.673 GAP -3.09 AZP 89.36 TAL 211.72 TAP 338.60 RCA 107.67 APO 152.29 V2 34.839
 RC 76.053 GL -7.23 GP 36.64 ZAL 142.29 ZAP 59.62 ETS 337.48 ZAE 140.30 ETE 60.56 ZAC 113.61 ETC 142.08 CLP -50.93

PLANETOCENTRIC CONIC

C3 16.960 VHL 4.118 DLA -6.14 RAL 4.01 RAD 6567.7 VEL 11.762 PTH 2.08 VHP 4.318 DPA 46.31 RAP 20.42 ECC 1.2791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 52 23 1984.40 -13.40 27.41 221.77 115.18 3 25 27 1384.4 -9.90 20.48
 90.00 13 18 34 5011.14 22.95 220.34 224.31 72.95 14 42 5 4411.1 20.40 212.59
 100.00 4 10 49 1731.40 -14.38 8.32 221.28 116.49 4 39 40 1131.4 -10.71 1.45
 100.00 14 42 49 4739.38 23.99 199.99 223.95 71.61 16 1 49 4139.4 21.25 192.26
 110.00 5 12 23 1538.61 -16.97 352.23 219.83 120.13 5 38 2 938.6 -12.84 345.56
 110.00 15 57.44 4504.93 26.75 181.06 222.82 67.88 17 12 49 3904.9 23.51 173.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0937 TRA -.2963 TC3 .4586 BAU .3328 SGT 575.9 SGR 1213.2 SG3 416.9 ST 180.6 SR 135.0 SS 617.9
 RDE .0429 RRA .2764 RC3 1.3942 FAU .10566 RRT .3801 RRF -.9509 RTF -.3857 CRT -.8959 CRS .6032 CST -.8225
 FDE -1.1687 FRA -.6795 FC3-5.3938 BSP 3857 SGB 1343.0 R23 -.0624 R13 -.9492 LSA 641.8 MSA 139.4 SSA 36.1
 BOE .1031 BRA .4053 BC3 1.4677 FSP -1276 SG1 1237.2 SG2 522.3 THA 77.51 EL1 220.0 EL2 49.2 ALF 144.11

LAUNCH DATE FEB 13 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.880 GAL -6.01 AZL 91.35 MCA 130.05 SMA 130.17 ECC .17010 INC 1.3549 V1 30.162
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.684 GAP -2.59 AZP 89.13 TAL 211.96 TAP 342.00 RCA 108.02 APO 152.31 V2 34.831
 RC 78.340 GL -9.17 GP 39.35 ZAL 142.12 ZAP 64.25 ETS 340.06 ZAE 138.91 ETE 66.75 ZAC 110.81 ETC 142.70 CLP -55.82

PLANETOCENTRIC CONIC
 C3 16.942 VHL 4.116 DLA -7.99 RAL 4.62 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 4.249 DPA 47.94 RAP 16.65 ECC 1.2788
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 9 8 1925.19 -11.66 23.93 222.24 115.99 3 41 13 1325.2 -8.07 17.09
 90.00 13 6 41 5069.88 24.07 224.28 225.52 74.62 14 31 11 4469.9 21.73 216.39
 100.00 4 26 37 1675.22 -12.65 5.04 221.73 117.31 4 54 32 1075.2 -8.89 358.27
 100.00 14 31 53 4795.09 25.13 203.73 225.19 73.26 15 51 48 4195.1 22.60 195.85
 110.00 5 26 4 1489.09 -15.26 349.42 220.23 120.97 5 50 53 889.1 -11.04 342.85
 110.00 15 48 55 4553.98 27.97 184.36 224.12 69.49 17 4 49 3954.0 24.92 176.51

DIFFERENTIAL CORRECTIONS
 TOE -.1138 TRA -.3204 TC3 .3084 BAU .3562
 ROE .1115 RRA .2802 RC3 1.5422 FAU .10803
 FDE -1.3260 FRA -.6560 FC3-5.5205 BSP 4163
 BOE .1593 BRA .4256 BC3 1.5727 FSP -1328

MID-COURSE EXECUTION ACCURACY
 SGT 540.7 SGR 1338.3 SG3 431.2
 RRT .1663 RRF -.9610 RTF -.1653
 SGB 1443.4 R23 -.0248 R13 -.9607
 SG1 1341.9 SG2 531.8 TMA 85.44

ORBIT DETERMINATION ACCURACY
 ST 208.4 SR 198.7 SS 687.0
 CRT -.9723 CRS .8720 CST -.8432
 LSA 731.7 MSA 135.9 SSA 32.7
 EL1 285.9 EL2 33.8 ALF 136.40

LAUNCH DATE FEB 13 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.899 GAL -5.97 AZL 91.67 MCA 133.21 SMA 130.30 ECC .16881 INC 1.6659 V1 30.162
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.691 GAP -2.11 AZP 88.86 TAL 212.08 TAP 345.29 RCA 108.31 APO 152.30 V2 34.824
 RC 80.651 GL -11.29 GP 42.13 ZAL 141.70 ZAP 68.89 ETS 342.95 ZAE 137.15 ETE 72.97 ZAC 107.88 ETC 143.60 CLP -60.94

PLANETOCENTRIC CONIC
 C3 16.988 VHL 4.122 DLA -9.96 RAL 5.42 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 4.220 DPA 49.47 RAP 12.48 ECC 1.2796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 58 1862.01 -9.75 20.27 223.04 116.72 3 59 0 1262.0 -6.09 13.51
 90.00 12 54 14 5134.32 25.16 228.68 227.08 76.57 14 19 48 4534.3 23.07 220.64
 100.00 4 44 23 1615.46 -10.76 1.61 222.51 118.06 5 11 19 1015.5 -6.92 354.93
 100.00 14 20 30 4856.10 26.26 207.91 226.77 75.19 15 41 26 4256.1 23.97 199.86
 110.00 5 41 27 1436.77 -13.41 346.50 220.95 121.74 6 5 24 836.8 -9.11 340.03
 110.00 15 39 55 4607.56 29.19 188.05 225.78 71.37 16 56 43 4007.6 26.37 180.00

DIFFERENTIAL CORRECTIONS
 TOE -.1454 TRA -.3460 TC3 .1363 BAU .3840
 ROE .1906 RRA .2789 RC3 1.6852 FAU .10871
 FDE -1.4806 FRA -.6114 FC3-5.5401 BSP 4564
 BOE .2397 BRA .4444 BC3 1.6907 FSP -1366

MID-COURSE EXECUTION ACCURACY
 SGT 540.2 SGR 1468.0 SG3 439.2
 RRT -.1130 RRF -.9688 RTF .1180
 SGB 1564.2 R23 .0084 R13 -.9688
 SG1 1469.4 SG2 536.2 TMA 92.75

ORBIT DETERMINATION ACCURACY
 ST 249.6 SR 293.0 SS 758.1
 CRT -.9665 CRS .9546 CST -.8737
 LSA 839.1 MSA 133.8 SSA 29.0
 EL1 381.7 EL2 49.2 ALF 130.27

LAUNCH DATE FEB 13 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.912 GAL -5.93 AZL 92.01 MCA 136.37 SMA 130.40 ECC .16772 INC 2.0107 V1 30.162
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.695 GAP -1.65 AZP 88.54 TAL 212.10 TAP 348.46 RCA 108.53 APO 152.27 V2 34.816
 RC 82.981 GL -13.62 GP 44.95 ZAL 141.00 ZAP 73.45 ETS 346.16 ZAE 135.02 ETE 79.10 ZAC 104.89 ETC 144.76 CLP -66.26

PLANETOCENTRIC CONIC
 C3 17.115 VHL 4.137 DLA -12.07 RAL 6.43 RAD 6567.7 VEL 11.769 PTH 2.08 VHP 4.235 DPA 50.89 RAP 7.97 ECC 1.2817
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 24 1793.53 -7.63 16.36 224.21 117.35 4 19 18 1193.5 -3.90 9.66
 90.00 12 40 50 5206.22 26.21 233.69 229.03 78.87 14 7 37 4606.2 24.41 225.48
 100.00 5 4 35 1550.96 -8.67 357.96 223.65 118.72 5 30 26 951.0 -4.77 351.35
 100.00 14 8 21 4924.01 27.36 212.66 228.75 77.46 15 30 25 4324.0 25.36 204.43
 110.00 5 58 55 1380.80 -11.38 343.43 222.03 122.45 6 21 56 780.8 -7.02 337.05
 110.00 15 30 30 4666.94 30.41 192.24 227.85 73.57 16 48 17 4066.9 27.86 183.97

DIFFERENTIAL CORRECTIONS
 TOE -.1933 TRA -.3733 TC3 -.0592 BAU .4144
 ROE .2784 RRA .2683 RC3 1.8100 FAU .10716
 FDE -1.6178 FRA -.5380 FC3-5.4205 BSP 4988
 BOE .3389 BRA .4597 BC3 1.8109 FSP -1368

MID-COURSE EXECUTION ACCURACY
 SGT 594.6 SGR 1592.4 SG3 438.1
 RRT -.3987 RRF -.9746 RTF .4054
 SGB 1699.8 R23 .0363 R13 -.9741
 SG1 1612.2 SG2 538.6 TMA 99.54

ORBIT DETERMINATION ACCURACY
 ST 311.2 SR 404.5 SS 825.5
 CRT -.9641 CRS .9816 CST -.9063
 LSA 961.0 MSA 133.1 SSA 25.3
 EL1 506.1 EL2 66.1 ALF 127.30

LAUNCH DATE FEB 13 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.920 GAL -5.88 AZL 92.40 MCA 139.52 SMA 130.45 ECC .16680 INC 2.3978 V1 30.162
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.694 GAP -1.21 AZP 88.18 TAL 212.00 TAP 351.53 RCA 108.69 APO 152.21 V2 34.810
 RC 85.328 GL -16.20 GP 47.77 ZAL 140.01 ZAP 77.84 ETS 349.72 ZAE 132.56 ETE 85.02 ZAC 101.90 ETC 146.16 CLP -71.74

PLANETOCENTRIC CONIC
 C3 17.346 VHL 4.165 DLA -14.36 RAL 7.67 RAD 6567.7 VEL 11.778 PTH 2.08 VHP 4.296 DPA 52.20 RAP 3.19 ECC 1.2855
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 13 1717.89 -5.24 12.08 225.84 117.87 4 42 51 1117.9 -1.47 5.43
 90.00 12 25 55 5288.07 27.15 239.49 231.43 81.63 13 54 3 4688.1 25.71 231.12
 100.00 5 27 54 1480.17 -6.33 354.01 225.25 119.28 5 52 34 880.2 -2.38 347.45
 100.00 13 54 56 5001.02 28.38 218.16 231.21 80.18 15 18 17 4401.0 26.73 209.74
 110.00 6 18 59 1320.16 -9.15 340.15 223.53 123.08 6 40 59 720.2 -4.73 333.85
 110.00 15 20 20 4733.79 31.59 197.09 230.43 76.22 16 39 14 4133.8 29.38 188.58

DIFFERENTIAL CORRECTIONS
 TOE -.2595 TRA -.3988 TC3 -.2693 BAU .4473
 ROE .3768 RRA .2478 RC3 1.9100 FAU .10351
 FDE -1.7368 FRA -.4430 FC3-5.1663 BSP 5473
 BOE .4575 BRA .4695 BC3 1.9289 FSP -1346

MID-COURSE EXECUTION ACCURACY
 SGT 706.0 SGR 1709.9 SG3 428.7
 RRT -.6140 RRF -.9790 RTF .6206
 SGB 1849.9 R23 .0588 R13 -.9775
 SG1 1769.8 SG2 538.4 TMA 105.72

ORBIT DETERMINATION ACCURACY
 ST 395.4 SR 531.1 SS 890.8
 CRT -.9680 CRS .9919 CST -.9334
 LSA 1101.6 MSA 133.9 SSA 21.7
 EL1 657.2 EL2 80.2 ALF 126.41

LAUNCH DATE FEB 13 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 311.776

RL 147.72 LAL .00 LOL 144.12 VL 27.923 GAL -5.82 AZL 92.84 MCA 142.68 SMA 130.47 ECC .16604 INC 2.8381 V1 30.162
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.691 GAP -.78 AZP 87.74 TAL 211.81 TAP 354.49 RCA 108.81 APO 152.14 V2 34.804
 RC 87.691 GL -19.07 GP 50.60 ZAL 138.69 ZAP 82.00 ETS 353.62 ZAE 129.79 ETE 90.66 ZAC 98.94 ETC 147.78 CLP -77.33

PLANETOCENTRIC CONIC

C3 17.723 VHL 4.210 DLA -16.86 RAL 9.17 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 4.407 DPA 53.40 RAP 358.22 ECC 1.2917
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 32 1632.37 -2.50 7.29 228.04 118.22 5 10 45 1032.4 1.29 .66
 90.00 12 8 34 5383.54 27.91 246.38 234.36 85.00 13 38 18 4783.5 26.92 237.85
 100.00 5 55 16 1400.90 -3.67 349.63 227.39 119.69 6 18 37 800.9 .31 343.10
 100.00 13 39 31 5090.25 29.24 224.65 234.21 83.49 15 4 21 4490.3 28.03 216.05
 110.00 6 42 19 1253.50 -6.65 336.60 225.55 123.61 7 3 13 653.5 -2.19 330.36
 110.00 15 8 58 4810.41 32.70 202.79 233.60 79.42 16 29 8 4210.4 30.89 194.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3475 TRA -.4192 TC3 -.4843 BAU .4821 SGT 863.4 SGR 1817.2 SG3 411.5 ST 505.8 SR 671.1 SS 953.5
 RDE .4870 RRA .2162 RC3 1.9762 FAU .09793 RRT -.7491 RRF -.9824 RTF .7551 CRT -.9740 CRS .9963 CST -.9537
 FDE -1.8348 FRA -.3319 FC3 -4.7838 BSP 6011 SGB 2011.9 R23 .0764 R13 -.9798 LSA 1263.5 MSA 135.8 SSA 18.3
 BDE .5983 BRA .4717 BC3 2.0346 FSP -1299 SG1 1939.2 SG2 536.0 THA 111.30 EL1 835.3 EL2 92.1 ALF 126.80

LAUNCH DATE FEB 13 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 318.076

RL 147.72 LAL .00 LOL 144.12 VL 27.921 GAL -5.75 AZL 93.35 MCA 145.83 SMA 130.46 ECC .16540 INC 3.3469 V1 30.162
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.685 GAP -.38 AZP 87.23 TAL 211.52 TAP 357.34 RCA 108.88 APO 152.04 V2 34.799
 RC 90.065 GL -22.28 GP 53.44 ZAL 136.98 ZAP 85.82 ETS 357.85 ZAE 126.76 ETE 95.98 ZAC 96.07 ETC 149.57 CLP -82.98

PLANETOCENTRIC CONIC

C3 18.304 VHL 4.278 DLA -19.60 RAL 10.97 RAD 6567.7 VEL 11.819 PTH 2.09 VHP 4.576 DPA 54.54 RAP 353.09 ECC 1.3012
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 14 1532.41 .72 1.71 230.99 118.31 5 44 46 932.4 4.50 355.07
 90.00 11 47 16 5498.55 28.31 254.76 237.89 89.18 13 18 55 4898.5 27.89 246.12
 100.00 6 28 15 1309.68 -.59 344.61 230.27 119.89 6 50 5 709.7 3.39 338.09
 100.00 13 20 56 5196.51 29.80 232.49 237.84 87.58 14 47 33 4596.5 29.15 223.75
 110.00 7 9 57 1179.00 -3.83 332.68 228.24 123.99 7 29 36 579.0 .66 326.48
 110.00 14 55 43 4899.95 33.61 209.62 237.49 83.36 16 17 23 4300.0 32.33 200.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4635 TRA -.4318 TC3 -.6950 BAU .5167 SGT 1056.3 SGR 1906.0 SG3 386.2 ST 647.8 SR 819.4 SS 1009.3
 RDE .6082 RRA .1698 RC3 1.9941 FAU .09042 RRT -.8287 RRF -.9850 RTF .8342 CRT -.9796 CRS .9983 CST -.9678
 FDE -1.9033 FRA -.2059 FC3 -4.2769 BSP 6559 SGB 2179.2 R23 .0911 R13 -.9813 LSA 1445.8 MSA 138.7 SSA 15.2
 BDE .7647 BRA .4640 BC3 2.1117 FSP -1224 SG1 2112.9 SG2 533.4 THA 116.49 EL1 1039.4 EL2 102.7 ALF 128.19

LAUNCH DATE FEB 13 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 324.349

RL 147.72 LAL .00 LOL 144.12 VL 27.915 GAL -5.67 AZL 93.95 MCA 148.97 SMA 130.41 ECC .16489 INC 3.9451 V1 30.162
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.676 GAP .01 AZP 86.62 TAL 211.13 TAP .11 RCA 108.91 APO 151.92 V2 34.795
 RC 92.449 GL -25.87 GP 56.32 ZAL 134.85 ZAP 89.25 ETS 2.40 ZAE 123.49 ETE 100.96 ZAC 93.29 ETC 151.52 CLP -88.64

PLANETOCENTRIC CONIC

C3 19.183 VHL 4.380 DLA -22.62 RAL 13.14 RAD 6567.8 VEL 11.856 PTH 2.10 VHP 4.813 DPA 55.65 RAP 347.80 ECC 1.3157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 56 1408.58 4.70 354.79 235.01 117.96 6 28 25 808.6 8.41 348.07
 90.00 11 18 49 5644.44 27.99 265.41 242.02 94.51 12 52 53 5044.4 28.32 256.76
 100.00 7 9 32 1200.07 3.13 338.60 234.14 119.74 7 29 32 600.1 7.06 332.02
 100.00 12 56 54 5328.19 29.78 242.28 242.15 92.72 14 25 42 4728.2 29.84 233.47
 110.00 7 43 25 1093.84 -.58 328.24 231.83 124.18 8 1 39 493.8 3.91 322.03
 110.00 14 39 30 5007.18 34.14 217.94 242.19 88.26 16 2 57 4407.2 33.53 208.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6134 TRA -.4312 TC3 -.8844 BAU .5497 SGT 1271.8 SGR 1972.3 SG3 354.0 ST 823.4 SR 972.5 SS 1056.6
 RDE .7416 RRA .1073 RC3 1.9526 FAU .08131 RRT -.8756 RRF -.9871 RTF .8810 CRT -.9840 CRS .9993 CST -.9775
 FDE -1.9409 FRA -.0737 FC3 -3.6694 BSP 7090 SGB 2346.8 R23 .1036 R13 -.9822 LSA 1649.2 MSA 142.3 SSA 12.4
 BDE .9624 BRA .4444 BC3 2.1436 FSP -1121 SG1 2286.2 SG2 529.9 THA 121.32 EL1 1269.3 EL2 112.4 ALF 130.18

LAUNCH DATE FEB 13 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 330.594

RL 147.72 LAL .00 LOL 144.12 VL 27.905 GAL -5.58 AZL 94.66 MCA 152.12 SMA 130.34 ECC .16448 INC 4.6635 V1 30.162
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.665 GAP .39 AZP 85.88 TAL 210.66 TAP 2.77 RCA 108.90 APO 151.78 V2 34.791
 RC 94.840 GL -29.90 GP 59.28 ZAL 132.23 ZAP 92.20 ETS 7.29 ZAE 120.01 ETE 105.66 ZAC 90.63 ETC 153.62 CLP -94.31

PLANETOCENTRIC CONIC

C3 20.515 VHL 4.529 DLA -25.96 RAL 15.73 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 5.132 DPA 56.76 RAP 342.32 ECC 1.3376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 56 1231.56 10.24 344.73 240.76 116.55 7 31 28 631.6 13.72 337.78
 90.00 10 33 31 5853.37 25.96 280.35 246.47 101.72 12 11 4 5253.4 27.32 271.95
 100.00 8 5 23 1055.77 7.95 330.60 239.54 118.91 8 22 59 455.8 11.75 323.87
 100.00 12 21 46 5504.39 28.51 255.21 247.01 99.40 13 53 30 4904.4 29.51 246.55
 110.00 8 25 26 992.82 3.28 322.96 236.67 124.04 8 41 59 392.8 7.73 316.70
 110.00 14 18 12 5140.10 33.93 228.31 247.77 94.39 15 43 52 4540.1 34.17 219.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8071 TRA -.4118 TC3 -1.0352 BAU .5824 SGT 1502.5 SGR 2025.3 SG3 318.6 ST 1036.1 SR 1132.2 SS 1098.4
 RDE .8941 RRA .0287 RC3 1.8541 FAU .07147 RRT -.9048 RRF -.9889 RTF .9106 CRT -.9874 CRS .9997 CST -.9842
 FDE -1.9569 FRA .0542 FC3 -3.0159 BSP 7702 SGB 2521.8 R23 .1130 R13 -.9831 LSA 1881.6 MSA 145.9 SSA 10.0
 BDE 1.2045 BRA .4128 BC3 2.1235 FSP -1016 SG1 2466.4 SG2 525.5 THA 125.74 EL1 1529.9 EL2 121.2 ALF 132.43

LAUNCH DATE FEB 13 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.891 GAL -5.48 AZL 95.55 MCA 155.25 SMA 130.25 ECC .16417 INC 5.5479 V1 30.162
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.653 GAP .75 AZP 84.96 TAL 210.09 TAP 5.35 RCA 108.86 APO 151.63 V2 34.788
 RC 97.236 GL -34.41 GP 62.40 ZAL 129.10 ZAP 94.61 ETS 12.53 ZAE 116.30 ETE 110.15 ZAC 88.04 ETC 155.93 CLP-100.00

PLANETOCENTRIC CONIC
 C3 22.558 VHL 4.749 OLA -29.61 RAL 18.87 RAD 6567.9 VEL 11.997 PTH 2.14 VHP 5.561 DPA 57.92 RAP 336.49 ECC 1.3712
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.96 7 50 41 1160.38 19.73 344.01 249.71 112.54 8 10 1 560.4 22.62 336.43
 99.04 10 18 47 682.26 19.75 308.89 249.71 112.52 10 30 9 82.3 22.63 301.30
 100.00 9 51 35 769.23 16.87 314.01 248.38 115.05 10 4 24 169.2 20.11 306.71
 100.00 11 0 33 5836.68 22.66 278.10 250.93 110.03 12 37 50 5236.7 25.18 270.21
 110.00 9 21 53 862.87 8.20 316.11 243.42 123.30 9 36 16 262.9 12.52 309.68
 110.00 13 46 45 5315.81 32.21 241.71 254.03 102.13 15 15 21 4715.8 33.54 232.73

DIFFERENTIAL CORRECTIONS
 TOE-1.0601 TRA -3655 TC3-1.1286 BAU .6108 SGT 1744.1 SGR 2051.3 SG3 279.6 ST 1288.2 SR 1284.3 SS 1126.5
 RDE 1.0635 RRA -.0708 RC3 1.6817 FAU .06086 RRT -.9234 RRF -.9904 RTF .9304 CRT -.9900 CRS .9999 CST -.9888
 FDE-1.9420 FRA .1757 FC3-2.3356 BSP 8292 SGB 2692.5 R23 .1205 R13 -.9839 LSA 2134.4 MSA 149.3 SSA 7.9
 BOE 1.5016 BRA .3723 BC3 2.0253 FSP -895 SG1 2641.8 SG2 519.8 THA 130.00 EL1 1814.5 EL2 128.9 ALF 135.09

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 13 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.875 GAL -5.37 AZL 96.67 MCA 158.38 SMA 130.13 ECC .16393 INC 6.6707 V1 30.162
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.638 GAP 1.10 AZP 83.79 TAL 209.45 TAP 7.83 RCA 108.80 APO 151.46 V2 34.786
 RC 99.636 GL -39.42 GP 65.74 ZAL 125.39 ZAP 96.44 ETS 18.25 ZAE 112.35 ETE 114.63 ZAC 85.51 ETC 158.57 CLP-105.83

PLANETOCENTRIC CONIC
 C3 25.776 VHL 5.077 OLA -33.56 RAL 22.67 RAD 6568.0 VEL 12.131 PTH 2.17 VHP 6.139 DPA 59.11 RAP 330.10 ECC 1.4242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.19 6 57 30 1408.12 21.21 3.45 256.85 116.64 7 20 58 808.1 24.61 356.00
 108.81 11 42 21 5787.95 21.23 273.75 256.86 116.63 13 18 49 5187.9 24.62 266.30
 71.19 6 57 30 1408.12 21.21 3.45 256.85 116.64 7 20 58 808.1 24.61 356.00
 108.81 11 42 21 5787.95 21.23 273.75 256.86 116.63 13 18 49 5187.9 24.62 266.30
 110.00 11 0 9 629.12 16.62 303.25 254.22 120.31 11 10 38 29.1 20.53 296.30
 110.00 12 38 52 5614.95 25.96 262.70 259.25 113.06 14 12 27 5014.9 28.85 254.71

DIFFERENTIAL CORRECTIONS
 TOE-1.3962 TRA -.2782 TC3-1.1447 BAU .6320 SGT 1993.9 SGR 2043.3 SG3 238.6 ST 1580.1 SR 1412.5 SS 1137.0
 RDE 1.2490 RRA -.1977 RC3 1.4328 FAU .04986 RRT -.9354 RRF -.9917 RTF .9447 CRT -.9917 CRS 1.0000 CST -.9920
 FDE-1.8962 FRA .2888 FC3-1.6747 BSP 8825 SGB 2855.0 R23 .1262 R13 -.9848 LSA 2400.3 MSA 152.1 SSA 6.2
 BOE 1.8733 BRA .3413 BC3 1.8339 FSP -762 SG1 2808.5 SG2 512.8 THA 134.25 EL1 2115.1 EL2 135.5 ALF 138.23

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 13 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.855 GAL -5.25 AZL 98.15 MCA 161.51 SMA 129.99 ECC .16377 INC 8.1521 V1 30.162
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.622 GAP 1.43 AZP 82.26 TAL 208.72 TAP 10.22 RCA 108.70 APO 151.28 V2 34.784
 RC 102.038 GL -44.88 GP 69.41 ZAL 121.11 ZAP 97.61 ETS 24.72 ZAE 108.07 ETE 119.45 ZAC 82.94 ETC 161.89 CLP-112.13

PLANETOCENTRIC CONIC
 C3 31.067 VHL 5.574 OLA -37.71 RAL 27.33 RAD 6568.2 VEL 12.347 PTH 2.23 VHP 6.939 DPA 60.27 RAP 322.82 ECC 1.5113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.98 6 35 41 1575.78 21.97 17.23 265.86 121.45 7 1 57 975.8 25.97 10.06
 116.02 12 41 20 5713.44 21.99 268.29 265.87 121.44 14 16 34 5113.4 25.98 261.12
 63.98 6 35 41 1575.78 21.97 17.23 265.86 121.45 7 1 57 975.8 25.97 10.06
 116.02 12 41 20 5713.44 21.99 268.29 265.87 121.44 14 16 34 5113.4 25.98 261.12
 63.98 6 35 41 1575.78 21.97 17.23 265.86 121.45 7 1 57 975.8 25.97 10.06
 116.02 12 41 20 5713.44 21.99 268.29 265.87 121.44 14 16 34 5113.4 25.98 261.12

DIFFERENTIAL CORRECTIONS
 TOE-1.8587 TRA -.1287 TC3-1.0720 BAU .6444 SGT 2259.8 SGR 1996.1 SG3 198.1 ST 1911.7 SR 1493.8 SS 1129.8
 RDE 1.4466 RRA -.3525 RC3 1.1217 FAU .03916 RRT -.9441 RRF -.9926 RTF .9571 CRT -.9930 CRS .9999 CST -.9944
 FDE-1.8272 FRA .3840 FC3-1.0912 BSP 9396 SGB 3015.2 R23 .1273 R13 -.9863 LSA 2671.9 MSA 152.7 SSA 4.8
 BOE 2.3553 BRA .3753 BC3 1.5516 FSP -634 SG1 2973.5 SG2 499.9 THA 138.75 EL1 2422.1 EL2 139.4 ALF 142.04

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 13 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.833 GAL -5.12 AZL 100.21 MCA 164.61 SMA 129.83 ECC .16366 INC10.2083 V1 30.162
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.605 GAP 1.75 AZP 80.15 TAL 207.90 TAP 12.51 RCA 108.58 APO 151.08 V2 34.783
 RC 104.441 GL -50.68 GP 73.51 ZAL 116.30 ZAP 98.10 ETS 32.65 ZAE 103.37 ETE 125.44 ZAC 80.23 ETC 166.66 CLP-119.76

PLANETOCENTRIC CONIC
 C3 40.332 VHL 6.351 OLA -41.84 RAL 33.05 RAD 6568.6 VEL 12.716 PTH 2.31 VHP 8.092 DPA 61.26 RAP 314.16 ECC 1.6638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.81 6 29 49 1722.84 21.44 29.24 277.01 126.83 6 58 32 1122.8 26.08 22.53
 122.19 13 32 48 5698.09 21.46 266.61 277.03 126.82 15 7 46 5098.1 26.10 259.90
 57.81 6 29 49 1722.84 21.44 29.24 277.01 126.83 6 58 32 1122.8 26.08 22.53
 122.19 13 32 48 5698.09 21.46 266.61 277.03 126.82 15 7 46 5098.1 26.10 259.90
 57.81 6 29 49 1722.84 21.44 29.24 277.01 126.83 6 58 32 1122.8 26.08 22.53
 122.19 13 32 48 5698.09 21.46 266.61 277.03 126.82 15 7 46 5098.1 26.10 259.90

DIFFERENTIAL CORRECTIONS
 TOE-2.5237 TRA .1342 TC3 -.9038 BAU .6370 SGT 2555.0 SGR 1863.3 SG3 159.0 ST 2277.6 SR 1465.5 SS 1100.3
 RDE 1.6093 RRA -.5416 RC3 .7608 FAU .02882 RRT -.9498 RRF -.9923 RTF .9691 CRT -.9936 CRS .9996 CST -.9962
 FDE-1.7340 FRA .4678 FC3 -.6185 BSP 9858 SGB 3162.3 R23 .1230 R13 -.9883 LSA 2919.5 MSA 149.9 SSA 3.6
 BOE 2.9931 BRA .5580 BC3 1.1813 FSP -505 SG1 3126.2 SG2 476.6 THA 144.34 EL1 2704.8 EL2 139.6 ALF 147.31

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 13 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 361.339

RL 147.72 LAL .00 LOL 144.12 VL 27.808 GAL -4.97 AZL 103.27 HCA 167.69 SMA 129.66 ECC .16359 INC13.2674 V1 30.162
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.587 GAP 2.05 AZP 77.03 TAL 207.00 TAP 14.68 RCA 108.45 APO 150.87 V2 34.783
 RC 106.844 GL -56.49 GP 78.11 ZAL 111.06 ZAP 97.86 ETS 44.16 ZAE 98.00 ETE 134.83 ZAC 77.15 ETC 175.15 CLP-131.61

PLANETOCENTRIC CONIC

C3 58.142 VHL 7.625 DLA -45.53 RAL 39.98 RAD 6569.1 VEL 13.398 PTH 2.45 VHP 9.860 DPA 61.73 RAP 303.59 ECC 1.9569
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.72 6 37 15 1867.97 18.92 40.06 290.31 132.23 7 8 23 1268.0 24.18 33.99
 127.28 14 20 40 5735.50 18.93 267.75 290.32 132.22 15 56 15 5135.5 24.19 261.68
 52.72 6 37 15 1867.97 18.92 40.06 290.31 132.23 7 8 23 1268.0 24.18 33.99
 127.28 14 20 40 5735.50 18.93 267.75 290.32 132.22 15 56 15 5135.5 24.19 261.68
 52.72 6 37 15 1867.97 18.92 40.06 290.31 132.23 7 8 23 1268.0 24.18 33.99
 127.28 14 20 40 5735.50 18.93 267.75 290.32 132.22 15 56 15 5135.5 24.19 261.68

DIFFERENTIAL CORRECTIONS

TDE-3.5543 TRA .6215 TC3 -.6563 BAU .5942
 ROE 1.5531 RRA -.7213 RC3 .3919 FAU .01930
 FDE-1.6348 FRA .5426 FC3 -.2873 BSP 10341
 BOE 3.8788 BRA .9521 BC3 .7644 FSP -392

MID-COURSE EXECUTION ACCURACY

SGT 2929.0 SGR 1522.4 SG3 123.4
 RRT -.9488 RRF -.9869 RTF .9819
 SGB 3301.0 R23 .1097 R13 -.9913
 SG1 3272.8 SG2 430.4 THA 153.25

ORBIT DETERMINATION ACCURACY

ST 2678.4 SR 1190.0 SS 1057.1
 CRT -.9926 CRS .9985 CST -.9978
 LSA 3112.5 MSA 139.9 SSA 2.6
 EL1 2927.9 EL2 132.1 ALF 156.15

LAUNCH DATE FEB 13 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 367.328

RL 147.72 LAL .00 LOL 144.12 VL 27.781 GAL -4.80 AZL 108.30 HCA 170.71 SMA 129.47 ECC .16350 INC18.2984 V1 30.162
 RP 108.94 LAP -2.91 LOP 315.28 VP 37.567 GAP 2.32 AZP 71.93 TAL 205.98 TAP 16.68 RCA 108.30 APO 150.63 V2 34.784
 RC 109.246 GL -61.61 GP 82.71 ZAL 105.59 ZAP 96.89 ETS 67.08 ZAE 91.49 ETE 155.59 ZAC 73.25 ETC 195.39 CLP-161.11

PLANETOCENTRIC CONIC

C3 97.622 VHL 9.880 DLA -48.01 RAL 47.99 RAD 6569.9 VEL 14.797 PTH 2.67 VHP 12.836 DPA 60.96 RAP 290.64 ECC 2.6066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.45 6 57 33 2017.43 13.89 49.16 305.11 136.44 7 31 11 1417.4 19.62 43.73
 130.55 15 4 17 5826.13 13.91 271.24 305.13 136.44 16 41 23 5226.1 19.63 265.82
 49.45 6 57 33 2017.43 13.89 49.16 305.11 136.44 7 31 11 1417.4 19.62 43.73
 130.55 15 4 17 5826.13 13.91 271.24 305.13 136.44 16 41 23 5226.1 19.63 265.82
 49.45 6 57 33 2017.43 13.89 49.16 305.11 136.44 7 31 11 1417.4 19.62 43.73
 130.55 15 4 17 5826.13 13.91 271.24 305.13 136.44 16 41 23 5226.1 19.63 265.82

DIFFERENTIAL CORRECTIONS

TDE-5.1751 TRA 1.6164 TC3 -.3457 BAU .4612
 ROE .2089 RRA -.5385 RC3 .0730 FAU .01023
 FDE-1.5620 FRA .6367 FC3 -.0908 BSP 10707
 BOE 5.1793 BRA 1.7037 BC3 .3534 FSP -294

MID-COURSE EXECUTION ACCURACY

SGT 3381.7 SGR 503.4 SG3 92.9
 RRT -.6557 RRF -.7262 RTF .9935
 SGB 3419.0 R23 .0881 R13 -.9945
 SG1 3398.0 SG2 378.3 THA 174.36

ORBIT DETERMINATION ACCURACY

ST 3030.4 SR 185.2 SS 1021.2
 CRT -.7527 CRS .7794 CST -.9991
 LSA 3200.6 MSA 127.7 SSA 1.9
 EL1 3033.6 EL2 121.8 ALF 177.36

LAUNCH DATE FEB 13 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 373.155

RL 147.72 LAL .00 LOL 144.12 VL 27.752 GAL -4.59 AZL 117.94 HCA 173.59 SMA 129.27 ECC .16326 INC27.9426 V1 30.162
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.547 GAP 2.55 AZP 62.21 TAL 204.77 TAP 18.36 RCA 108.16 APO 150.37 V2 34.785
 RC 111.645 GL -64.20 GP 81.64 ZAL 100.21 ZAP 95.25 ETS 120.92 ZAE 82.60 ETE 207.34 ZAC 67.43 ETC 247.42 CLP 128.99

PLANETOCENTRIC CONIC

C3 207.286 VHL 14.397 DLA -47.67 RAL 56.00 RAD 6571.2 VEL 18.127 PTH 3.02 VHP 18.603 DPA 57.29 RAP 275.36 ECC 4.4114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.90 7 31 1 2152.54 6.93 54.71 319.62 137.28 8 6 54 1552.5 12.77 49.58
 130.10 15 34 40 680.82 6.94 299.64 319.64 137.28 15 46 1 80.8 12.78 294.50
 49.90 7 31 1 2152.54 6.93 54.71 319.62 137.28 8 6 54 1552.5 12.77 49.58
 130.10 15 34 40 680.82 6.94 299.64 319.64 137.28 15 46 1 80.8 12.78 294.50
 49.90 7 31 1 2152.54 6.93 54.71 319.62 137.28 8 6 54 1552.5 12.77 49.58
 130.10 15 34 40 680.82 6.94 299.64 319.64 137.28 15 46 1 80.8 12.78 294.50

DIFFERENTIAL CORRECTIONS

TDE-3.7066 TRA 2.5975 TC3 -.0390 BAU .1156
 ROE-6.3098 RRA 1.9548 RC3 .0148 FAU-.00037
 FDE-1.6164 FRA .8298 FC3 .0015 BSP 11035
 BOE 7.3180 BRA 3.2504 BC3 .0417 FSP -224

MID-COURSE EXECUTION ACCURACY

SGT 2131.8 SGR 2764.2 SG3 69.9
 RRT .9286 RRF .9758 RTF .9865
 SGB 3490.7 R23 -.0788 R13 .9964
 SG1 3432.1 SG2 637.3 THA 52.90

ORBIT DETERMINATION ACCURACY

ST 1545.3 SR 2534.8 SS 1060.6
 CRT -.9863 CRS -.9962 CST -.9970
 LSA 3144.6 MSA 222.2 SSA 1.1
 EL1 2960.7 EL2 218.0 ALF 58.79

LAUNCH DATE FEB 13 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 378.494

RL 147.72 LAL .00 LOL 144.12 VL 27.722 GAL -4.28 AZL 140.95 HCA 176.03 SMA 129.05 ECC .16240 INC50.9513 V1 30.162
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.527 GAP 2.64 AZP 39.12 TAL 203.08 TAP 19.11 RCA 108.09 APO 150.01 V2 34.787
 RC 114.042 GL -58.87 GP 67.98 ZAL 95.49 ZAP 93.17 ETS 163.12 ZAE 67.22 ETE 247.40 ZAC 56.18 ETC 290.85 CLP 98.49

PLANETOCENTRIC CONIC

C3 629.103 VHL 25.082 DLA -40.08 RAL 60.62 RAD 6572.6 VEL 27.393 PTH 3.40 VHP 31.998 DPA 46.07 RAP 258.94 ECC11.3534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.36 8 31 4 2160.00 .86 49.59 329.58 130.07 9 7 4 1560.0 6.00 43.86
 119.64 15 11 32 909.82 .88 314.43 329.59 130.07 15 26 42 309.8 6.01 308.70
 60.36 8 31 4 2160.00 .86 49.59 329.58 130.07 9 7 4 1560.0 6.00 43.86
 119.64 15 11 32 909.82 .88 314.43 329.59 130.07 15 26 42 309.8 6.01 308.70
 60.36 8 31 4 2160.00 .86 49.59 329.58 130.07 9 7 4 1560.0 6.00 43.86
 119.64 15 11 32 909.82 .88 314.43 329.59 130.07 15 26 42 309.8 6.01 308.70

DIFFERENTIAL CORRECTIONS

TDE 2.6690 TRA 1.1689 TC3 -.0371 BAU 1.5726
 RO-10.6606 RRA 6.7833 RC3 .1833 FAU-.02537
 FDE-2.0167 FRA 1.4220 FC3 .0349 BSP 10521
 BOE10.9897 BRA 6.8832 BC3 .1870 FSP -180

MID-COURSE EXECUTION ACCURACY

SGT 726.7 SGR 3298.0 SG3 56.2
 RRT -.3960 RRF .9988 RTF -.3497
 SGB 3377.1 R23 -.0681 R13 .9977
 SG1 3311.0 SG2 664.7 THA 95.20

ORBIT DETERMINATION ACCURACY

ST 618.6 SR 2510.0 SS 1321.4
 CRT -.9153 CRS -.9997 CST .9049
 LSA 2892.6 MSA 249.1 SSA .3
 EL1 2573.7 EL2 243.0 ALF 102.83

LAUNCH DATE FEB 13 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.690 GAL -4.97 AZL 11.84 HCA 183.22 SMA 128.83 ECC .16982 INC78.1566 V1 30.162
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.505 GAP 4.09 AZP 168.14 TAL 205.71 TAP 28.93 RCA 106.95 APO 150.71 V2 34.790
 RC 116.435 GL 47.60 GP -54.03 ZAL 94.28 ZAP 93.48 ETS 179.37 ZAE 56.22 ETE 97.98 ZAC 71.42 ETC 59.32 CLP 95.93

PLANETOCENTRIC CONIC
 C31336.537 VHL 36.559 DLA 61.18 RAL 19.91 RAD 6573.1 VEL 38.181 PTH 3.55 VHP 45.020 DPA -68.75 RAP 203.10 ECC22.9960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.20 16 16 45 5056.97 1.05 241.66 290.50 28.83 17 41 2 4457.0 -5.95 238.21
 146.80 2 1 2 3376.12 1.06 103.18 290.48 28.83 2 57 18 2776.1 -5.94 99.73
 33.20 16 16 45 5056.97 1.05 241.66 290.50 28.83 17 41 2 4457.0 -5.95 238.21
 146.80 2 1 2 3376.12 1.06 103.18 290.48 28.83 2 57 18 2776.1 -5.94 99.73
 33.20 16 16 45 5056.97 1.05 241.66 290.50 28.83 17 41 2 4457.0 -5.95 238.21
 146.80 2 1 2 3376.12 1.06 103.18 290.48 28.83 2 57 18 2776.1 -5.94 99.73

DIFFERENTIAL CORRECTIONS
 TDE -4.7861 TRA 1.9822 TC3 -.1014 BAU 3.9847
 RO -15.7951 RRA .8517 RC3 -.1986 FAU -.06423
 FOE 3.4020 FRA -.1782 FC3 .0416 BSP 9485
 BOE16.5043 BRA 2.1574 BC3 .2230 FSP -171

MID-COURSE EXECUTION ACCURACY
 SGT 1236.1 SGR 2883.3 SG3 53.3
 RRT .8732 RRF -.9999 RTF -.8697
 SGB 3137.1 R23 -.0778 R13 -.9969
 SG1 3086.2 SG2 562.7 THA 68.73

ORBIT DETERMINATION ACCURACY
 ST 774.9 SR 2477.2 SS 2075.3
 CRT .9781 CRS 1.0000 CST .9759
 LSA 3319.2 MSA 164.2 SSA .8
 EL1 2590.6 EL2 160.9 ALF 72.95

LAUNCH DATE FEB 13 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.656 GAL -4.50 AZL 49.89 HCA 185.00 SMA 128.60 ECC .16771 INC40.1103 V1 30.162
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.484 GAP 3.98 AZP 130.00 TAL 203.40 TAP 28.40 RCA 107.03 APO 150.17 V2 34.794
 RC 118.823 GL 62.08 GP -75.00 ZAL 97.15 ZAP 96.30 ETS 191.17 ZAE 78.75 ETE 108.92 ZAC 89.23 ETC 74.57 CLP 115.07

PLANETOCENTRIC CONIC
 C3 404.111 VHL 20.103 DLA 68.00 RAL 347.21 RAD 6572.1 VEL 22.922 PTH 3.27 VHP 24.325 DPA -79.46 RAP 118.39 ECC 7.6506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.19 13 47 41 5012.77 -3.54 244.51 255.79 22.05 15 11 14 4412.8 -10.94 241.87
 154.81 0 9 13 3272.90 -3.53 96.93 255.77 22.05 1 3 46 2672.9 -10.93 94.30
 25.19 13 47 41 5012.77 -3.54 244.51 255.79 22.05 15 11 14 4412.8 -10.94 241.87
 154.81 0 9 13 3272.90 -3.53 96.93 255.77 22.05 1 3 46 2672.9 -10.93 94.30
 25.19 13 47 41 5012.77 -3.54 244.51 255.79 22.05 15 11 14 4412.8 -10.94 241.87
 154.81 0 9 13 3272.90 -3.53 96.93 255.77 22.05 1 3 46 2672.9 -10.93 94.30

DIFFERENTIAL CORRECTIONS
 TDE .8990 TRA 1.0151 TC3 -.0433 BAU .8512
 RDE -8.8869 RRA 3.3479 RC3 -.1515 FAU -.01076
 FOE 1.8836 FRA -.6452 FC3 .0231 BSP 11476
 BOE 8.9322 BRA 3.4984 BC3 .1576 FSP -203

MID-COURSE EXECUTION ACCURACY
 SGT 832.0 SGR 3643.1 SG3 63.4
 RRT .4696 RRF -.9980 RTF -.4222
 SGB 3736.9 R23 -.0749 R13 -.9966
 SG1 3664.9 SG2 730.1 THA 83.62

ORBIT DETERMINATION ACCURACY
 ST 345.5 SR 2645.7 SS 1170.0
 CRT -.5163 CRS .9997 CST -.5378
 LSA 2898.4 MSA 295.8 SSA 1.5
 EL1 2651.8 EL2 295.2 ALF 93.91

LAUNCH DATE FEB 13 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.621 GAL -4.22 AZL 64.84 HCA 187.72 SMA 128.36 ECC .16746 INC25.1558 V1 30.162
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.462 GAP 4.13 AZP 114.96 TAL 201.86 TAP 29.58 RCA 106.87 APO 149.85 V2 34.798
 RC 121.206 GL 63.90 GP -79.37 ZAL 100.45 ZAP 100.32 ETS 243.87 ZAE 90.45 ETE 161.35 ZAC 97.55 ETC 128.25 CLP 166.26

PLANETOCENTRIC CONIC
 C3 170.017 VHL 13.039 DLA 65.62 RAL 337.67 RAD 6570.8 VEL 17.069 PTH 2.93 VHP 15.500 DPA -72.38 RAP 74.88 ECC 3.7981
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.97 13 15 51 4889.83 -10.53 240.06 242.85 24.83 14 37 20 4289.8 -17.76 236.96
 152.03 23 21 0 3168.01 -10.52 95.53 242.83 24.83 24 13 48 2568.0 -17.75 92.43
 27.97 13 15 51 4889.83 -10.53 240.06 242.85 24.83 14 37 20 4289.8 -17.76 236.96
 152.03 23 21 0 3168.01 -10.52 95.53 242.83 24.83 24 13 48 2568.0 -17.75 92.43
 27.97 13 15 51 4889.83 -10.53 240.06 242.85 24.83 14 37 20 4289.8 -17.76 236.96
 152.03 23 21 0 3168.01 -10.52 95.53 242.83 24.83 24 13 48 2568.0 -17.75 92.43

DIFFERENTIAL CORRECTIONS
 TDE 4.1626 TRA -1.9969 TC3 -.0671 BAU .1610
 RDE -2.4044 RRA 2.3977 RC3 .0228 FAU .00757
 FOE 1.3321 FRA -.7119 FC3 -.0386 BSP 12415
 BOE 4.8071 BRA 3.1204 BC3 .0708 FSP -272

MID-COURSE EXECUTION ACCURACY
 SGT 2809.6 SGR 2762.8 SG3 83.2
 RRT -.9491 RRF -.9618 RTF .9977
 SGB 3940.4 R23 -.1099 R13 -.9928
 SG1 3889.9 SG2 628.4 THA 135.51

ORBIT DETERMINATION ACCURACY
 ST 1937.1 SR 1304.8 SS 840.9
 CRT -.9578 CRS .9672 CST -.9994
 LSA 2462.0 MSA 317.0 SSA 1.8
 EL1 2314.3 EL2 314.0 ALF 146.47

LAUNCH DATE FEB 13 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.586 GAL -3.99 AZL 71.81 HCA 190.69 SMA 128.11 ECC .16773 INC18.1867 V1 30.162
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.440 GAP 4.34 AZP 107.89 TAL 200.50 TAP 31.19 RCA 106.63 APO 149.60 V2 34.803
 RC 123.581 GL 61.81 GP -74.52 ZAL 103.34 ZAP 104.83 ETS 288.26 ZAE 98.15 ETE 204.99 ZAC 102.47 ETC 172.91 CLP -163.55

PLANETOCENTRIC CONIC
 C3 94.957 VHL 9.745 DLA 62.58 RAL 338.54 RAD 6569.9 VEL 14.707 PTH 2.66 VHP 11.441 DPA -65.33 RAP 60.18 ECC 2.5627
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.54 13 27 42 4763.24 -17.04 234.18 239.41 28.79 14 47 5 4163.2 -24.00 230.39
 148.46 23 16 9 3068.33 -17.03 93.73 239.39 28.79 24 7 17 2468.3 -23.99 89.94
 31.54 13 27 42 4763.24 -17.04 234.18 239.41 28.79 14 47 5 4163.2 -24.00 230.39
 148.46 23 16 9 3068.33 -17.03 93.73 239.39 28.79 24 7 17 2468.3 -23.99 89.94
 31.54 13 27 42 4763.24 -17.04 234.18 239.41 28.79 14 47 5 4163.2 -24.00 230.39
 148.46 23 16 9 3068.33 -17.03 93.73 239.39 28.79 24 7 17 2468.3 -23.99 89.94

DIFFERENTIAL CORRECTIONS
 TDE 3.4638 TRA -2.6643 TC3 -.3788 BAU .4827
 RDE .6081 RRA .1402 RC3 -.0336 FAU .01875
 FOE 1.2949 FRA -.7507 FC3 -.1710 BSP 12729
 BOE 3.5168 BRA 2.6680 BC3 .3803 FSP -358

MID-COURSE EXECUTION ACCURACY
 SGT 4033.3 SGR 405.2 SG3 109.6
 RRT .1024 RRF .2381 RTF .9884
 SGB 4053.6 R23 .1366 R13 .9886
 SG1 4033.5 SG2 403.1 THA .60

ORBIT DETERMINATION ACCURACY
 ST 2278.2 SR 361.6 SS 804.6
 CRT .8175 CRS -.8726 CST -.9947
 LSA 2433.3 MSA 217.9 SSA 2.2
 EL1 2297.4 EL2 206.5 ALF 7.45

LAUNCH DATE FEB 13 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 410.757

RL 147.72 LAL .00 LOL 144.12 VL 27.549 GAL -3.76 AZL 75.75 MCA 193.74 SMA 127.86 ECC .16825 INC14.2509 V1 30.162
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.418 GAP 4.58 AZP 103.86 TAL 199.18 TAP 32.92 RCA 106.35 APO 149.38 V2 34.808
 RC 125.948 GL 58.69 GP -68.24 ZAL 105.66 ZAP 109.52 ETS 300.41 ZAE 104.09 ETE 215.79 ZAC 106.05 ETC 184.86 CLP-154.35

PLANETOCENTRIC CONIC

C3 62.728 VHL 7.920 DLA 59.78 RAL 342.06 RAD 6569.2 VEL 13.568 PTH 2.48 VHP 9.259 DPA -58.94 RAP 52.22 ECC 2.0323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.88 13 49 59 4653.01 -22.08 228.05 238.41 32.90 15 7 32 4053.0 -28.71 223.53
 145.12 23 21 56 2987.39 -22.06 91.61 238.39 32.90 24 11 44 2387.4 -28.70 87.09
 34.88 13 49 59 4653.01 -22.08 228.05 238.41 32.90 15 7 32 4053.0 -28.71 223.53
 145.12 23 21 56 2987.39 -22.06 91.61 238.39 32.90 24 11 44 2387.4 -28.70 87.09
 34.88 13 49 59 4653.01 -22.08 228.05 238.41 32.90 15 7 32 4053.0 -28.71 223.53
 145.12 23 21 56 2987.39 -22.06 91.61 238.39 32.90 24 11 44 2387.4 -28.70 87.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7684 TRA-2.3140 TC3 -.7394 BAU .6383 SGT 4054.7 SGR 891.6 SG3 139.8 ST 2337.7 SR 736.2 SS 837.1
 RDE 1.0016 RRA -.3017 RC3 -.1807 FAU .02846 RRT .8930 RRF .9570 RTF .9801 CRT .9598 CRS -.9889 CST -.9908
 FDE 1.3698 FRA -.7781 FC3 -.3928 BSP 13164 SGB 4151.6 R23 .1632 R13 .9833 LSA 2490.8 MSA 214.8 SSA 2.9
 BDE 2.9440 BRA 2.3335 BC3 .7611 FSP -466 SG1 4132.9 SG2 393.7 THA 11.21 EL1 2347.5 EL2 197.0 ALF 17.65

LAUNCH DATE FEB 13 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 416.702

RL 147.72 LAL .00 LOL 144.12 VL 27.511 GAL -3.53 AZL 78.27 MCA 196.84 SMA 127.61 ECC .16890 INC11.7314 V1 30.162
 RP 108.85 LAP -3.38 LOP 340.62 VP 37.396 GAP 4.82 AZP 101.24 TAL 197.84 TAP 34.68 RCA 106.05 APO 149.16 V2 34.815
 RC 128.306 GL 55.41 GP -62.20 ZAL 107.37 ZAP 114.17 ETS 304.78 ZAE 108.93 ETE 218.27 ZAC 108.99 ETC 188.63 CLP-151.41

PLANETOCENTRIC CONIC

C3 45.993 VHL 6.782 DLA 57.28 RAL 346.18 RAD 6568.7 VEL 12.937 PTH 2.36 VHP 7.965 DPA -53.02 RAP 47.21 ECC 1.7569
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.88 14 14 13 4561.32 -25.68 222.15 238.20 36.85 15 30 14 3961.3 -31.97 216.92
 142.12 23 30 33 2925.79 -25.67 89.50 238.18 36.85 24 19 18 2325.8 -31.96 84.28
 37.88 14 14 13 4561.32 -25.68 222.15 238.20 36.85 15 30 14 3961.3 -31.97 216.92
 142.12 23 30 33 2925.79 -25.67 89.50 238.18 36.85 24 19 18 2325.8 -31.96 84.28
 37.88 14 14 13 4561.32 -25.68 222.15 238.20 36.85 15 30 14 3961.3 -31.97 216.92
 142.12 23 30 33 2925.79 -25.67 89.50 238.18 36.85 24 19 18 2325.8 -31.96 84.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.5429 TRA-1.9396 TC3 -1.0440 BAU .6612 SGT 3976.2 SGR 1032.3 SG3 163.2 ST 2333.3 SR 876.5 SS 919.7
 RDE 1.0257 RRA -.2807 RC3 -.2579 FAU .03323 RRT .8982 RRF .9713 RTF .9669 CRT .9690 CRS -.9955 CST -.9880
 FDE 1.5343 FRA -.6916 FC3 -.6255 BSP 10608 SGB 4108.1 R23 .2092 R13 .9726 LSA 2646.8 MSA 230.3 SSA 3.5
 BDE 2.7420 BRA 1.9598 BC3 1.0754 FSP -400 SG1 4084.2 SG2 441.9 THA 13.28 EL1 2484.2 EL2 203.5 ALF 20.14

LAUNCH DATE FEB 13 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 422.633

RL 147.72 LAL .00 LOL 144.12 VL 27.472 GAL -3.30 AZL 80.02 MCA 199.96 SMA 127.35 ECC .16973 INC 9.9775 V1 30.162
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.375 GAP 5.07 AZP 99.39 TAL 196.52 TAP 36.48 RCA 105.73 APO 148.96 V2 34.821
 RC 130.653 GL 52.22 GP -56.62 ZAL 108.54 ZAP 118.68 ETS 306.88 ZAE 112.94 ETE 218.03 ZAC 111.54 ETC 189.84 CLP-150.73

PLANETOCENTRIC CONIC

C3 36.147 VHL 6.012 DLA 55.06 RAL 350.32 RAD 6568.4 VEL 12.551 PTH 2.27 VHP 7.154 DPA -47.50 RAP 43.87 ECC 1.5949
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.58 14 38 10 4485.32 -28.15 216.65 238.38 40.51 15 52 55 3885.3 -34.09 210.80
 139.42 23 39 38 2880.26 -28.14 87.60 238.36 40.50 24 27 38 2280.3 -34.08 81.75
 40.58 14 38 10 4485.32 -28.15 216.65 238.38 40.51 15 52 55 3885.3 -34.09 210.80
 139.42 23 39 38 2880.26 -28.14 87.60 238.36 40.50 24 27 38 2280.3 -34.08 81.75
 40.58 14 38 10 4485.32 -28.15 216.65 238.38 40.51 15 52 55 3885.3 -34.09 210.80
 139.42 23 39 38 2880.26 -28.14 87.60 238.36 40.50 24 27 38 2280.3 -34.08 81.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2537 TRA-1.8261 TC3 -1.5461 BAU .7722 SGT 4159.5 SGR 1088.9 SG3 196.6 ST 2333.9 SR 854.1 SS 926.9
 RDE .8825 RRA -.2960 RC3 -.4039 FAU .04382 RRT .9285 RRF .9820 RTF .9672 CRT .9742 CRS -.9974 CST -.9878
 FDE 1.5259 FRA -.7291 FC3 -1.0494 BSP 13313 SGB 4299.7 R23 .2041 R13 .9720 LSA 2643.8 MSA 213.4 SSA 4.4
 BDE 2.4203 BRA 1.8499 BC3 1.5979 FSP -640 SG1 4281.7 SG2 392.8 THA 13.78 EL1 2478.6 EL2 181.4 ALF 19.73

LAUNCH DATE FEB 13 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 428.573

RL 147.72 LAL .00 LOL 144.12 VL 27.433 GAL -3.06 AZL 81.32 MCA 203.09 SMA 127.09 ECC .17066 INC 8.6814 V1 30.162
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.353 GAP 5.32 AZP 98.00 TAL 195.16 TAP 38.25 RCA 105.40 APO 148.78 V2 34.829
 RC 132.989 GL 49.24 GP -51.57 ZAL 109.20 ZAP 122.93 ETS 308.17 ZAE 116.23 ETE 216.70 ZAC 113.85 ETC 190.06 CLP-150.99

PLANETOCENTRIC CONIC

C3 29.804 VHL 5.459 DLA 53.13 RAL 354.37 RAD 6568.2 VEL 12.295 PTH 2.21 VHP 6.631 DPA -42.40 RAP 41.68 ECC 1.4905
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.96 15 1 10 4421.92 -29.83 211.68 238.91 43.76 16 14 52 3821.9 -35.44 205.31
 137.04 23 48 56 2846.47 -29.82 85.94 238.90 43.75 24 36 22 2246.5 -35.42 79.58
 42.96 15 1 10 4421.92 -29.83 211.68 238.91 43.76 16 14 52 3821.9 -35.44 205.31
 137.04 23 48 56 2846.47 -29.82 85.94 238.90 43.75 24 36 22 2246.5 -35.42 79.58
 42.96 15 1 10 4421.92 -29.83 211.68 238.91 43.76 16 14 52 3821.9 -35.44 205.31
 137.04 23 48 56 2846.47 -29.82 85.94 238.90 43.75 24 36 22 2246.5 -35.42 79.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1218 TRA-1.6614 TC3 -1.9963 BAU .8179 SGT 4261.0 SGR 1059.7 SG3 220.7 ST 2392.3 SR 827.6 SS 952.2
 RDE .7789 RRA -.2440 RC3 -.4781 FAU .04995 RRT .9299 RRF .9810 RTF .9629 CRT .9764 CRS -.9983 CST -.9873
 FDE 1.5471 FRA -.6710 FC3 -1.4510 BSP 13736 SGB 4390.8 R23 .2132 R13 .9674 LSA 2696.5 MSA 208.5 SSA 5.3
 BDE 2.2603 BRA 1.6792 BC3 2.0527 FSP -732 SG1 4374.3 SG2 379.7 THA 13.12 EL1 2525.7 EL2 169.4 ALF 18.75

LAUNCH DATE FEB 13 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 13 1969

DISTANCE 434.510

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.394 GAL -2.81 AZL 82.32 HCA 206.23 SMA 126.82 ECC .17171 INC 7.6803 V1 30.162
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.331 GAP 5.57 AZP 96.90 TAL 193.78 TAP 40.02 RCA 105.05 APO 148.60 V2 34.837
 RC 135.313 GL 46.46 GP -47.04 ZAL 109.39 ZAP 126.88 ETS 309.12 ZAE 118.92 ETE 214.87 ZAC 115.99 ETC 189.83 CLP-151.71

PLANETOCENTRIC CONIC
 C3 25.446 VHL 5.044 DLA 51.46 RAL 358.32 RAD 6568.0 VEL 12.117 PTH 2.17 VHP 6.291 DPA -37.72 RAP 40.28 ECC 1.4188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.05 15 23 14 4368.35 -30.96 207.24 239.79 46.60 16 36 2 3768.3 -36.26 200.46
 134.95 0 2 18 2821.35 -30.95 84.56 239.77 46.59 0 49 20 2221.4 -36.25 77.77
 45.05 15 23 14 4368.35 -30.96 207.24 239.79 46.60 16 36 2 3768.3 -36.26 200.46
 134.95 0 2 18 2821.35 -30.95 84.56 239.77 46.59 0 49 20 2221.4 -36.25 77.77
 45.05 15 23 14 4368.35 -30.96 207.24 239.79 46.60 16 36 2 3768.3 -36.26 200.46
 134.95 0 2 18 2821.35 -30.95 84.56 239.77 46.59 0 49 20 2221.4 -36.25 77.77

DIFFERENTIAL CORRECTIONS
 TDE 2.0327 TRA-1.5044 TC3-2.4524 BAU .8529
 RDE .6898 RRA -.1906 RC3 -.5215 FAU .05433
 FDE 1.5424 FRA -.5839 FC3-1.8486 BSP 14023
 BDE 2.1465 BRA 1.5214 BC3 2.5073 FSP -797

MID-COURSE EXECUTION ACCURACY
 SGT 4361.6 SGR 1005.6 SG3 239.4
 RRT .9271 RRF .9772 RTF .9587
 SGB 4476.1 R23 .2189 R13 .9627
 SG1 4460.9 SG2 368.5 THA 12.15

ORBIT DETERMINATION ACCURACY
 ST 2453.1 SR 790.5 SS 968.4
 CRT .9778 CRS -.9988 CST -.9867
 LSA 2745.6 MSA 204.5 SSA 6.3
 EL1 2572.4 EL2 158.1 ALF 17.56

LAUNCH DATE FEB 13 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 15 1969

DISTANCE 440.439

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.354 GAL -2.55 AZL 83.12 HCA 209.38 SMA 126.56 ECC .17288 INC 6.8796 V1 30.162
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.310 GAP 5.82 AZP 96.00 TAL 192.38 TAP 41.77 RCA 104.68 APO 148.44 V2 34.846
 RC 137.625 GL 43.88 GP -43.01 ZAL 109.17 ZAP 130.51 ETS 309.90 ZAE 121.10 ETE 212.83 ZAC 118.04 ETC 189.40 CLP-152.66

PLANETOCENTRIC CONIC
 C3 22.301 VHL 4.722 DLA 50.02 RAL 2.20 RAD 6567.9 VEL 11.987 PTH 2.14 VHP 6.074 DPA -33.44 RAP 39.49 ECC 1.3670
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.88 15 44 31 4322.57 -31.72 203.31 241.00 49.06 16 56 33 3722.6 -36.74 196.19
 133.12 0 12 0 2802.56 -31.70 83.41 240.99 49.05 0 58 43 2202.6 -36.73 76.30
 46.88 15 44 31 4322.57 -31.72 203.31 241.00 49.06 16 56 33 3722.6 -36.74 196.19
 133.12 0 12 0 2802.56 -31.70 83.41 240.99 49.05 0 58 43 2202.6 -36.73 76.30
 46.88 15 44 31 4322.57 -31.72 203.31 241.00 49.06 16 56 33 3722.6 -36.74 196.19
 133.12 0 12 0 2802.56 -31.70 83.41 240.99 49.05 0 58 43 2202.6 -36.73 76.30

DIFFERENTIAL CORRECTIONS
 TDE 1.9667 TRA-1.3669 TC3-2.9131 BAU .8834
 RDE .6148 RRA -.1442 RC3 -.5422 FAU .05725
 FDE 1.5125 FRA -.4811 FC3-2.2224 BSP 14326
 BDE 2.0606 BRA 1.3745 BC3 2.9631 FSP -846

MID-COURSE EXECUTION ACCURACY
 SGT 4463.8 SGR 944.9 SG3 253.4
 RRT .9227 RRF .9713 RTF .9549
 SGB 4562.7 R23 .2192 R13 .9584
 SG1 4548.7 SG2 357.5 THA 11.12

ORBIT DETERMINATION ACCURACY
 ST 2510.1 SR 750.6 SS 974.2
 CRT .9791 CRS -.9992 CST -.9862
 LSA 2788.0 MSA 200.1 SSA 7.4
 EL1 2615.8 EL2 146.6 ALF 16.37

LAUNCH DATE FEB 13 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 17 1969

DISTANCE 446.358

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.313 GAL -2.29 AZL 83.78 HCA 212.54 SMA 126.29 ECC .17417 INC 6.2212 V1 30.162
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.289 GAP 6.08 AZP 95.25 TAL 190.96 TAP 43.50 RCA 104.30 APO 148.29 V2 34.855
 RC 139.923 GL 41.47 GP -39.44 ZAL 108.56 ZAP 133.83 ETS 310.57 ZAE 122.84 ETE 210.75 ZAC 120.01 ETC 188.90 CLP-153.72

PLANETOCENTRIC CONIC
 C3 19.945 VHL 4.466 DLA 48.76 RAL 6.06 RAD 6567.8 VEL 11.888 PTH 2.11 VHP 5.944 DPA -29.55 RAP 39.17 ECC 1.3282
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.48 16 5 10 4283.12 -32.22 199.85 242.55 51.18 17 16 33 3683.1 -37.00 192.46
 131.52 0 22 8 2788.37 -32.20 82.48 242.53 51.17 1 8 36 2188.4 -36.98 75.10
 48.48 16 5 10 4283.12 -32.22 199.85 242.55 51.18 17 16 33 3683.1 -37.00 192.46
 131.52 0 22 8 2788.37 -32.20 82.48 242.53 51.17 1 8 36 2188.4 -36.98 75.10
 48.48 16 5 10 4283.12 -32.22 199.85 242.55 51.18 17 16 33 3683.1 -37.00 192.46
 131.52 0 22 8 2788.37 -32.20 82.48 242.53 51.17 1 8 36 2188.4 -36.98 75.10

DIFFERENTIAL CORRECTIONS
 TDE 1.9170 TRA-1.2287 TC3-3.3736 BAU .9113
 RDE .5532 RRA -.1057 RC3 -.5461 FAU .05892
 FDE 1.4641 FRA -.3699 FC3-2.5575 BSP 14618
 BDE 1.9952 BRA 1.2332 BC3 3.4176 FSP -879

MID-COURSE EXECUTION ACCURACY
 SGT 4565.9 SGR 885.5 SG3 263.0
 RRT .9170 RRF .9631 RTF .9516
 SGB 4650.9 R23 .2140 R13 .9545
 SG1 4637.9 SG2 347.6 THA 10.14

ORBIT DETERMINATION ACCURACY
 ST 2563.5 SR 712.6 SS 971.6
 CRT .9806 CRS -.9995 CST -.9857
 LSA 2825.8 MSA 195.3 SSA 8.5
 EL1 2657.2 EL2 134.9 ALF 15.29

LAUNCH DATE FEB 13 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 19 1969

DISTANCE 452.268

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.272 GAL -2.01 AZL 84.33 HCA 215.70 SMA 126.02 ECC .17558 INC 5.6674 V1 30.162
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.268 GAP 6.33 AZP 94.61 TAL 189.52 TAP 45.22 RCA 103.90 APO 148.15 V2 34.865
 RC 142.207 GL 39.20 GP -36.29 ZAL 107.61 ZAP 136.85 ETS 311.15 ZAE 124.22 ETE 208.73 ZAC 121.96 ETC 188.38 CLP-154.84

PLANETOCENTRIC CONIC
 C3 18.133 VHL 4.258 DLA 47.67 RAL 9.93 RAD 6567.7 VEL 11.812 PTH 2.09 VHP 5.875 DPA -26.00 RAP 39.21 ECC 1.2984
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.90 16 25 24 4248.90 -32.54 196.79 244.42 53.01 17 36 13 3648.9 -37.10 189.19
 130.10 0 32 47 2777.66 -32.53 81.73 244.41 53.00 1 19 4 2177.7 -37.09 74.14
 49.90 16 25 24 4248.90 -32.54 196.79 244.42 53.01 17 36 13 3648.9 -37.10 189.19
 130.10 0 32 47 2777.66 -32.53 81.73 244.41 53.00 1 19 4 2177.7 -37.09 74.14
 49.90 16 25 24 4248.90 -32.54 196.79 244.42 53.01 17 36 13 3648.9 -37.10 189.19
 130.10 0 32 47 2777.66 -32.53 81.73 244.41 53.00 1 19 4 2177.7 -37.09 74.14

DIFFERENTIAL CORRECTIONS
 TDE 1.8810 TRA-1.0877 TC3-3.8241 BAU .9361
 RDE .5041 RRA -.0729 RC3 -.5360 FAU .05942
 FDE 1.4061 FRA -.2510 FC3-2.8372 BSP 14858
 BDE 1.9474 BRA 1.0902 BC3 3.8615 FSP -894

MID-COURSE EXECUTION ACCURACY
 SGT 4662.3 SGR 830.4 SG3 268.7
 RRT .9091 RRF .9524 RTF .9483
 SGB 4735.7 R23 .2055 R13 .9508
 SG1 4723.3 SG2 341.4 THA 9.25

ORBIT DETERMINATION ACCURACY
 ST 2615.4 SR 679.8 SS 964.1
 CRT .9823 CRS -.9997 CST -.9851
 LSA 2862.8 MSA 190.7 SSA 9.7
 EL1 2699.5 EL2 123.4 ALF 14.35

LAUNCH DATE FEB 13 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 458.166

RL 147.72 LAL .00 LOL 144.12 VL 27.231 GAL -1.72 AZL 84.81 MCA 218.86 SMA 125.76 ECC .17714 INC 5.1923 V1 30.162
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.248 GAP 6.58 AZP 94.05 TAL 188.05 TAP 46.92 RCA 103.48 APO 148.03 V2 34.875
 RC 144.478 GL 37.05 GP -33.50 ZAL 106.35 ZAP 139.61 ETS 311.64 ZAE 125.32 ETE 206.81 ZAC 123.88 ETC 187.86 CLP-155.98

PLANETOCENTRIC CONIC

C3 16.712 VHL 4.088 DLA 46.71 RAL 13.84 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 5.852 OPA -22.77 RAP 39.55 ECC 1.2750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.16 16 45 27 4218.89 -32.73 194.07 246.60 54.59 17 55 46 3618.9 -37.10 186.31
 128.84 0 43 57 2769.88 -32.72 81.15 246.59 54.58 1 30 7 2169.9 -37.09 73.39
 51.16 16 45 27 4218.89 -32.73 194.07 246.60 54.59 17 55 46 3618.9 -37.10 186.31
 128.84 0 43 57 2769.88 -32.72 81.15 246.59 54.58 1 30 7 2169.9 -37.09 73.39
 51.16 16 45 27 4218.89 -32.73 194.07 246.60 54.59 17 55 46 3618.9 -37.10 186.31
 128.84 0 43 57 2769.88 -32.72 81.15 246.59 54.58 1 30 7 2169.9 -37.09 73.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8483 TRA -.9487 TC3-4.2706 BAU .9612 SGT 4760.5 SGR 781.8 SG3 271.5 ST 2657.1 SR 650.1 SS 948.1
 RDE .4633 RRA -.0470 RC3 -.5193 FAU .05923 RRT .9004 RRF .9393 RTF .9458 CRT .9843 CRS -.9998 CST -.9845
 FDE 1.3355 FRA -.1364 FC3-3.0683 BSP 15182 SGB 4824.3 R23 .1916 R13 .9479 LSA 2889.2 MSA 185.4 SSA 11.0
 BDE 1.9055 BRA .9499 BC3 4.3020 FSP -905 SG1 4812.6 SG2 336.4 THA 8.45 EL1 2733.2 EL2 111.6 ALF 13.56

LAUNCH DATE FEB 13 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 464.053

RL 147.72 LAL .00 LOL 144.12 VL 27.190 GAL -1.43 AZL 85.22 MCA 222.03 SMA 125.49 ECC .17883 INC 4.7780 V1 30.162
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.227 GAP 6.84 AZP 93.55 TAL 186.57 TAP 48.60 RCA 103.05 APO 147.93 V2 34.885
 RC 146.734 GL 34.99 GP -31.05 ZAL 104.79 ZAP 142.12 ETS 312.05 ZAE 126.19 ETE 205.04 ZAC 125.81 ETC 187.38 CLP-157.12

PLANETOCENTRIC CONIC

C3 15.585 VHL 3.948 DLA 45.85 RAL 17.82 RAD 6567.6 VEL 11.703 PTH 2.06 VHP 5.863 OPA -19.81 RAP 40.13 ECC 1.2565
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.30 17 5 26 4192.53 -32.81 191.66 249.09 55.97 18 15 19 3592.5 -37.02 183.77
 127.70 0 55 42 2764.47 -32.80 80.71 249.08 55.96 1 41 47 2164.5 -37.01 72.83
 52.30 17 5 26 4192.53 -32.81 191.66 249.09 55.97 18 15 19 3592.5 -37.02 183.77
 127.70 0 55 42 2764.47 -32.80 80.71 249.08 55.96 1 41 47 2164.5 -37.01 72.83
 52.30 17 5 26 4192.53 -32.81 191.66 249.09 55.97 18 15 19 3592.5 -37.02 183.77
 127.70 0 55 42 2764.47 -32.80 80.71 249.08 55.96 1 41 47 2164.5 -37.01 72.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8212 TRA -.8050 TC3-4.6996 BAU .9847 SGT 4854.8 SGR 740.0 SG3 271.9 ST 2693.0 SR 625.4 SS 927.8
 RDE .4307 RRA -.0254 RC3 -.4971 FAU .05837 RRT .8900 RRF .9237 RTF .9437 CRT .9865 CRS -.9996 CST -.9839
 FDE 1.2607 FRA -.0237 FC3-3.2424 BSP 15489 SGB 4910.9 R23 .1750 R13 .9454 LSA 2910.6 MSA 180.0 SSA 12.3
 BDE 1.8715 BRA .8054 BC3 4.7258 FSP -907 SG1 4899.5 SG2 334.3 THA 7.76 EL1 2762.9 EL2 99.6 ALF 12.92

LAUNCH DATE FEB 13 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 469.928

RL 147.72 LAL .00 LOL 144.12 VL 27.148 GAL -1.12 AZL 85.59 MCA 225.20 SMA 125.22 ECC .18067 INC 4.4114 V1 30.162
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.207 GAP 7.10 AZP 93.11 TAL 185.07 TAP 50.27 RCA 102.60 APO 147.85 V2 34.897
 RC 148.977 GL 33.00 GP -28.87 ZAL 102.97 ZAP 144.42 ETS 312.36 ZAE 126.87 ETE 203.40 ZAC 127.75 ETC 186.92 CLP-158.24

PLANETOCENTRIC CONIC

C3 14.691 VHL 3.833 DLA 45.06 RAL 21.89 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 5.903 OPA -17.11 RAP 40.92 ECC 1.2418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.35 17 25 35 4169.11 -32.81 189.48 251.86 57.18 18 35 4 3569.1 -36.87 181.49
 126.65 1 7 59 2761.39 -32.80 80.42 251.85 57.17 1 54 0 2161.4 -36.86 72.44
 53.35 17 25 35 4169.11 -32.81 189.48 251.86 57.18 18 35 4 3569.1 -36.87 181.49
 126.65 1 7 59 2761.39 -32.80 80.42 251.85 57.17 1 54 0 2161.4 -36.86 72.44
 53.35 17 25 35 4169.11 -32.81 189.48 251.86 57.18 18 35 4 3569.1 -36.87 181.49
 126.65 1 7 59 2761.39 -32.80 80.42 251.85 57.17 1 54 0 2161.4 -36.86 72.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7959 TRA -.6571 TC3-5.1065 BAU 1.0072 SGT 4946.2 SGR 704.6 SG3 270.3 ST 2719.4 SR 604.8 SS 902.9
 RDE .4045 RRA -.0073 RC3 -.4713 FAU .05700 RRT .8778 RRF .9058 RTF .9421 CRT .8778 CRS -.9990 CST -.9831
 FDE 1.1827 FRA .0843 FC3-3.3592 BSP 15779 SGB 4996.1 R23 .1565 R13 .9434 LSA 2923.2 MSA 174.6 SSA 13.7
 BDE 1.8409 BRA .6571 BC3 5.1282 FSP -900 SG1 4984.9 SG2 334.9 THA 7.16 EL1 2784.5 EL2 87.4 ALF 12.42

LAUNCH DATE FEB 13 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 475.789

RL 147.72 LAL .00 LOL 144.12 VL 27.107 GAL -.79 AZL 85.92 MCA 228.37 SMA 124.96 ECC .18267 INC 4.0829 V1 30.162
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.188 GAP 7.36 AZP 92.71 TAL 183.56 TAP 51.93 RCA 102.13 APO 147.78 V2 34.908
 RC 151.204 GL 31.07 GP -26.94 ZAL 100.90 ZAP 146.53 ETS 312.57 ZAE 127.42 ETE 201.92 ZAC 129.71 ETC 186.49 CLP-159.35

PLANETOCENTRIC CONIC

C3 13.987 VHL 3.740 DLA 44.32 RAL 26.04 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 5.964 OPA -14.62 RAP 41.89 ECC 1.2302
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.36 17 46 2 4148.08 -32.72 187.49 254.91 58.26 18 55 10 3548.1 -36.65 179.42
 125.64 1 20 40 2760.69 -32.71 80.29 254.90 58.25 2 6 41 2160.7 -36.64 72.23
 54.36 17 46 2 4148.08 -32.72 187.49 254.91 58.26 18 55 10 3548.1 -36.65 179.42
 125.64 1 20 40 2760.69 -32.71 80.29 254.90 58.25 2 6 41 2160.7 -36.64 72.23
 54.36 17 46 2 4148.08 -32.72 187.49 254.91 58.26 18 55 10 3548.1 -36.65 179.42
 125.64 1 20 40 2760.69 -32.71 80.29 254.90 58.25 2 6 41 2160.7 -36.64 72.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7723 TRA -.4999 TC3-5.4777 BAU 1.0276 SGT 5030.5 SGR 675.4 SG3 267.2 ST 2737.0 SR 588.3 SS 875.1
 RDE .3839 RRA .0089 RC3 -.4431 FAU .05522 RRT .8638 RRF .8859 RTF .9406 CRT .9915 CRS -.9977 CST -.9821
 FDE 1.1045 FRA .1899 FC3-3.4177 BSP 16028 SGB 5075.6 R23 .1383 R13 .9417 LSA 2928.1 MSA 169.6 SSA 15.2
 BDE 1.8135 BRA .5000 BC3 5.4956 FSP -887 SG1 5064.3 SG2 338.1 THA 6.65 EL1 2798.5 EL2 74.8 ALF 12.04

LAUNCH DATE FEB 13 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.065 GAL -4.46 AZL 86.21 MCA 231.55 SMA 124.69 ECC .18483 INC 3.7850 V1 30.162
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.169 GAP 7.63 AZP 92.36 TAL 182.03 TAP 53.58 RCA 101.64 APO 147.74 V2 34.920
 RC 153.416 GL 29.16 GP -25.23 ZAL 98.60 ZAP 148.47 ETS 312.68 ZAE 127.86 ETE 200.58 ZAC 131.69 ETC 186.09 CLP-160.44

PLANETOCENTRIC CONIC
 C3 13.444 VHL 3.667 DLA 43.59 RAL 30.29 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 6.043 DPA -12.32 RAP 43.02 ECC 1.2213
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.36 18 6 53 4129.04 -32.54 185.64 258.21 59.23 19 15 42 3529.0 -36.35 177.52
 124.64 1 33 41 2762.43 -32.53 80.32 258.20 59.21 2 19 44 2162.4 -36.34 72.20
 55.36 18 6 53 4129.04 -32.54 185.64 258.21 59.23 19 15 42 3529.0 -36.35 177.52
 124.64 1 33 41 2762.43 -32.53 80.32 258.20 59.21 2 19 44 2162.4 -36.34 72.20
 55.36 18 6 53 4129.04 -32.54 185.64 258.21 59.23 19 15 42 3529.0 -36.35 177.52
 124.64 1 33 41 2762.43 -32.53 80.32 258.20 59.21 2 19 44 2162.4 -36.34 72.20

MID-COURSE EXECUTION ACCURACY
 SGT 5114.6 SGR 651.6 SG3 263.0
 RRT .8486 RRF .8644 RTF .9400
 SGB 5156.0 R23 .1193 R13 .9409
 SG1 5144.6 SG2 342.7 THA 6.20

ORBIT DETERMINATION ACCURACY
 ST 2735.3 SR 574.1 SS 841.5
 CRT .9939 CRS -.9955 CST -.9809
 LSA 2914.2 MSA 164.6 SSA 16.7
 EL1 2794.2 EL2 61.8 ALF 11.79

DIFFERENTIAL CORRECTIONS
 TOE 1.7429 TRA -.3396 TC3-5.8184 BAU 1.0484
 RDE .3672 RRA .0225 RC3 -.4157 FAU .05326
 FDE 1.0233 FRA .2864 FC3-3.4295 BSP 16354
 BDE 1.7811 BRA .3404 BC3 5.8332 FSP -877

LAUNCH DATE FEB 13 1969

FLIGHT TIME 168.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 27.024 GAL -1.11 AZL 86.49 MCA 234.73 SMA 124.43 ECC .18718 INC 3.5121 V1 30.162
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.150 GAP 7.91 AZP 92.03 TAL 180.48 TAP 55.21 RCA 101.14 APO 147.72 V2 34.932
 RC 155.612 GL 27.28 GP -23.71 ZAL 96.10 ZAP 150.26 ETS 312.67 ZAE 128.20 ETE 199.37 ZAC 133.70 ETC 185.70 CLP-161.51

PLANETOCENTRIC CONIC
 C3 13.045 VHL 3.612 DLA 42.86 RAL 34.61 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 6.139 DPA -10.19 RAP 44.27 ECC 1.2147
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.38 18 28 16 4111.48 -32.27 183.88 261.74 60.11 19 36 47 3511.5 -35.97 175.73
 123.62 1 46 50 2766.94 -32.26 80.53 261.73 60.10 2 32 57 2166.9 -35.96 72.38
 56.38 18 28 16 4111.48 -32.27 183.88 261.74 60.11 19 36 47 3511.5 -35.97 175.73
 123.62 1 46 50 2766.94 -32.26 80.53 261.73 60.10 2 32 57 2166.9 -35.96 72.38
 56.38 18 28 16 4111.48 -32.27 183.88 261.74 60.11 19 36 47 3511.5 -35.97 175.73
 123.62 1 46 50 2766.94 -32.26 80.53 261.73 60.10 2 32 57 2166.9 -35.96 72.38

MID-COURSE EXECUTION ACCURACY
 SGT 5205.7 SGR 630.6 SG3 258.5
 RRT .8363 RRF .8418 RTF .9411
 SGB 5243.7 R23 .0936 R13 .9417
 SG1 5232.4 SG2 344.0 THA 5.81

ORBIT DETERMINATION ACCURACY
 ST 2700.0 SR 557.5 SS 792.1
 CRT .9961 CRS -.9919 CST -.9792
 LSA 2864.0 MSA 158.6 SSA 18.3
 EL1 2756.5 EL2 48.3 ALF 11.63

DIFFERENTIAL CORRECTIONS
 TOE 1.6984 TRA -.1803 TC3-6.1425 BAU 1.0735
 RDE .3512 RRA .0331 RC3 -.3970 FAU .05173
 FDE .9280 FRA .3685 FC3-3.4326 BSP 16878
 BDE 1.7343 BRA .1833 BC3 6.1553 FSP -885

LAUNCH DATE FEB 13 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.982 GAL .25 AZL 86.74 MCA 237.91 SMA 124.17 ECC .18971 INC 3.2597 V1 30.162
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.132 GAP 8.19 AZP 91.73 TAL 178.93 TAP 56.84 RCA 100.61 APO 147.72 V2 34.945
 RC 157.792 GL 25.42 GP -22.35 ZAL 93.42 ZAP 151.92 ETS 312.54 ZAE 128.49 ETE 198.28 ZAC 135.73 ETC 185.34 CLP-162.55

PLANETOCENTRIC CONIC
 C3 12.779 VHL 3.575 DLA 42.09 RAL 39.01 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 6.248 DPA -8.21 RAP 45.64 ECC 1.2103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.45 18 50 15 4094.98 -31.90 182.18 265.48 60.93 19 58 30 3495.0 -35.50 174.00
 122.55 1 59 56 2774.56 -31.89 80.96 265.47 60.92 2 46 11 2174.6 -35.49 72.78
 57.45 18 50 15 4094.98 -31.90 182.18 265.48 60.93 19 58 30 3495.0 -35.50 174.00
 122.55 1 59 56 2774.56 -31.89 80.96 265.47 60.92 2 46 11 2174.6 -35.49 72.78
 57.45 18 50 15 4094.98 -31.90 182.18 265.48 60.93 19 58 30 3495.0 -35.50 174.00
 122.55 1 59 56 2774.56 -31.89 80.96 265.47 60.92 2 46 11 2174.6 -35.49 72.78

MID-COURSE EXECUTION ACCURACY
 SGT 5268.2 SGR 617.4 SG3 252.0
 RRT .8142 RRF .8192 RTF .9390
 SGB 5304.3 R23 .0882 R13 .9396
 SG1 5292.3 SG2 356.8 THA 5.48

ORBIT DETERMINATION ACCURACY
 ST 2681.6 SR 552.4 SS 765.1
 CRT .9979 CRS -.9866 CST -.9772
 LSA 2838.4 MSA 157.9 SSA 19.8
 EL1 2737.7 EL2 35.3 ALF 11.62

DIFFERENTIAL CORRECTIONS
 TOE 1.6709 TRA .0081 TC3-6.3454 BAU 1.0858
 RDE .3441 RRA .0477 RC3 -.3606 FAU .04874
 FDE .8626 FRA .4687 FC3-3.3019 BSP 16818
 BDE 1.7060 BRA .0484 BC3 6.3557 FSP -831

LAUNCH DATE FEB 13 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.941 GAL .63 AZL 86.98 MCA 241.10 SMA 123.91 ECC .19245 INC 3.0241 V1 30.162
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.113 GAP 8.48 AZP 91.46 TAL 177.36 TAP 58.46 RCA 100.06 APO 147.76 V2 34.957
 RC 159.953 GL 23.56 GP -21.14 ZAL 90.58 ZAP 153.47 ETS 312.29 ZAE 128.72 ETE 197.31 ZAC 137.79 ETC 184.98 CLP-163.58

PLANETOCENTRIC CONIC
 C3 12.638 VHL 3.555 DLA 41.29 RAL 43.45 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.369 DPA -6.37 RAP 47.11 ECC 1.2080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.60 19 12 53 4079.07 -31.42 180.49 269.39 61.70 20 20 52 3479.1 -34.93 172.31
 121.40 2 12 44 2785.73 -31.41 81.62 269.38 61.69 2 59 10 2185.7 -34.92 73.44
 58.60 19 12 53 4079.07 -31.42 180.49 269.39 61.70 20 20 52 3479.1 -34.93 172.31
 121.40 2 12 44 2785.73 -31.41 81.62 269.38 61.69 2 59 10 2185.7 -34.92 73.44
 58.60 19 12 53 4079.07 -31.42 180.49 269.39 61.70 20 20 52 3479.1 -34.93 172.31
 121.40 2 12 44 2785.73 -31.41 81.62 269.38 61.69 2 59 10 2185.7 -34.92 73.44

MID-COURSE EXECUTION ACCURACY
 SGT 5341.3 SGR 605.2 SG3 245.9
 RRT .7969 RRF .7966 RTF .9392
 SGB 5375.5 R23 .0737 R13 .9397
 SG1 5363.2 SG2 364.1 THA 5.18

ORBIT DETERMINATION ACCURACY
 ST 2619.2 SR 542.5 SS 719.6
 CRT .9989 CRS -.9785 CST -.9744
 LSA 2765.5 MSA 156.4 SSA 21.2
 EL1 2674.7 EL2 24.5 ALF 11.69

DIFFERENTIAL CORRECTIONS
 TOE 1.6210 TRA .1934 TC3-6.5264 BAU 1.1042
 RDE .3358 RRA .0594 RC3 -.3362 FAU .04647
 FDE .7799 FRA .5507 FC3-3.1832 BSP 17081
 BDE 1.6554 BRA .2023 BC3 6.5350 FSP -811

LAUNCH DATE FEB 13 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 504.869

RL 147.72 LAL .00 LOL 144.12 VL 26.899 GAL 1.02 AZL 87.20 HCA 244.28 SMA 123.65 ECC .19541 INC 2.8023 V1 30.162
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.096 GAP 8.77 AZP 91.22 TAL 175.79 TAP 60.08 RCA 99.49 APO 147.81 V2 34.970
 RC 162.097 GL 21.72 GP -20.04 ZAL 87.62 ZAP 154.91 ETS 311.90 ZAE 128.91 ETE 196.43 ZAC 139.87 ETC 184.63 CLP-164.58

PLANETOCENTRIC CONIC

C3 12.621 VHL 3.553 DLA 40.42 RAL 47.91 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.503 DPA -4.65 RAP 48.68 ECC 1.2077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.86 19 36 13 4063.30 -30.82 178.76 273.45 62.44 20 43 57 3463.3 -34.24 170.60
 120.14 2 24 57 2800.93 -30.81 82.55 273.45 62.42 3 11 38 2200.9 -34.23 74.39
 59.86 19 36 13 4063.30 -30.82 178.76 273.45 62.44 20 43 57 3463.3 -34.24 170.60
 120.14 2 24 57 2800.93 -30.81 82.55 273.45 62.42 3 11 38 2200.9 -34.23 74.39
 59.86 19 36 13 4063.30 -30.82 178.76 273.45 62.44 20 43 57 3463.3 -34.24 170.60
 120.14 2 24 57 2800.93 -30.81 82.55 273.45 62.42 3 11 38 2200.9 -34.23 74.39

DIFFERENTIAL CORRECTIONS

TDE 1.5655 TRA .3897 TC3-6.6302 BAU 1.1200
 RDE .3301 RRA .0710 RC3 -.3119 FAU .04408
 FDE .7012 FRA .6283 FC3-3.0238 BSP 17277
 BDE 1.5999 BRA .3961 BC3 6.6375 FSP -787

MID-COURSE EXECUTION ACCURACY

SGT 5408.2 SGR 596.0 SG3 239.2
 RRT .7795 RRF .7748 RTF .9400
 SGB 5441.0 R23 .0616 R13 .9403
 SG1 5428.3 SG2 371.9 THA 4.93

ORBIT DETERMINATION ACCURACY

ST 2540.9 SR 534.3 SS 674.8
 CRT .9990 CRS -.9669 CST -.9710
 LSA 2678.0 MSA 156.9 SSA 22.5
 EL1 2596.4 EL2 23.6 ALF 11.87

LAUNCH DATE FEB 13 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 510.631

RL 147.72 LAL .00 LOL 144.12 VL 26.858 GAL 1.43 AZL 87.41 HCA 247.47 SMA 123.40 ECC .19860 INC 2.5921 V1 30.162
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.078 GAP 9.08 AZP 90.99 TAL 174.21 TAP 61.69 RCA 98.89 APO 147.90 V2 34.983
 RC 164.221 GL 19.90 GP -19.06 ZAL 84.55 ZAP 156.25 ETS 311.38 ZAE 129.07 ETE 195.65 ZAC 141.98 ETC 184.27 CLP-165.56

PLANETOCENTRIC CONIC

C3 12.729 VHL 3.568 DLA 39.49 RAL 52.35 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.648 DPA -3.03 RAP 50.33 ECC 1.2095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.24 20 0 17 4047.19 -30.11 176.98 277.63 63.14 21 7 44 3447.2 -33.45 168.84
 118.76 2 36 19 2820.67 -30.10 83.80 277.63 63.13 3 23 20 2220.7 -33.44 75.66
 61.24 20 0 17 4047.19 -30.11 176.98 277.63 63.14 21 7 44 3447.2 -33.45 168.84
 118.76 2 36 19 2820.67 -30.10 83.80 277.63 63.13 3 23 20 2220.7 -33.44 75.66
 61.24 20 0 17 4047.19 -30.11 176.98 277.63 63.14 21 7 44 3447.2 -33.45 168.84
 118.76 2 36 19 2820.67 -30.10 83.80 277.63 63.13 3 23 20 2220.7 -33.44 75.66

DIFFERENTIAL CORRECTIONS

TDE 1.4963 TRA .5926 TC3-6.6708 BAU 1.1363
 RDE .3256 RRA .0825 RC3 -.2899 FAU .04177
 FDE .6210 FRA .6996 FC3-2.8410 BSP 17556
 BDE 1.5313 BRA .5983 BC3 6.6771 FSP -770

MID-COURSE EXECUTION ACCURACY

SGT 5472.9 SGR 588.0 SG3 232.2
 RRT .7623 RRF .7535 RTF .9410
 SGB 5504.4 R23 .0507 R13 .9413
 SG1 5491.3 SG2 379.3 THA 4.70

ORBIT DETERMINATION ACCURACY

ST 2435.5 SR 525.5 SS 626.3
 CRT .9974 CRS -.9500 CST -.9665
 LSA 2563.9 MSA 160.2 SSA 23.5
 EL1 2491.2 EL2 36.9 ALF 12.15

LAUNCH DATE FEB 13 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 516.372

RL 147.72 LAL .00 LOL 144.12 VL 26.817 GAL 1.86 AZL 87.61 HCA 250.67 SMA 123.15 ECC .20205 INC 2.3911 V1 30.162
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.061 GAP 9.40 AZP 90.79 TAL 172.63 TAP 63.30 RCA 98.26 APO 148.03 V2 34.996
 RC 166.326 GL 18.09 GP -18.18 ZAL 81.41 ZAP 157.51 ETS 310.71 ZAE 129.20 ETE 194.94 ZAC 144.12 ETC 183.90 CLP-166.53

PLANETOCENTRIC CONIC

C3 12.965 VHL 3.601 DLA 38.49 RAL 56.74 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 6.804 DPA -1.52 RAP 52.06 ECC 1.2134
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.77 20 25 6 4030.26 -29.29 175.09 281.90 63.83 21 32 16 3430.3 -32.54 166.99
 117.23 2 46 33 2845.52 -29.27 85.40 281.89 63.81 3 33 58 2245.5 -32.53 77.30
 62.77 20 25 6 4030.26 -29.29 175.09 281.90 63.83 21 32 16 3430.3 -32.54 166.99
 117.23 2 46 33 2845.52 -29.27 85.40 281.89 63.81 3 33 58 2245.5 -32.53 77.30
 62.77 20 25 6 4030.26 -29.29 175.09 281.90 63.83 21 32 16 3430.3 -32.54 166.99
 117.23 2 46 33 2845.52 -29.27 85.40 281.89 63.81 3 33 58 2245.5 -32.53 77.30

DIFFERENTIAL CORRECTIONS

TDE 1.4164 TRA .8066 TC3-6.6357 BAU 1.1511
 RDE .3225 RRA .0945 RC3 -.2689 FAU .03947
 FDE .5416 FRA .7675 FC3-2.6355 BSP 17782
 BDE 1.4526 BRA .8121 BC3 6.6412 FSP -749

MID-COURSE EXECUTION ACCURACY

SGT 5532.1 SGR 581.1 SG3 225.0
 RRT .7456 RRF .7332 RTF .9421
 SGB 5562.6 R23 .0411 R13 .9424
 SG1 5549.1 SG2 386.1 THA 4.50

ORBIT DETERMINATION ACCURACY

ST 2311.3 SR 516.4 SS 577.5
 CRT .9934 CRS -.9256 CST -.9605
 LSA 2431.8 MSA 167.6 SSA 24.0
 EL1 2367.6 EL2 57.8 ALF 12.52

LAUNCH DATE FEB 13 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 522.089

RL 147.72 LAL .00 LOL 144.12 VL 26.776 GAL 2.30 AZL 87.80 HCA 253.86 SMA 122.90 ECC .20578 INC 2.1978 V1 30.162
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.044 GAP 9.73 AZP 90.61 TAL 171.04 TAP 64.90 RCA 97.61 APO 148.19 V2 35.010
 RC 168.410 GL 16.32 GP -17.37 ZAL 78.23 ZAP 158.69 ETS 309.87 ZAE 129.32 ETE 194.30 ZAC 146.27 ETC 183.51 CLP-167.47

PLANETOCENTRIC CONIC

C3 13.338 VHL 3.652 DLA 37.42 RAL 61.05 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 6.971 DPA -.10 RAP 53.85 ECC 1.2195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.45 20 50 43 4011.90 -28.35 173.06 286.21 64.49 21 57 35 3411.9 -31.53 165.01
 115.55 2 55 18 2876.10 -28.34 87.39 286.21 64.47 3 43 14 2276.1 -31.52 79.34
 64.45 20 50 43 4011.90 -28.35 173.06 286.21 64.49 21 57 35 3411.9 -31.53 165.01
 115.55 2 55 18 2876.10 -28.34 87.39 286.21 64.47 3 43 14 2276.1 -31.52 79.34
 64.45 20 50 43 4011.90 -28.35 173.06 286.21 64.49 21 57 35 3411.9 -31.53 165.01
 115.55 2 55 18 2876.10 -28.34 87.39 286.21 64.47 3 43 14 2276.1 -31.52 79.34

DIFFERENTIAL CORRECTIONS

TDE 1.3259 TRA 1.0307 TC3-6.5300 BAU 1.1652
 RDE .3207 RRA .1069 RC3 -.2492 FAU .03722
 FDE .4647 FRA .8317 FC3-2.4157 BSP 18007
 BDE 1.3641 BRA 1.0362 BC3 6.5348 FSP -728

MID-COURSE EXECUTION ACCURACY

SGT 5587.6 SGR 575.2 SG3 217.6
 RRT .7295 RRF .7143 RTF .9434
 SGB 5617.1 R23 .0332 R13 .9436
 SG1 5603.4 SG2 392.3 THA 4.32

ORBIT DETERMINATION ACCURACY

ST 2172.7 SR 507.1 SS 531.0
 CRT .9857 CRS -.8909 CST -.9528
 LSA 2286.2 MSA 179.8 SSA 24.1
 EL1 2229.5 EL2 83.3 ALF 12.98

LAUNCH DATE FEB 13 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.736 GAL 2.77 AZL 87.99 HCA 257.06 SMA 122.65 ECC .20980 INC 2.0104 V1 30.162
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.027 GAP 10.07 AZP 90.45 TAL 169.45 TAP 66.51 RCA 96.92 APO 148.38 V2 35.023
 RC 170.474 GL 14.58 GP -16.65 ZAL 75.04 ZAP 159.80 ETS 308.87 ZAE 129.42 ETE 193.73 ZAC 148.44 ETC 183.09 CLP-168.41

PLANETOCENTRIC CONIC
 C3 13.855 VHL 3.722 DLA 36.28 RAL 65.24 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 7.151 DPA 1.24 RAP 55.71 ECC 1.2280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.30 21 17 12 3991.45 -27.31 170.86 290.56 65.13 22 23 43 3391.5 -30.42 162.86
 113.70 3 2 16 2913.16 -27.30 89.84 290.55 65.11 3 50 49 2313.2 -30.41 81.84
 66.30 21 17 12 3991.45 -27.31 170.86 290.56 65.13 22 23 43 3391.5 -30.42 162.86
 113.70 3 2 16 2913.16 -27.30 89.84 290.55 65.11 3 50 49 2313.2 -30.41 81.84
 66.30 21 17 12 3991.45 -27.31 170.86 290.56 65.13 22 23 43 3391.5 -30.42 162.86
 113.70 3 2 16 2913.16 -27.30 89.84 290.55 65.11 3 50 49 2313.2 -30.41 81.84

DIFFERENTIAL CORRECTIONS
 TOE 1.2289 TRA 1.2704 TC3-6.3446 BAU 1.1759
 RDE .3205 RRA .1203 RC3 -.2288 FAU .03487
 FDE .3930 FRA .8961 FC3-2.1788 BSP 18137
 BOE 1.2701 BRA 1.2761 BC3 6.3487 FSP -702

MID-COURSE EXECUTION ACCURACY
 SGT 5636.6 SGR 570.4 SG3 210.3
 RRT .7141 RRF .6975 RTF .9443
 SGB 5665.4 R23 .0282 R13 .9445
 SG1 5651.4 SG2 398.3 THA 4.15

ORBIT DETERMINATION ACCURACY
 ST 2031.8 SR 498.2 SS 491.1
 CRT .9724 CRS -.8437 CST -.9441
 LSA 2139.6 MSA 197.6 SSA 23.6
 EL1 2088.9 EL2 113.2 ALF 13.45

LAUNCH DATE FEB 13 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.695 GAL 3.26 AZL 88.17 HCA 260.26 SMA 122.41 ECC .21415 INC 1.8277 V1 30.162
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.011 GAP 10.43 AZP 90.31 TAL 167.86 TAP 68.12 RCA 96.19 APO 148.62 V2 35.036
 RC 172.518 GL 12.89 GP -15.99 ZAL 71.87 ZAP 160.85 ETS 307.69 ZAE 129.51 ETE 193.21 ZAC 150.63 ETC 182.62 CLP-169.33

PLANETOCENTRIC CONIC
 C3 14.530 VHL 3.812 DLA 35.10 RAL 69.29 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 7.343 DPA 2.49 RAP 57.63 ECC 1.2391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.34 21 44 42 3968.01 -26.18 168.41 294.91 65.75 22 50 50 3368.0 -29.22 160.47
 111.66 3 7 5 2957.58 -26.17 92.80 294.90 65.73 3 56 23 2357.6 -29.21 84.86
 68.34 21 44 42 3968.01 -26.18 168.41 294.91 65.75 22 50 50 3368.0 -29.22 160.47
 111.66 3 7 5 2957.58 -26.17 92.80 294.90 65.73 3 56 23 2357.6 -29.21 84.86
 68.34 21 44 42 3968.01 -26.18 168.41 294.91 65.75 22 50 50 3368.0 -29.22 160.47
 111.66 3 7 5 2957.58 -26.17 92.80 294.90 65.73 3 56 23 2357.6 -29.21 84.86

DIFFERENTIAL CORRECTIONS
 TOE 1.1185 TRA 1.5178 TC3-6.1094 BAU 1.1874
 RDE .3209 RRA .1342 RC3 -.2106 FAU .03269
 FDE .3213 FRA .9552 FC3-1.9481 BSP 18335
 BOE 1.1636 BRA 1.5238 BC3 6.1130 FSP -681

MID-COURSE EXECUTION ACCURACY
 SGT 5682.8 SGR 565.0 SG3 203.0
 RRT .6996 RRF .6812 RTF .9455
 SGB 5710.8 R23 .0229 R13 .9456
 SG1 5696.6 SG2 402.7 THA 4.00

ORBIT DETERMINATION ACCURACY
 ST 1883.0 SR 488.0 SS 454.1
 CRT .9505 CRS -.7790 CST -.9337
 LSA 1985.1 MSA 221.0 SSA 22.8
 EL1 1939.6 EL2 147.1 ALF 13.92

LAUNCH DATE FEB 13 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.655 GAL 3.77 AZL 88.35 HCA 263.47 SMA 122.16 ECC .21885 INC 1.6483 V1 30.162
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.994 GAP 10.80 AZP 90.19 TAL 166.28 TAP 69.74 RCA 95.43 APO 148.90 V2 35.050
 RC 174.540 GL 11.25 GP -15.39 ZAL 68.74 ZAP 161.83 ETS 306.30 ZAE 129.58 ETE 192.74 ZAC 152.83 ETC 182.10 CLP-170.23

PLANETOCENTRIC CONIC
 C3 15.377 VHL 3.921 DLA 33.87 RAL 73.18 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 7.547 DPA 3.67 RAP 59.60 ECC 1.2531
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.59 22 13 28 3940.39 -24.98 165.65 299.25 66.34 23 19 9 3340.4 -27.95 157.77
 109.41 3 9 19 3010.55 -24.97 96.36 299.25 66.33 3 59 29 2410.5 -27.94 88.48
 70.59 22 13 28 3940.39 -24.98 165.65 299.25 66.34 23 19 9 3340.4 -27.95 157.77
 109.41 3 9 19 3010.55 -24.97 96.36 299.25 66.33 3 59 29 2410.5 -27.94 88.48
 110.00 3 47 59 2892.48 -27.95 88.51 300.60 69.46 4 36 11 2292.5 -30.48 80.23
 110.00 2 37 55 3106.46 -22.06 102.34 297.75 63.20 3 29 41 2506.5 -25.48 94.85

DIFFERENTIAL CORRECTIONS
 TOE 1.0001 TRA 1.7786 TC3-5.8198 BAU 1.1971
 RDE .3223 RRA .1487 RC3 -.1929 FAU .03056
 FDE .2535 FRA 1.0126 FC3-1.7204 BSP 18513
 BOE 1.0507 BRA 1.7848 BC3 5.8230 FSP -660

MID-COURSE EXECUTION ACCURACY
 SGT 5724.0 SGR 559.6 SG3 195.7
 RRT .6861 RRF .6664 RTF .9467
 SGB 5751.3 R23 .0187 R13 .9468
 SG1 5736.9 SG2 406.2 THA 3.86

ORBIT DETERMINATION ACCURACY
 ST 1742.3 SR 477.5 SS 424.9
 CRT .9166 CRS -.6961 CST -.9237
 LSA 1838.8 MSA 249.6 SSA 21.7
 EL1 1797.0 EL2 185.1 ALF 14.25

LAUNCH DATE FEB 13 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.616 GAL 4.31 AZL 88.53 HCA 266.67 SMA 121.93 ECC .22393 INC 1.4710 V1 30.162
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.978 GAP 11.20 AZP 90.09 TAL 164.70 TAP 71.37 RCA 94.62 APO 149.23 V2 35.063
 RC 176.542 GL 9.68 GP -14.85 ZAL 65.67 ZAP 162.76 ETS 304.70 ZAE 129.65 ETE 192.32 ZAC 155.05 ETC 181.50 CLP-171.13

PLANETOCENTRIC CONIC
 C3 16.417 VHL 4.052 DLA 32.62 RAL 76.89 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 7.766 DPA 4.78 RAP 61.62 ECC 1.2702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.09 22 44 4 3906.54 -23.71 162.44 303.57 66.92 23 49 10 3306.5 -26.63 154.62
 106.91 3 8 18 3074.07 -23.70 100.66 303.56 66.91 3 59 32 2474.1 -26.62 92.84
 73.09 22 44 4 3906.54 -23.71 162.44 303.57 66.92 23 49 10 3306.5 -26.63 154.62
 106.91 3 8 18 3074.07 -23.70 100.66 303.56 66.91 3 59 32 2474.1 -26.62 92.84
 110.00 4 45 48 2773.61 -30.50 80.20 306.29 73.77 5 32 1 2173.6 -32.42 71.51
 110.00 2 9 41 3255.00 -17.25 111.16 300.12 60.02 3 3 56 2655.0 -21.10 104.16

DIFFERENTIAL CORRECTIONS
 TOE .8742 TRA 2.0529 TC3-5.4890 BAU 1.2053
 RDE .3247 RRA .1639 RC3 -.1760 FAU .02849
 FDE .1894 FRA 1.0684 FC3-1.5024 BSP 18673
 BOE .9325 BRA 2.0594 BC3 5.4919 FSP -639

MID-COURSE EXECUTION ACCURACY
 SGT 5761.2 SGR 554.0 SG3 188.7
 RRT .6738 RRF .6531 RTF .9479
 SGB 5787.8 R23 .0152 R13 .9480
 SG1 5773.4 SG2 408.5 THA 3.73

ORBIT DETERMINATION ACCURACY
 ST 1617.1 SR 466.5 SS 404.1
 CRT .8663 CRS -.5965 CST -.9164
 LSA 1707.6 MSA 282.1 SSA 20.5
 EL1 1667.8 EL2 226.0 ALF 14.30

LAUNCH DATE FEB 13 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 22 1969

MELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.576 GAL 4.88 AZL 88.71 MCA 269.88 SMA 121.69 ECC .22944 INC 1.2948 V1 30.162
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.962 GAP 11.62 AZP 90.00 TAL 163.12 TAP 73.00 RCA 93.77 APO 149.61 V2 35.076
 RC 178.523 GL 8.18 GP -14.35 ZAL 62.69 ZAP 163.62 ETS 302.87 ZAE 129.70 ETE 191.93 ZAC 157.27 ETC 180.79 CLP-172.03

PLANETOCENTRIC CONIC
 C3 17.671 VHL 4.204 CLA 31.35 RAL 80.40 RAD 6567.7 VEL 11.792 PTH 2.08 VHP 8.001 DPA 5.82 RAP 63.68 ECC 1.2908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.95 23 17 21 3863.34 -22.40 158.56 307.85 67.47 24 21 44 3263.3 -25.26 150.80
 104.05 3 3 4 3151.20 -22.39 105.93 307.84 67.46 3 55 35 2551.2 -25.25 98.17
 75.95 23 17 21 3863.34 -22.40 158.56 307.85 67.47 24 21 44 3263.3 -25.26 150.80
 104.05 3 3 4 3151.20 -22.39 105.93 307.84 67.46 3 55 35 2551.2 -25.25 98.17
 110.00 5 26 23 2705.59 -31.69 75.26 311.24 76.47 6 11 28 2105.6 -33.23 66.37
 110.00 1 57 9 3356.95 -13.69 116.92 303.17 58.37 2 53 6 2757.0 -17.77 110.19

DIFFERENTIAL CORRECTIONS
 TOE .7441 TRA 2.3443 TC3-5.1196 BAU 1.2100 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE .3282 RRA .1800 RC3 -.1588 FAU .02639 SGT 5792.6 SGR 548.2 SG3 181.9 ST 1518.3 SR 455.6 SS 392.6
 FDE .1305 FRA 1.1243 FC3-1.2928 BSP 18757 RRT .6624 RRF .6414 RTF .9489 CRT .7965 CRS -.4873 CST -.9149
 BOE .8133 BRA 2.3512 BC3 5.1221 FSP -616 SGB 5818.4 R23 .0129 R13 .9489 LSA 1602.1 MSA 315.9 SSA 19.4
 SG1 5804.0 SG2 409.9 THA 3.61 EL1 1562.4 EL2 267.7 ALF 13.86

LAUNCH DATE FEB 13 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 24 1969

MELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.537 GAL 5.48 AZL 88.88 MCA 273.09 SMA 121.46 ECC .23541 INC 1.1185 V1 30.162
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.946 GAP 12.06 AZP 89.94 TAL 161.56 TAP 74.65 RCA 92.87 APO 150.05 V2 35.089
 RC 180.483 GL 6.76 GP -13.90 ZAL 59.82 ZAP 164.43 ETS 300.79 ZAE 129.75 ETE 191.58 ZAC 159.50 ETC 179.93 CLP-172.91

PLANETOCENTRIC CONIC
 C3 19.167 VHL 4.378 CLA 30.09 RAL 83.72 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 8.252 DPA 6.79 RAP 65.78 ECC 1.3154
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.38 23 55 30 3803.49 -21.06 153.48 312.08 68.00 24 58 54 3203.5 -23.86 145.78
 100.62 2 51 24 3249.13 -21.05 112.68 312.08 67.99 3 45 33 2649.1 -23.85 104.99
 79.38 23 55 30 3803.49 -21.06 153.48 312.08 68.00 24 58 54 3203.5 -23.86 145.78
 100.62 2 51 24 3249.13 -21.05 112.68 312.08 67.99 3 45 33 2649.1 -23.85 104.99
 110.00 6 0 27 2656.15 -32.42 71.59 315.90 78.53 6 44 43 2056.1 -33.66 62.58
 110.00 1 49 34 3444.47 -10.51 121.71 306.42 57.28 2 46 59 2844.5 -14.75 115.17

DIFFERENTIAL CORRECTIONS
 TOE .6039 TRA 2.6469 TC3-4.7395 BAU 1.2150 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE .3322 RRA .1964 RC3 -.1432 FAU .02446 SGT 5820.2 SGR 541.2 SG3 175.3 ST 1443.1 SR 443.8 SS 387.5
 FDE .0731 FRA 1.1773 FC3-1.1048 BSP 18909 RRT .6517 RRF .6300 RTF .9502 CRT .7043 CRS -.3703 CST -.9191
 BOE .6892 BRA 2.6542 BC3 4.7416 FSP -597 SGB 5845.3 R23 .0102 R13 .9502 LSA 1519.2 MSA 348.3 SSA 18.3
 SG1 5830.9 SG2 409.8 THA 3.49 EL1 1478.2 EL2 307.6 ALF 12.78

LAUNCH DATE FEB 13 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 26 1969

MELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.498 GAL 6.11 AZL 89.06 MCA 276.30 SMA 121.23 ECC .24189 INC .9409 V1 30.162
 RP 107.96 LAP -.94 LOP 60.42 VP 36.931 GAP 12.53 AZP 89.90 TAL 160.01 TAP 76.31 RCA 91.91 APO 150.56 V2 35.102
 RC 182.422 GL 5.43 GP -13.48 ZAL 57.06 ZAP 165.18 ETS 298.43 ZAE 129.78 ETE 191.26 ZAC 161.73 ETC 178.87 CLP-173.80

PLANETOCENTRIC CONIC
 C3 20.938 VHL 4.576 CLA 28.84 RAL 86.85 RAD 6567.9 VEL 11.930 PTH 2.12 VHP 8.522 DPA 7.69 RAP 67.92 ECC 1.3446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.29 0 50 30 3700.67 -19.71 145.30 316.27 68.51 1 52 11 3100.7 -22.46 137.66
 95.71 2 25 15 3394.04 -19.70 122.82 316.27 68.50 3 21 49 2794.0 -22.45 115.19
 100.00 4 5 46 3071.03 -25.27 101.05 318.34 73.47 4 56 57 2471.0 -27.29 92.83
 100.00 1 52 40 3498.91 -14.33 128.06 313.77 63.48 2 50 59 2898.9 -17.78 120.96
 110.00 6 30 23 2618.23 -32.90 68.73 320.39 80.16 7 14 1 2018.2 -33.91 59.64
 110.00 1 44 32 3524.47 -7.54 126.00 309.78 56.56 2 43 17 2924.5 -11.88 119.60

DIFFERENTIAL CORRECTIONS
 TOE .4586 TRA 2.9668 TC3-4.3466 BAU 1.2172 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE .3370 RRA .2133 RC3 -.1279 FAU .02256 SGT 5842.8 SGR 533.6 SG3 168.9 ST 1400.9 SR 431.7 SS 389.3
 FDE .0196 FRA 1.2304 FC3 -.9330 BSP 19033 RRT .6419 RRF .6198 RTF .9515 CRT .5937 CRS -.2572 CST -.9293
 BOE .5691 BRA 2.9745 BC3 4.3484 FSP -577 SGB 5867.1 R23 .0079 R13 .9515 LSA 1469.7 MSA 374.7 SSA 17.3
 SG1 5852.8 SG2 408.5 THA 3.37 EL1 1425.7 EL2 341.4 ALF 11.01

LAUNCH DATE FEB 13 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 28 1969

MELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.460 GAL 6.78 AZL 89.24 MCA 279.52 SMA 121.01 ECC .24894 INC .7611 V1 30.162
 RP 107.92 LAP -.75 LOP 63.64 VP 36.915 GAP 13.03 AZP 89.87 TAL 158.48 TAP 78.00 RCA 90.88 APO 151.13 V2 35.114
 RC 184.340 GL 4.17 GP -13.10 ZAL 54.43 ZAP 165.88 ETS 295.77 ZAE 129.81 ETE 190.96 ZAC 163.96 ETC 177.52 CLP-174.69

PLANETOCENTRIC CONIC
 C3 23.024 VHL 4.798 CLA 27.61 RAL 89.77 RAD 6567.9 VEL 12.017 PTH 2.14 VHP 8.812 DPA 8.53 RAP 70.08 ECC 1.3789
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 44 52 3390.20 -22.88 123.74 322.09 72.85 3 41 23 2790.2 -25.01 115.72
 90.00 0 54 14 3750.45 -13.94 146.36 318.47 65.10 1 56 44 3150.4 -17.18 139.18
 100.00 4 48 36 2991.35 -26.69 95.56 323.26 76.02 5 38 27 2391.4 -28.35 87.15
 100.00 1 33 12 3624.53 -10.40 135.30 316.66 61.82 2 33 36 3024.5 -14.09 128.46
 110.00 6 57 12 2588.88 -33.22 66.50 324.76 81.44 7 40 21 1988.9 -34.05 57.36
 110.00 1 41 5 3599.77 -4.69 129.97 313.20 56.10 2 41 5 2999.8 -9.11 123.67

DIFFERENTIAL CORRECTIONS
 TOE .3076 TRA 3.3039 TC3-3.9526 BAU 1.2172 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE .3425 RRA .2307 RC3 -.1134 FAU .02074 SGT 5860.6 SGR 525.1 SG3 162.8 ST 1389.9 SR 419.5 SS 396.3
 FDE -.0304 FRA 1.2832 FC3 -.7797 BSP 19152 RRT .6326 RRF .6104 RTF .9529 CRT .4719 CRS -.1538 CST -.9428
 BOE .4603 BRA 3.3119 BC3 3.9543 FSP -559 SGB 5884.1 R23 .0060 R13 .9529 LSA 1452.9 MSA 392.0 SSA 16.4
 SG1 5870.0 SG2 406.0 THA 3.26 EL1 1405.0 EL2 365.9 ALF 8.70

LAUNCH DATE FEB 13 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.422 GAL 7.49 AZL 89.42 MCA 282.74 SMA 120.79 ECC .25661 INC .5777 V1 30.162
 RP 107.88 LAP -.56 LOP 66.85 VP 36.900 GAP 13.57 AZP 89.87 TAL 156.97 TAP 79.70 RCA 89.79 APO 151.78 V2 35.126
 RC 186.236 GL 3.00 GP -12.75 ZAL 51.93 ZAP 166.51 ETS 292.79 ZAE 129.82 ETE 190.69 ZAC 166.18 ETC 175.74 CLP-175.57

PLANETOCENTRIC CONIC
 C3 25.473 VHL 5.047 DLA 26.42 RAL 92.51 RAD 6568.0 VEL 12.118 PTH 2.17 VHP 9.125 OPA 9.31 RAP 72.27 ECC 1.4192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 31 11 3297.56 -24.60 117.50 327.07 75.52 4 26 9 2697.6 -26.35 109.27
 90.00 0 29 44 3892.67 -9.72 154.67 321.24 63.27 1 34 36 3292.7 -13.23 147.75
 100.00 5 22 12 2939.70 -27.49 91.93 327.83 77.77 6 11 11 2339.7 -28.90 83.41
 100.00 1 21 25 3725.76 -7.09 141.00 319.83 60.88 2 23 30 3125.8 -10.92 134.31
 110.00 7 21 28 2566.49 -33.43 64.79 329.04 82.43 8 4 15 1966.5 -34.12 55.62
 110.00 1 38 37 3671.74 -1.95 133.74 316.66 55.87 2 39 49 3071.7 -6.42 127.50

MID-COURSE EXECUTION ACCURACY
 SGT 5874.3 SGR 516.0 SG3 157.1 ST 1408.6 SR 407.3 SS 407.2
 RRT .6243 RRF .6025 RTF .9544 CRT .3518 CRS -.0669 CST -.9567
 SGB 5896.9 R23 .0050 R13 .9544 LSA 1468.5 MSA 398.9 SSA 15.6
 SGI 5883.2 SG2 402.5 TMA 3.15 EL1 1416.5 EL2 379.2 ALF 6.26

DIFFERENTIAL CORRECTIONS
 TDE .1552 TRA 3.6640 TC3-3.5585 BAU 1.2123
 RDE .3490 RRA .2486 RC3 -.0990 FAU .01889
 FDE -.0758 FRA 1.3382 FC3 -.6421 BSP 19170
 BDE .3819 BRA 3.6724 BC3 3.5599 FSP -537

ORBIT DETERMINATION ACCURACY
 ST 1408.6 SR 407.3 SS 407.2
 CRT .3518 CRS -.0669 CST -.9567
 LSA 1468.5 MSA 398.9 SSA 15.6
 EL1 1416.5 EL2 379.2 ALF 6.26

LAUNCH DATE FEB 13 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.385 GAL 8.25 AZL 89.61 MCA 285.95 SMA 120.57 ECC .26499 INC .3893 V1 30.162
 RP 107.85 LAP -.37 LOP 70.07 VP 36.884 GAP 14.15 AZP 89.89 TAL 155.48 TAP 81.43 RCA 88.62 APO 152.52 V2 35.138
 RC 188.109 GL 1.91 GP -12.43 ZAL 49.57 ZAP 167.08 ETS 289.47 ZAE 129.81 ETE 190.43 ZAC 168.38 ETC 173.28 CLP-176.47

PLANETOCENTRIC CONIC
 C3 28.344 VHL 5.324 DLA 25.27 RAL 95.06 RAD 6568.1 VEL 12.236 PTH 2.20 VHP 9.463 OPA 10.03 RAP 74.49 ECC 1.4665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 33 3242.16 -25.49 113.68 331.64 77.23 4 59 35 2642.2 -27.00 105.34
 90.00 0 15 42 4001.09 -6.34 160.84 324.35 62.34 1 22 24 3401.1 -9.99 154.07
 100.00 5 50 43 2903.08 -27.99 89.32 332.23 79.06 6 39 6 2303.1 -29.22 80.73
 100.00 1 13 13 3815.40 -4.10 145.97 323.12 60.36 2 16 49 3215.4 -8.01 139.37
 110.00 7 43 33 2550.07 -33.57 63.53 333.24 83.17 8 26 3 1950.1 -34.16 54.33
 110.00 1 36 53 3741.18 .70 137.36 320.13 55.82 2 39 14 3141.2 -3.79 131.15

MID-COURSE EXECUTION ACCURACY
 SGT 5883.0 SGR 505.4 SG3 151.5 ST 1446.2 SR 394.6 SS 420.2
 RRT .6160 RRF .5944 RTF .9562 CRT .2361 CRS .0109 CST -.9684
 SGB 5904.7 R23 .0034 R13 .9562 LSA 1505.3 MSA 397.2 SSA 14.8
 SGI 5891.3 SG2 397.6 TMA 3.04 EL1 1449.4 EL2 382.6 ALF 3.96

DIFFERENTIAL CORRECTIONS
 TDE -.0066 TRA 4.0405 TC3-3.1829 BAU 1.2065
 RDE .3558 RRA .2662 RC3 -.0860 FAU .01719
 FDE -.1201 FRA 1.3921 FC3 -.5251 BSP 19270
 BDE .3559 BRA 4.0493 BC3 3.1841 FSP -520

ORBIT DETERMINATION ACCURACY
 ST 1446.2 SR 394.6 SS 420.2
 CRT .2361 CRS .0109 CST -.9684
 LSA 1505.3 MSA 397.2 SSA 14.8
 EL1 1449.4 EL2 382.6 ALF 3.96

LAUNCH DATE FEB 13 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.348 GAL 9.05 AZL 89.81 MCA 289.18 SMA 120.36 ECC .27415 INC .1946 V1 30.162
 RP 107.81 LAP -.18 LOP 73.29 VP 36.869 GAP 14.77 AZP 89.94 TAL 154.02 TAP 83.20 RCA 87.36 APO 153.35 V2 35.150
 RC 189.959 GL .90 GP -12.14 ZAL 47.35 ZAP 167.58 ETS 285.79 ZAE 129.79 ETE 190.19 ZAC 170.54 ETC 169.70 CLP-177.37

PLANETOCENTRIC CONIC
 C3 31.706 VHL 5.631 DLA 24.17 RAL 97.42 RAD 6568.3 VEL 12.372 PTH 2.23 VHP 9.831 OPA 10.68 RAP 76.72 ECC 1.5218
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 7 3204.27 -26.03 111.04 336.00 78.45 5 27 31 2604.3 -27.37 102.63
 90.00 0 6 2 4095.18 -3.34 166.13 327.60 61.86 1 14 17 3495.2 -7.08 159.44
 100.00 6 15 42 2876.77 -28.32 87.44 336.49 80.00 7 3 39 2276.8 -29.41 78.80
 100.00 1 7 8 3897.91 -1.31 150.51 326.48 60.13 2 12 6 3297.9 -5.27 143.96
 110.00 8 3 42 2538.90 -33.66 62.67 337.38 83.67 8 46 0 1938.9 -34.17 53.46
 110.00 1 35 38 3808.55 3.28 140.88 323.62 55.96 2 39 7 3208.6 -1.21 134.67

MID-COURSE EXECUTION ACCURACY
 SGT 5887.1 SGR 493.8 SG3 146.2 ST 1499.2 SR 381.7 SS 434.7
 RRT .6077 RRF .5867 RTF .9581 CRT .1330 CRS .0755 CST -.9776
 SGB 5907.7 R23 .0023 R13 .9581 LSA 1559.2 MSA 388.7 SSA 14.1
 SGI 5894.7 SG2 391.6 TMA 2.93 EL1 1500.1 EL2 378.1 ALF 2.07

DIFFERENTIAL CORRECTIONS
 TDE -.1735 TRA 4.4403 TC3-2.8221 BAU 1.1966
 RDE .3633 RRA .2839 RC3 -.0737 FAU .01553
 FDE -.1617 FRA 1.4479 FC3 -.4239 BSP 19350
 BDE .4026 BRA 4.4494 BC3 2.8231 FSP -503

ORBIT DETERMINATION ACCURACY
 ST 1499.2 SR 381.7 SS 434.7
 CRT .1330 CRS .0755 CST -.9776
 LSA 1559.2 MSA 388.7 SSA 14.1
 EL1 1500.1 EL2 378.1 ALF 2.07

LAUNCH DATE FEB 13 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC
 RL 147.72 LAL .00 LOL 144.12 VL 26.311 GAL 9.92 AZL 90.01 MCA 292.40 SMA 120.15 ECC .28420 INC .0000 V1 30.162
 RP 107.78 LAP .01 LOP 76.52 VP 36.853 GAP 15.44 AZP 90.00 TAL 152.60 TAP 85.00 RCA 86.00 APO 154.30 V2 35.161
 RC 191.786 GL -.03 GP -11.87 ZAL 45.27 ZAP 168.01 ETS 281.75 ZAE 129.75 ETE 189.96 ZAC 172.64 ETC 164.05 CLP-178.28

PLANETOCENTRIC CONIC
 C3 35.648 VHL 5.971 DLA 23.12 RAL 99.62 RAD 6568.4 VEL 12.531 PTH 2.27 VHP 10.231 OPA 11.28 RAP 78.96 ECC 1.5867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 51 3177.76 -26.38 109.18 340.23 79.32 5 51 49 2577.8 -27.59 100.72
 90.00 23 54 53 4180.79 -.58 170.91 330.93 61.69 25 4 34 3580.8 -4.36 164.27
 100.00 6 37 55 2858.35 -28.53 86.11 340.65 80.67 7 25 33 2258.4 -29.52 77.44
 100.00 1 2 27 3975.43 1.32 154.76 329.88 60.13 2 8 42 3375.4 -2.66 148.24
 110.00 8 22 6 2532.40 -33.71 62.17 341.47 83.96 9 4 19 1932.4 -34.18 52.95
 110.00 1 34 45 3874.15 5.77 144.32 327.11 56.25 2 39 19 3274.2 1.29 138.10

MID-COURSE EXECUTION ACCURACY
 SGT 5886.6 SGR 481.0 SG3 141.1 ST 1561.3 SR 368.7 SS 450.3
 RRT .5994 RRF .5792 RTF .9603 CRT .0441 CRS .1291 CST -.9845
 SGB 5906.2 R23 .0014 R13 .9603 LSA 1623.1 MSA 376.0 SSA 13.5
 SGI 5893.7 SG2 384.6 TMA 2.82 EL1 1561.3 EL2 368.3 ALF .63

DIFFERENTIAL CORRECTIONS
 TDE -.3462 TRA 4.8652 TC3-2.4803 BAU 1.1824
 RDE .3714 RRA .3013 RC3 -.0622 FAU .01390
 FDE -.2009 FRA 1.5056 FC3 -.3376 BSP 19414
 BDE .5077 BRA 4.8745 BC3 2.4811 FSP -486

ORBIT DETERMINATION ACCURACY
 ST 1561.3 SR 368.7 SS 450.3
 CRT .0441 CRS .1291 CST -.9845
 LSA 1623.1 MSA 376.0 SSA 13.5
 EL1 1561.3 EL2 368.3 ALF .63

LAUNCH DATE FEB 13 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 592.112

RL 147.72 LAL .00 LOL 144.12 VL 26.276 GAL 10.85 AZL 90.22 HCA 295.62 SMA 119.99 ECC .29523 INC .2193 V1 30.162
 RP 107.75 LAP .20 LOP 79.74 VP 36.838 GAP 16.18 AZP 90.09 TAL 151.23 TAP 86.85 RCA 84.53 APO 155.36 V2 35.172
 RC 193.588 GL -.89 GP -11.62 ZAL 43.34 ZAP 168.35 ETS 277.34 ZAE 129.68 ETE 189.74 ZAC 174.59 ETC 154.19 CLP-179.22

PLANETOCENTRIC CONIC

C3 40.276 VHL 6.346 DLA 22.11 RAL 101.65 RAD 6568.5 VEL 12.714 PTH 2.31 VHP 10.669 DPA 11.82 RAP 81.21 ECC 1.6628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 41 3159.68 -26.60 107.90 344.35 79.92 6 13 21 2559.7 -27.72 99.41
 90.00 23 49 16 4260.56 1.99 175.36 334.31 61.75 25 0 16 3660.6 -1.80 168.73
 100.00 6 57 52 2846.35 -28.66 85.24 344.73 81.11 7 45 18 2246.3 -29.59 76.56
 100.00 0 58 42 4049.12 3.82 158.81 333.30 60.33 2 6 11 3449.1 -1.16 152.28
 110.00 8 38 57 2530.09 -33.73 61.99 345.51 84.07 9 21 7 1930.1 -34.18 52.77
 110.00 1 34 6 3938.14 8.17 147.71 330.61 56.69 2 39 44 3338.1 3.74 141.44

DIFFERENTIAL CORRECTIONS

TDE -.5213 TRA 5.3216 TC3-2.1559 BAU 1.1612
 RDE .3804 RRA .3183 RC3 -.0513 FAU .01225
 FDE -.2370 FRA 1.5674 FC3 -.2633 BSP 19375
 BDE .6453 BRA 5.3311 BC3 2.1563 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 5882.5 SGR 467.3 SG3 136.4
 RRT .5912 RRF .5724 RTF .9626
 SGB 5901.0 R23 .0011 R13 .9626
 SG1 5889.0 SG2 376.5 THA 2.70

ORBIT DETERMINATION ACCURACY

ST 1627.5 SR 355.8 SS 466.2
 CRT -.0288 CRS .1712 CST -.9893
 LSA 1691.8 MSA 361.2 SSA 12.9
 EL1 1627.5 EL2 355.6 ALF 179.62

LAUNCH DATE FEB 13 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 596.821

RL 147.72 LAL .00 LOL 144.12 VL 26.241 GAL 11.86 AZL 90.44 HCA 298.85 SMA 119.75 ECC .30739 INC .4438 V1 30.162
 RP 107.71 LAP .39 LOP 82.97 VP 36.823 GAP 16.98 AZP 90.21 TAL 149.91 TAP 88.76 RCA 82.94 APO 156.55 V2 35.182
 RC 195.366 GL -1.69 GP -11.40 ZAL 41.55 ZAP 168.60 ETS 272.58 ZAE 129.59 ETE 189.54 ZAC 176.21 ETC 134.86 CLP 179.83

PLANETOCENTRIC CONIC

C3 45.723 VHL 6.762 DLA 21.17 RAL 103.52 RAD 6568.7 VEL 12.926 PTH 2.36 VHP 11.148 DPA 12.30 RAP .83.45 ECC 1.7525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 40 9 3148.28 -26.74 107.09 348.37 80.31 6 32 37 2548.3 -27.80 98.59
 90.00 23 44 43 4335.87 4.41 179.57 337.70 62.00 24 56 59 3735.9 .63 172.93
 100.00 7 15 50 2839.73 -28.73 84.76 348.73 81.35 8 3 10 2239.7 -29.62 76.07
 100.00 0 55 39 4119.66 6.18 162.71 336.73 60.70 2 4 19 3519.7 2.23 156.15
 110.00 8 54 20 2531.55 -33.72 62.10 349.48 84.00 9 36 32 1931.5 -34.18 52.89
 110.00 1 33 38 4000.60 10.49 151.07 334.11 57.28 2 40 19 3400.6 6.11 144.72

DIFFERENTIAL CORRECTIONS

TDE -.7083 TRA 5.8048 TC3-1.8584 BAU 1.1363
 RDE .3896 RRA .3342 RC3 -.0417 FAU .01070
 FDE -.2732 FRA 1.6310 FC3 -.2025 BSP 19433
 BDE .8084 BRA 5.8144 BC3 1.8589 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 5873.4 SGR 452.1 SG3 131.7
 RRT .5819 RRF .5644 RTF .9652
 SGB 5890.8 R23 .0006 R13 .9652
 SG1 5879.3 SG2 367.3 THA 2.57

ORBIT DETERMINATION ACCURACY

ST 1694.0 SR 342.5 SS 482.9
 CRT -.0928 CRS .2091 CST -.9927
 LSA 1761.0 MSA 345.0 SSA 12.3
 EL1 1694.3 EL2 341.0 ALF 178.88

LAUNCH DATE FEB 13 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 601.330

RL 147.72 LAL .00 LOL 144.12 VL 26.206 GAL 12.95 AZL 90.68 HCA 302.08 SMA 119.55 ECC .32083 INC .6825 V1 30.162
 RP 107.68 LAP .58 LOP 86.20 VP 36.808 GAP 17.85 AZP 90.36 TAL 148.65 TAP 90.73 RCA 81.20 APO 157.91 V2 35.192
 RC 197.118 GL -2.41 GP -11.19 ZAL 39.89 ZAP 168.76 ETS 267.52 ZAE 129.46 ETE 189.33 ZAC 176.94 ETC 99.41 CLP 178.85

PLANETOCENTRIC CONIC

C3 52.158 VHL 7.222 DLA 20.28 RAL 105.24 RAD 6568.9 VEL 13.173 PTH 2.41 VHP 11.677 DPA 12.72 RAP 85.68 ECC 1.8584
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 35 3142.39 -26.80 106.68 352.30 80.51 6 49 57 2542.4 -27.84 98.16
 90.00 23 40 58 4407.53 6.69 183.61 341.09 62.42 24 54 25 3807.5 2.94 176.93
 100.00 7 32 4 2837.72 -28.75 84.61 352.65 81.43 8 19 22 2237.7 -29.63 75.92
 100.00 0 53 6 4187.43 8.42 166.49 340.15 61.21 2 2 53 3587.4 4.52 159.88
 110.00 9 8 23 2536.37 -33.68 62.47 353.40 83.78 9 50 39 1936.4 -34.17 53.27
 110.00 1 33 16 4061.55 12.71 154.39 337.59 58.00 2 40 57 3461.5 8.39 147.96

DIFFERENTIAL CORRECTIONS

TDE -.9022 TRA 6.3205 TC3-1.5831 BAU 1.1041
 RDE .3996 RRA .3488 RC3 -.0329 FAU .00915
 FDE -.3081 FRA 1.6989 FC3 -.1518 BSP 19450
 BDE .9867 BRA 6.3302 BC3 1.5834 FSP -437

MID-COURSE EXECUTION ACCURACY

SGT 5858.1 SGR 435.6 SG3 127.3
 RRT .5716 RRF .5557 RTF .9679
 SGB 5874.2 R23 .0005 R13 .9679
 SG1 5863.4 SG2 357.1 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 1757.5 SR 329.1 SS 500.0
 CRT -.1467 CRS .2410 CST -.9951
 LSA 1827.3 MSA 328.4 SSA 11.7
 EL1 1758.2 EL2 325.4 ALF 178.37

LAUNCH DATE FEB 13 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 605.597

RL 147.72 LAL .00 LOL 144.12 VL 26.173 GAL 14.14 AZL 90.94 HCA 305.31 SMA 119.36 ECC .33573 INC .9387 V1 30.162
 RP 107.66 LAP .77 LOP 89.43 VP 36.793 GAP 18.82 AZP 90.54 TAL 147.46 TAP 92.77 RCA 79.29 APO 159.44 V2 35.201
 RC 198.846 GL -3.08 GP -10.99 ZAL 38.38 ZAP 168.80 ETS 262.19 ZAE 129.30 ETE 189.13 ZAC 176.28 ETC 63.83 CLP 177.84

PLANETOCENTRIC CONIC

C3 59.790 VHL 7.732 DLA 19.44 RAL 106.80 RAD 6569.1 VEL 13.459 PTH 2.46 VHP 12.262 DPA 13.10 RAP 87.90 ECC 1.9840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 14 3141.14 -26.82 106.59 356.13 80.55 7 5 35 2541.1 -27.85 98.07
 90.00 23 37 46 4475.98 8.82 187.50 344.47 62.98 24 52 22 3876.0 5.13 180.77
 100.00 7 46 43 2839.68 -28.73 84.75 356.47 81.36 8 34 3 2239.7 -29.62 76.07
 100.00 0 50 54 4252.59 10.54 170.18 343.56 61.86 2 1 47 3652.6 6.70 163.50
 110.00 9 21 10 2544.19 -33.62 63.08 357.23 83.43 10 3 34 1944.2 -34.16 53.88
 110.00 1 32 57 4120.92 14.83 157.69 341.06 58.84 2 41 38 3520.9 10.60 151.15

DIFFERENTIAL CORRECTIONS

TDE-1.1044 TRA 6.8802 TC3-1.3289 BAU 1.0624
 RDE .4103 RRA .3617 RC3 -.0250 FAU .00757
 FDE -.3419 FRA 1.7724 FC3 -.1096 BSP 19467
 BDE 1.1782 BRA 6.8897 BC3 1.3292 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 5841.4 SGR 418.0 SG3 123.2
 RRT .5600 RRF .5460 RTF .9709
 SGB 5856.4 R23 .0005 R13 .9709
 SG1 5846.1 SG2 346.0 THA 2.30

ORBIT DETERMINATION ACCURACY

ST 1817.7 SR 315.8 SS 517.7
 CRT -.1924 CRS .2683 CST -.9967
 LSA 1890.6 MSA 311.8 SSA 11.2
 EL1 1818.8 EL2 309.7 ALF 178.03

1711A

LAUNCH DATE FEB 13 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 15 1969

DISTANCE 609.568

HELIOCENTRIC CONIC
RL 147.72 LAL .00 LOL 144.12 VL 26.140 GAL 15.44 AZL 91.22 MCA 308.54 SMA 119.18 ECC .35232 INC 1.2164 V1 30.162
RP 107.63 LAP .95 LOP 92.66 VP 36.778 GAP 19.90 AZP 90.76 TAL 146.36 TAP 94.90 RCA 77.19 APO 161.17 V2 35.209
RC 200.549 GL -3.70 GP -10.81 ZAL 37.02 ZAP 168.73 ETS 256.69 ZAE 129.09 ETE 188.93 ZAC 174.76 ETC 44.39 CLP 176.78

PLANETOCENTRIC CONIC
C3 68.889 VHL 8.300 DLA 18.66 RAL 108.21 RAD 6569.3 VEL 13.793 PTH 2.52 VHP 12.913 DPA 13.42 RAP 90.08 ECC 2.1337
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 6 27 15 3143.81 -26.79 108.78 359.84 80.46 7 19 39 2543.8 -27.83 98.27
90.00 23 35 0 4541.46 10.83 191.27 347.82 63.67 24 50 41 3941.5 7.20 184.47
100.00 7 59 54 2845.06 -28.67 85.14 .19 81.16 8 47 19 2245.1 -29.60 76.46
100.00 0 48 58 4315.45 12.53 173.78 346.94 62.64 2 0 54 3715.4 8.76 167.01
110.00 9 32 44 2554.64 -33.54 63.88 .98 82.96 10 15 18 1954.6 -34.15 54.69
110.00 1 32 38 4178.63 16.84 160.96 344.49 59.80 2 42 17 3578.6 12.70 154.29

MID-COURSE EXECUTION ACCURACY
SGT 5820.2 SGR 399.2 SG3 119.3 ST 1871.3 SR 302.5 S3 536.2
RRT .5467 RRF .5349 RTF .9738 CRT -.2310 CRS .2913 CST -.9978
SG8 5835.9 R23 .0008 R13 .9738 LSA 1947.6 MSA 295.5 SSA 10.7
SG1 5824.3 SG2 354.0 THA 2.15 EL1 1872.6 EL2 294.1 ALF 177.81

ORBIT DETERMINATION ACCURACY

DIFFERENTIAL CORRECTIONS
TDE -1.3127 TRA 7.4858 TC3 -1.0950 BAU 1.0086
RDE .4220 RRA .3724 RC3 -.0180 FAU .00591
FDE -.3745 FRA 1.8531 FC3 -.0743 BSP 19372
BOE 1.3789 BRA 7.4950 BC3 1.0951 FSP -406

LAUNCH DATE FEB 13 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 17 1969

DISTANCE 613.172

HELIOCENTRIC CONIC
RL 147.72 LAL .00 LOL 144.12 VL 26.109 GAL 16.87 AZL 91.52 MCA 311.77 SMA 119.01 ECC .37084 INC 1.5206 V1 30.162
RP 107.60 LAP 1.13 LOP 95.90 VP 36.763 GAP 21.09 AZP 91.01 TAL 145.38 TAP 97.15 RCA 74.87 APO 163.14 V2 35.217
RC 202.227 GL -4.26 GP -10.64 ZAL 35.80 ZAP 168.52 ETS 251.08 ZAE 128.82 ETE 188.73 ZAC 172.96 ETC 34.51 CLP 175.68

PLANETOCENTRIC CONIC
C3 79.802 VHL 8.933 DLA 17.94 RAL 109.47 RAD 6569.6 VEL 14.183 PTH 2.58 VHP 13.641 DPA 13.69 RAP 92.23 ECC 2.3133
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 6 39 46 3149.84 -26.72 107.21 3.44 80.25 7 32 16 2549.8 -27.79 98.70
90.00 23 32 31 4604.04 12.69 194.92 351.11 64.47 24 49 15 4004.0 9.15 188.03
100.00 8 11 42 2853.39 -28.58 85.75 3.79 80.85 8 59 16 2253.4 -29.55 77.08
100.00 0 47 12 4375.72 14.39 177.29 350.26 63.51 2 0 8 3775.7 10.72 170.42
110.00 9 43 7 2567.37 -33.43 64.86 4.62 82.39 10 25 55 1967.4 -34.12 55.68
110.00 1 32 16 4234.51 18.72 164.20 347.87 60.86 2 42 51 3634.5 14.69 157.39

MID-COURSE EXECUTION ACCURACY
SGT 5793.5 SGR 379.0 SG3 115.5 ST 1918.9 SR 289.0 S3 556.1
RRT .5501 RRF .5205 RTF .9768 CRT -.2672 CRS .3144 CST -.9986
SG8 5805.8 R23 .0012 R13 .9768 LSA 1999.2 MSA 279.3 SSA 10.1
SG1 5797.0 SG2 321.2 THA 1.99 EL1 1920.5 EL2 278.3 ALF 167.65

ORBIT DETERMINATION ACCURACY

DIFFERENTIAL CORRECTIONS
TDE -1.5369 TRA 8.1368 TC3 -.8851 BAU .9444
RDE .4344 RRA .3798 RC3 -.0121 FAU .00425
FDE -.4086 FRA 1.9401 FC3 -.0461 BSP 19381
BOE 1.5971 BRA 8.1457 BC3 .8852 FSP -394

LAUNCH DATE FEB 13 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 19 1969

DISTANCE 616.320

HELIOCENTRIC CONIC
RL 147.72 LAL .00 LOL 144.12 VL 26.079 GAL 18.46 AZL 91.86 MCA 315.00 SMA 118.84 ECC .39160 INC 1.8570 V1 30.162
RP 107.58 LAP 1.31 LOP 99.13 VP 36.749 GAP 22.44 AZP 91.31 TAL 144.52 TAP 99.52 RCA 72.30 APO 165.38 V2 35.225
RC 203.880 GL -4.77 GP -10.49 ZAL 34.73 ZAP 168.18 ETS 245.46 ZAE 128.49 ETE 188.52 ZAC 171.09 ETC 28.92 CLP 174.51

PLANETOCENTRIC CONIC
C3 92.980 VHL 9.643 DLA 17.28 RAL 110.57 RAD 6569.8 VEL 14.640 PTH 2.65 VHP 14.459 DPA 13.92 RAP 94.32 ECC 2.5302
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 6 50 51 3158.72 -26.61 107.83 6.88 79.95 7 43 30 2558.7 -27.73 99.35
90.00 23 30 14 4663.67 14.41 198.46 354.32 65.36 24 47 57 4063.7 10.97 191.47
100.00 8 22 10 2864.23 -28.46 86.53 7.24 80.46 9 9 54 2264.2 -29.49 77.88
100.00 0 45 32 4433.39 16.11 180.70 353.49 64.48 1 59 25 3833.4 12.54 173.73
110.00 9 52 22 2582.04 -33.29 65.98 8.12 81.74 10 35 24 1982.0 -34.07 56.83
110.00 1 31 49 4288.35 20.47 167.39 351.18 62.01 2 43 18 3688.4 16.57 160.44

MID-COURSE EXECUTION ACCURACY
SGT 5762.4 SGR 357.7 SG3 111.9 ST 1959.2 SR 275.7 S3 577.7
RRT .5098 RRF .5024 RTF .9798 CRT -.3005 CRS .3364 CST -.9991
SG8 5773.5 R23 .0018 R13 .9798 LSA 2044.2 MSA 263.3 SSA 9.6
SG1 5765.3 SG2 307.6 THA 1.82 EL1 1961.0 EL2 262.7 ALF 177.53

ORBIT DETERMINATION ACCURACY

DIFFERENTIAL CORRECTIONS
TDE -1.7730 TRA 8.8456 TC3 -.6950 BAU .8640
RDE .4481 RRA .3833 RC3 -.0071 FAU .00246
FDE -.4430 FRA 2.0366 FC3 -.0229 BSP 19360
BOE 1.8287 BRA 8.8539 BC3 .6950 FSP -381

LAUNCH DATE FEB 13 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 21 1969

DISTANCE 618.894

HELIOCENTRIC CONIC
RL 147.72 LAL .00 LOL 144.12 VL 26.050 GAL 20.22 AZL 92.23 MCA 318.23 SMA 118.68 ECC .41497 INC 2.2340 V1 30.162
RP 107.56 LAP 1.49 LOP 102.37 VP 36.735 GAP 23.96 AZP 91.67 TAL 143.81 TAP 102.05 RCA 69.43 APO 167.93 V2 35.232
RC 205.508 GL -5.24 GP -10.34 ZAL 33.83 ZAP 167.68 ETS 239.91 ZAE 128.08 ETE 188.30 ZAC 169.23 ETC 25.42 CLP 173.27

PLANETOCENTRIC CONIC
C3 109.017 VHL 10.441 DLA 16.68 RAL 111.51 RAD 6570.1 VEL 15.177 PTH 2.73 VHP 15.384 DPA 14.10 RAP 96.34 ECC 2.7941
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 7 0 30 3170.01 -26.48 108.63 10.14 79.58 7 53 20 2570.0 -27.65 100.16
90.00 23 28 3 4720.22 15.99 201.86 357.41 66.31 24 46 44 4120.2 12.65 194.77
100.00 8 31 18 2877.21 -28.31 87.47 10.52 79.99 9 19 15 2277.2 -29.40 78.83
100.00 0 43 53 4488.26 17.69 184.01 356.62 65.50 1 58 41 3888.3 14.24 176.92
110.00 10 0 26 2598.33 -33.12 67.22 11.45 81.02 10 43 44 1998.3 -34.01 58.10
110.00 1 31 14 4339.89 22.09 170.52 354.37 63.22 2 43 34 3739.9 18.32 163.41

MID-COURSE EXECUTION ACCURACY
SGT 5727.0 SGR 335.3 SG3 108.5 ST 1991.5 SR 262.5 S3 601.4
RRT .4840 RRF .4791 RTF .9827 CRT -.3322 CRS .3585 CST -.9995
SG8 5736.8 R23 .0025 R13 .9827 LSA 2082.1 MSA 247.7 SSA 9.1
SG1 5729.3 SG2 293.3 THA 1.63 EL1 1993.4 EL2 247.4 ALF 177.45

ORBIT DETERMINATION ACCURACY

DIFFERENTIAL CORRECTIONS
TDE -2.0224 TRA 9.6201 TC3 -.5239 BAU .7636
RDE .4633 RRA .3816 RC3 -.0031 FAU .00049
FDE -.4785 FRA 2.1442 FC3 -.0039 BSP 19322
BOE 2.0748 BRA 9.6276 BC3 .5239 FSP -369

LAUNCH DATE FEB 14 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 25 1969

HELIOCENTRIC CONIC

DISTANCE 181.142

RL 147.75 LAL .00 LOL 145.13 VL 26.287 GAL -6.14 AZL 88.20 MCA 79.77 SMA 120.05 ECC .25309 INC 1.8041 V1 30.156
 RP 108.25 LAP 1.78 LOP 224.89 VP 36.694 GAP -13.55 AZP 89.68 TAL 198.86 TAP 278.62 RCA 89.67 APO 150.43 V2 35.007
 RC 48.205 GL 9.14 GP 12.72 ZAL 127.44 ZAP 13.31 ETS 290.22 ZAE 150.12 ETE 10.83 ZAC 128.34 ETC 152.83 CLP -3.95

PLANETOCENTRIC CONIC

C3 26.838 VHL 5.181 DLA 15.15 RAL 12.17 RAD 6568.1 VEL 12.174 PTH 2.18 VHP 9.081 DPA 25.08 RAP 34.21 ECC 1.4417
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 44 2777.18 -28.10 80.16 244.31 93.64 1 21 1 2177.2 -27.30 71.59
 90.00 16 33 28 4438.90 7.67 185.39 236.82 62.66 17 47 27 3838.9 3.95 178.69
 100.00 2 4 19 2488.28 -29.52 58.79 244.19 94.91 2 45 47 1888.3 -28.53 50.13
 100.00 17 46 34 4203.03 8.93 167.37 236.14 61.35 18 56 37 3603.0 5.04 160.75
 110.00 3 30 56 2217.26 -33.27 37.70 243.68 98.36 4 7 53 1617.3 -31.75 28.80
 110.00 18 36 26 4046.81 12.18 153.58 234.20 57.81 19 43 53 3446.8 7.84 147.17

DIFFERENTIAL CORRECTIONS

TDE -.2488 TRA -.3792 TC3 .4721 BAU .1740
 RDE -.3536 RRA .1482 RC3 .1109 FAU .03367
 FDE .0673 FRA -.0604 FC3-1.0862 BSP 2035
 BDE .4324 BRA .4072 BC3 .4850 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 709.8 SGR 441.6 SG3 97.6
 RRT .2872 RRF -.3410 RTF -.6744
 SGB 835.9 R23 -.0496 R13 -.6899
 SG1 726.7 SG2 413.1 THA 15.12

ORBIT DETERMINATION ACCURACY

ST 304.8 SR 394.4 SS 66.2
 CRT .8403 CRS .9105 CST .7107
 LSA 483.1 MSA 137.2 SSA 26.1
 EL1 479.6 EL2 135.9 ALF 53.61

LAUNCH DATE FEB 14 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 187.904

RL 147.75 LAL .00 LOL 145.13 VL 26.505 GAL -6.14 AZL 88.38 MCA 82.96 SMA 121.31 ECC .24166 INC 1.6234 V1 30.156
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.837 GAP -12.58 AZP 89.80 TAL 200.14 TAP 283.10 RCA 91.99 APO 150.63 V2 34.994
 RC 49.590 GL 8.56 GP 13.53 ZAL 129.25 ZAP 14.88 ETS 297.95 ZAE 148.72 ETE 12.51 ZAC 128.68 ETC 151.76 CLP -6.25

PLANETOCENTRIC CONIC

C3 25.161 VHL 5.016 DLA 13.93 RAL 10.74 RAD 6568.0 VEL 12.105 PTH 2.17 VHP 8.545 DPA 26.15 RAP 34.77 ECC 1.4141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 5 2717.95 -27.77 75.86 241.10 95.77 1 25 23 2118.0 -26.68 67.36
 90.00 16 16 44 4466.20 8.52 186.94 234.29 62.89 17 31 10 3866.2 4.82 180.22
 100.00 2 8 47 2431.87 -29.12 54.64 240.93 97.05 2 49 19 1831.9 -27.84 46.08
 100.00 17 30 42 4227.51 9.73 168.75 233.65 61.60 18 41 10 3627.5 5.86 162.10
 110.00 3 33 33 2166.66 -32.70 33.86 240.28 100.57 4 9 40 1566.7 -30.90 25.10
 110.00 18 22 26 4065.49 12.86 154.61 231.79 58.05 19 30 12 3465.5 8.54 148.17

DIFFERENTIAL CORRECTIONS

TDE -.2378 TRA -.3576 TC3 .5308 BAU .1849
 RDE -.3407 RRA .1516 RC3 .1425 FAU .03660
 FDE .0453 FRA -.0950 FC3-1.2594 BSP 2136
 BDE .4155 BRA .3884 BC3 .5496 FSP -276

MID-COURSE EXECUTION ACCURACY

SGT 731.1 SGR 451.3 SG3 109.7
 RRT .3235 RRF -.3851 RTF -.6893
 SGB 859.2 R23 -.0585 R13 -.7079
 SG1 752.3 SG2 415.0 THA 16.42

ORBIT DETERMINATION ACCURACY

ST 300.0 SR 392.8 SS 53.4
 CRT .8403 CRS .7767 CST .4798
 LSA 477.2 MSA 136.7 SSA 28.4
 EL1 475.7 EL2 134.3 ALF 53.99

LAUNCH DATE FEB 14 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 194.660

RL 147.75 LAL .00 LOL 145.13 VL 26.700 GAL -6.15 AZL 88.55 MCA 86.16 SMA 122.48 ECC .23147 INC 1.4453 V1 30.156
 RP 108.33 LAP 1.44 LOP 231.28 VP 36.966 GAP -11.65 AZP 89.90 TAL 201.44 TAP 287.59 RCA 94.13 APO 150.83 V2 34.980
 RC 51.091 GL 7.89 GP 14.42 ZAL 131.03 ZAP 16.76 ETS 304.27 ZAE 147.50 ETE 14.27 ZAC 128.89 ETC 150.66 CLP -8.63

PLANETOCENTRIC CONIC

C3 23.765 VHL 4.875 DLA 12.64 RAL 9.40 RAD 6568.0 VEL 12.048 PTH 2.15 VHP 8.041 DPA 27.28 RAP 35.21 ECC 1.3911
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 45 55 2659.51 -27.30 71.65 238.11 97.83 1 30 14 2059.5 -25.93 63.25
 90.00 16 0 8 4496.59 9.46 188.68 232.00 63.19 17 15 5 3896.6 5.79 181.93
 100.00 2 13 46 2376.17 -28.59 50.59 237.89 99.12 2 53 22 1776.2 -27.03 42.13
 100.00 17 14 58 4255.18 10.62 170.32 231.39 61.89 18 25 53 3655.2 6.78 163.64
 110.00 3 36 42 2116.69 -32.01 30.12 237.13 102.68 4 11 59 1516.7 -29.94 21.53
 110.00 18 8 32 4087.41 13.64 155.82 229.61 58.35 19 16 39 3487.4 9.36 149.34

DIFFERENTIAL CORRECTIONS

TDE -.2255 TRA -.3369 TC3 .5879 BAU .1953
 RDE -.3278 RRA .1560 RC3 .1794 FAU .03988
 FDE .0176 FRA -.1340 FC3-1.4530 BSP 2228
 BDE .3978 BRA .3713 BC3 .6147 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 750.7 SGR 462.9 SG3 123.2
 RRT .3628 RRF -.4335 RTF -.7025
 SGB 881.9 R23 -.0689 R13 -.7249
 SG1 777.3 SG2 416.6 THA 17.92

ORBIT DETERMINATION ACCURACY

ST 292.1 SR 389.4 SS 47.0
 CRT .8379 CRS .4147 CST .0162
 LSA 468.6 MSA 136.5 SSA 30.9
 EL1 468.4 EL2 132.6 ALF 54.58

LAUNCH DATE FEB 14 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 201.406

RL 147.75 LAL .00 LOL 145.13 VL 26.876 GAL -6.17 AZL 88.73 MCA 89.35 SMA 123.55 ECC .22243 INC 1.2686 V1 30.156
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.081 GAP -10.77 AZP 89.99 TAL 202.74 TAP 292.08 RCA 96.07 APO 151.03 V2 34.967
 RC 52.697 GL 7.15 GP 15.40 ZAL 132.76 ZAP 18.91 ETS 309.41 ZAE 146.47 ETE 16.16 ZAC 128.94 ETC 149.54 CLP -11.11

PLANETOCENTRIC CONIC

C3 22.604 VHL 4.754 DLA 11.30 RAL 8.15 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 7.568 DPA 28.45 RAP 35.51 ECC 1.3720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 52 13 2602.12 -26.70 67.55 235.35 99.80 1 35 35 2002.1 -25.07 59.26
 90.00 15 43 52 4529.56 10.47 190.58 229.96 63.54 16 59 21 3929.6 6.83 183.79
 100.00 2 19 15 2321.43 -27.94 46.65 235.10 101.09 2 57 56 1721.4 -26.12 38.32
 100.00 16 59 31 4285.48 11.59 172.05 229.37 62.25 18 10 57 3685.5 7.78 165.33
 110.00 3 40 23 2067.56 -31.22 26.51 234.23 104.68 4 14 50 1467.6 -28.89 18.08
 110.00 17 54 53 4112.11 14.52 157.19 227.67 58.71 19 3 25 3512.1 10.27 150.67

DIFFERENTIAL CORRECTIONS

TDE -.2116 TRA -.3173 TC3 .6416 BAU .2052
 RDE -.3144 RRA .1616 RC3 .2223 FAU .04355
 FDE -.0167 FRA -.1775 FC3-1.6682 BSP 2321
 BDE .3790 BRA .3561 BC3 .6790 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 767.7 SGR 477.2 SG3 138.3
 RRT .4045 RRF -.4855 RTF -.7139
 SGB 903.9 R23 -.0806 R13 -.7412
 SG1 801.4 SG2 418.0 THA 19.67

ORBIT DETERMINATION ACCURACY

ST 281.2 SR 383.6 SS 54.5
 CRT .8324 CRS -.1070 CST -.5082
 LSA 457.5 MSA 136.9 SSA 33.6
 EL1 457.3 EL2 130.7 ALF 55.39

LAUNCH DATE FEB 14 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 3 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.034 GAL -6.20 AZL 88.91 HCA 92.53 SMA 124.54 ECC .21444 INC 1.0924 V1 30.156
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.183 GAP -9.93 AZP 90.05 TAL 204.02 TAP 296.56 RCA 97.83 APO 151.24 V2 34.954
 RC 54.398 GL 6.32 GP 16.49 ZAL 134.42 ZAP 21.31 ETS 313.59 ZAE 145.63 ETE 18.22 ZAC 128.82 ETC 148.41 CLP -13.69

PLANETOCENTRIC CONIC
 C3 21.639 VHL 4.652 DLA 9.92 RAL 7.01 RAD 6567.9 VEL 11.959 PTH 2.13 VHP 7.126 DPA 29.69 RAP 35.66 ECC 1.3561
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 58 59 2545.93 -25.99 63.60 232.86 101.66 1 41 24 1945.9 -24.12 55.42
 90.00 15 28 2 4564.63 11.52 192.62 228.17 63.95 16 44 7 3964.6 7.93 185.78
 100.00 2 25 13 2267.80 -27.17 42.85 232.57 102.96 3 3 1 1667.8 -25.12 34.65
 100.00 16 44 29 4317.99 12.61 173.92 227.61 62.67 17 56 27 3718.0 8.85 167.15
 110.00 3 44 35 2019.43 -30.34 23.04 231.61 106.56 4 18 14 1419.4 -27.77 14.79
 110.00 17 41 36 4139.13 15.47 158.71 225.97 59.13 18 50 36 3539.1 11.26 152.13

MID-COURSE EXECUTION ACCURACY
 SGT 781.7 SGR 494.9 SG3 155.3
 RRT .4477 RRF -.5404 RTF -.7229
 SGB 925.2 R23 -.0941 R13 -.7566
 SG1 824.6 SG2 419.5 THA 21.71

ORBIT DETERMINATION ACCURACY
 ST 267.9 SR 375.4 SS 75.9
 CRT .8230 CRS -.4527 CST -.7863
 LSA 445.0 MSA 138.2 SSA 36.2
 EL1 442.8 EL2 129.0 ALF 56.34

DIFFERENTIAL CORRECTIONS
 TDE -.1968 TRA -.2993 TC3 .6900 BAU .2145
 RDE -.3004 RRA .1602 RC3 .2716 FAU .04764
 FDE -.0585 FRA -.2255 FC3-1.9060 BSP 2407
 BOE .3591 BRA .3433 BC3 .7416 FSP -412

LAUNCH DATE FEB 14 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 5 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.175 GAL -6.22 AZL 89.08 HCA 95.72 SMA 125.43 ECC .20740 INC .9154 V1 30.156
 RP 108.45 LAP .91 LOP 240.85 VP 37.274 GAP -9.13 AZP 90.09 TAL 205.28 TAP 301.00 RCA 99.42 APO 151.45 V2 34.942
 RC 56.186 GL 5.43 GP 17.70 ZAL 135.98 ZAP 23.94 ETS 317.05 ZAE 144.95 ETE 20.49 ZAC 128.51 ETC 147.30 CLP -16.39

PLANETOCENTRIC CONIC
 C3 20.839 VHL 4.565 DLA 8.50 RAL 6.00 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 6.712 DPA 30.98 RAP 35.62 ECC 1.3430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 6 11 2491.01 -25.17 59.78 230.62 103.41 1 47 42 1891.0 -23.08 51.73
 90.00 15 12 45 4601.42 12.61 194.77 226.65 64.44 16 29 27 4001.4 9.07 187.88
 100.00 2 31 40 2215.35 -26.32 39.19 230.30 104.71 3 8 35 1615.4 -24.04 31.13
 100.00 16 29 58 4352.31 13.67 175.92 226.11 63.16 17 42 30 3752.3 9.96 169.09
 110.00 3 49 19 1972.35 -29.38 19.71 229.27 108.31 4 22 11 1372.3 -26.60 11.63
 110.00 17 28 48 4168.07 16.47 160.35 224.53 59.62 18 38 17 3568.1 12.32 153.71

MID-COURSE EXECUTION ACCURACY
 SGT 791.7 SGR 517.3 SG3 174.0
 RRT .4907 RRF -.5969 RTF -.7293
 SGB 945.7 R23 -.1092 R13 -.7715
 SG1 846.6 SG2 421.5 THA 24.11

ORBIT DETERMINATION ACCURACY
 ST 252.5 SR 364.3 SS 106.1
 CRT .8085 CRS -.6213 CST -.8955
 LSA 431.8 MSA 140.5 SSA 38.8
 EL1 424.5 EL2 127.5 ALF 57.43

DIFFERENTIAL CORRECTIONS
 TDE -.1812 TRA -.2833 TC3 .7313 BAU .2233
 RDE -.2852 RRA .1760 RC3 .3279 FAU .05216
 FDE -.1091 FRA -.2779 FC3-2.1668 BSP 2492
 BOE .3379 BRA .3335 BC3 .8014 FSP -470

LAUNCH DATE FEB 14 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 7 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.300 GAL -6.25 AZL 89.26 HCA 98.90 SMA 126.25 ECC .20123 INC .7364 V1 30.156
 RP 108.49 LAP .73 LOP 244.03 VP 37.354 GAP -8.36 AZP 90.11 TAL 206.48 TAP 305.39 RCA 100.84 APO 151.65 V2 34.929
 RC 58.051 GL 4.45 GP 19.03 ZAL 137.43 ZAP 26.80 ETS 319.95 ZAE 144.44 ETE 23.02 ZAC 127.99 ETC 146.21 CLP -19.23

PLANETOCENTRIC CONIC
 C3 20.175 VHL 4.492 DLA 7.07 RAL 5.12 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 6.329 DPA 32.34 RAP 35.38 ECC 1.3320
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 53 2437.34 -24.28 56.10 228.65 105.04 1 54 30 1837.3 -21.98 48.19
 90.00 14 58 4 4639.62 13.72 197.02 225.38 64.99 16 15 23 4039.6 10.24 190.08
 100.00 2 38 36 2164.08 -25.39 35.66 228.30 106.34 3 14 40 1564.1 -22.90 27.74
 100.00 16 16 1 4388.11 14.76 178.02 224.86 63.71 17 29 10 3788.1 11.11 171.13
 110.00 3 54 34 1926.32 -28.35 16.52 227.21 109.95 4 26 41 1326.3 -25.37 8.61
 110.00 17 16 32 4198.64 17.52 162.11 223.33 60.17 18 26 31 3598.6 13.42 155.40

MID-COURSE EXECUTION ACCURACY
 SGT 798.2 SGR 545.9 SG3 195.1
 RRT .5332 RRF -.6538 RTF -.7357
 SGB 967.0 R23 -.1229 R13 -.7885
 SG1 869.0 SG2 424.2 THA 26.94

ORBIT DETERMINATION ACCURACY
 ST 233.6 SR 349.5 SS 143.4
 CRT .7855 CRS -.7057 CST -.9388
 LSA 418.2 MSA 143.8 SSA 41.0
 EL1 401.0 EL2 126.0 ALF 58.89

DIFFERENTIAL CORRECTIONS
 TDE -.1635 TRA -.2679 TC3 .7672 BAU .2325
 RDE -.2681 RRA .1853 RC3 .3925 FAU .05721
 FDE -.1711 FRA -.3358 FC3-2.4547 BSP 2608
 BOE .3140 BRA .3257 BC3 .8618 FSP -537

LAUNCH DATE FEB 14 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 9 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.411 GAL -6.27 AZL 89.45 HCA 102.09 SMA 126.98 ECC .19585 INC .5545 V1 30.156
 RP 108.53 LAP .54 LOP 247.21 VP 37.423 GAP -7.63 AZP 90.12 TAL 207.62 TAP 309.70 RCA 102.11 APO 151.85 V2 34.917
 RC 59.985 GL 3.41 GP 20.50 ZAL 138.76 ZAP 29.88 ETS 322.45 ZAE 144.05 ETE 25.86 ZAC 127.24 ETC 145.19 CLP -22.22

PLANETOCENTRIC CONIC
 C3 19.626 VHL 4.430 DLA 5.62 RAL 4.38 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 5.975 DPA 33.77 RAP 34.89 ECC 1.3230
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 22 3 2384.83 -23.30 52.56 226.94 106.56 2 1 48 1784.8 -20.81 44.78
 90.00 14 44 0 4679.00 14.84 199.37 224.37 65.61 16 1 59 4079.0 11.43 192.36
 100.00 2 46 3 2113.90 -24.38 32.27 226.57 107.85 3 21 17 1513.9 -21.71 24.49
 100.00 16 2 41 4425.16 15.87 180.21 223.87 64.33 17 16 26 3825.2 12.28 173.25
 110.00 4 0 23 1881.28 -27.27 13.47 225.43 111.46 4 31 44 1281.3 -24.11 5.73
 110.00 17 4 51 4230.54 18.59 163.96 222.39 60.78 18 15 21 3630.5 14.55 157.17

MID-COURSE EXECUTION ACCURACY
 SGT 797.9 SGR 581.6 SG3 217.8
 RRT .5703 RRF -.7084 RTF -.7357
 SGB 987.4 R23 -.1392 R13 -.8034
 SG1 889.5 SG2 428.5 THA 30.29

ORBIT DETERMINATION ACCURACY
 ST 216.4 SR 331.2 SS 184.5
 CRT .7536 CRS -.7473 CST -.9538
 LSA 408.3 MSA 148.3 SSA 42.7
 EL1 375.1 EL2 125.6 ALF 60.10

DIFFERENTIAL CORRECTIONS
 TDE -.1474 TRA -.2571 TC3 .7890 BAU .2403
 RDE -.2490 RRA .1956 RC3 .4653 FAU .06262
 FDE -.2428 FRA -.3954 FC3-2.7625 BSP 2683
 BOE .2893 BRA .3230 BC3 .9160 FSP -608

LAUNCH DATE FEB 14 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 234.872

RL 147.75 LAL .00 LOL 145.13 VL 27.508 GAL -6.29 AZL 89.63 HCA 105.26 SMA 127.63 ECC .19116 INC .3684 VI 30.156
 RP 108.57 LAP .36 LOP 250.39 VP 37.484 GAP -6.93 AZP 90.10 TAL 208.68 TAP 313.94 RCA 103.23 APO 152.03 V2 34.906
 RC 61.981 GL 2.30 GP 22.12 ZAL 139.95 ZAP 33.18 ETS 324.65 ZAE 143.77 ETE 29.07 ZAC 126.25 ETC 144.26 CLP -25.39

PLANETOCENTRIC CONIC

C3 19.171 VHL 4.378 DLA 4.15 RAL 3.79 RAD 6567.8 VEL 11.855 PTH 2.10 VHP 5.651 DPA 35.26 RAP 34.13 ECC 1.3155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 30 46 2333.28 -22.26 49.14 225.49 107.97 2 9 40 1733.3 -19.60 41.48
 90.00 14 30 34 4719.45 15.97 201.81 223.61 66.30 15 49 13 4119.4 12.63 194.73
 100.00 2 54 4 2064.64 -23.31 29.00 225.10 109.26 3 28 28 1464.6 -20.47 21.36
 100.00 15 49 57 4463.32 16.98 182.50 223.13 65.02 17 4 21 3863.3 13.47 175.47
 110.00 4 6 46 1837.08 -26.13 10.53 223.91 112.86 4 37 23 1237.1 -22.81 2.95
 110.00 16 53 44 4263.65 19.68 165.91 221.70 61.47 18 4 48 3663.6 15.71 159.03

DIFFERENTIAL CORRECTIONS

TDE -.1317 TRA -.2494 TC3 .7981 BAU .2480
 RDE -.2271 RRA .2071 RC3 .5472 FAU .06844
 FDE -.3270 FRA -.4573 FC3-3.0907 BSP 2757
 BOE .2625 BRA .3242 BC3 .9677 FSP -686

MID-COURSE EXECUTION ACCURACY

SGT 790.7 SGR 625.9 SG3 242.4
 RRT .6005 RRF -.7591 RTF -.7310
 SGB 1008.5 R23 -.1542 R13 -.8191
 SG1 909.9 SG2 435.0 THA 34.28

ORBIT DETERMINATION ACCURACY

ST 199.5 SR 308.5 SS 230.1
 CRT .7073 CRS -.7657 CST -.9545
 LSA 403.2 MSA 153.1 SSA 43.7
 EL1 345.1 EL2 126.1 ALF 61.23

LAUNCH DATE FEB 14 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 241.497

RL 147.75 LAL .00 LOL 145.13 VL 27.593 GAL -6.31 AZL 89.82 HCA 108.44 SMA 128.21 ECC .18710 INC .1764 VI 30.156
 RP 108.60 LAP .17 LOP 253.57 VP 37.536 GAP -6.26 AZP 90.06 TAL 209.64 TAP 318.08 RCA 104.22 APO 152.20 V2 34.894
 RC 64.032 GL 1.12 GP 23.90 ZAL 140.98 ZAP 36.71 ETS 326.67 ZAE 143.54 ETE 32.70 ZAC 125.00 ETC 143.45 CLP -28.74

PLANETOCENTRIC CONIC

C3 18.796 VHL 4.335 DLA 2.67 RAL 3.35 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 5.357 DPA 36.82 RAP 33.06 ECC 1.3093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 40 5 2282.46 -21.16 45.83 224.29 109.27 2 18 7 1682.5 -18.33 38.29
 90.00 14 17 43 4760.95 17.09 204.35 223.09 67.07 15 37 4 4161.0 13.83 197.18
 100.00 3 2 40 2016.07 -22.19 25.83 223.89 110.56 3 36 16 1416.1 -19.19 18.32
 100.00 15 37 49 4502.57 18.09 184.88 222.63 65.79 16 52 51 3902.6 14.67 177.76
 110.00 4 13 46 1793.53 -24.95 7.70 222.65 114.16 4 43 39 1193.5 -21.47 .28
 110.00 16 43 12 4297.87 20.78 167.96 221.24 62.22 17 54 50 3697.9 16.90 160.98

DIFFERENTIAL CORRECTIONS

TDE -.1171 TRA -.2454 TC3 .7930 BAU .2560
 RDE -.2017 RRA .2198 RC3 .6393 FAU .07459
 FDE -.4243 FRA -.5194 FC3-3.4357 BSP 2832
 BOE .2333 BRA .3294 BC3 1.0186 FSP -770

MID-COURSE EXECUTION ACCURACY

SGT 776.0 SGR 680.3 SG3 268.6
 RRT .6213 RRF -.8046 RTF -.7207
 SGB 1032.0 R23 -.1653 R13 -.8364
 SG1 931.6 SG2 444.1 THA 39.00

ORBIT DETERMINATION ACCURACY

ST 184.1 SR 281.0 SS 279.6
 CRT .6403 CRS -.7660 CST -.9447
 LSA 405.6 MSA 156.9 SSA 44.0
 EL1 310.6 EL2 127.9 ALF 62.12

LAUNCH DATE FEB 14 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 248.096

RL 147.75 LAL .00 LOL 145.13 VL 27.667 GAL -6.32 AZL 90.02 HCA 111.62 SMA 128.72 ECC .18358 INC .0171 VI 30.156
 RP 108.64 LAP -.02 LOP 256.74 VP 37.580 GAP -5.62 AZP 89.99 TAL 210.50 TAP 322.12 RCA 105.09 APO 152.35 V2 34.883
 RC 66.131 GL -.14 GP 25.83 ZAL 141.86 ZAP 40.47 ETS 328.58 ZAE 143.32 ETE 36.79 ZAC 123.49 ETC 142.78 CLP -32.30

PLANETOCENTRIC CONIC

C3 18.487 VHL 4.300 DLA 1.17 RAL 3.05 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 5.094 DPA 38.43 RAP 31.64 ECC 1.3043
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 2 2232.04 -19.99 42.59 223.34 110.48 2 27 15 1632.0 -17.02 35.17
 90.00 14 5 24 4803.60 18.20 206.98 222.82 67.92 15 25 28 4203.6 15.04 199.72
 100.00 3 11 56 1967.91 -21.00 22.75 222.92 111.77 3 44 44 1367.9 -17.86 15.36
 100.00 15 26 12 4542.96 19.20 187.37 222.38 66.64 16 41 55 3943.0 15.88 180.16
 110.00 4 21 25 1750.39 -23.72 4.95 221.64 115.37 4 50 36 1150.4 -20.11 357.68
 110.00 16 33 12 4333.24 21.88 170.11 221.03 63.06 17 45 25 3733.2 18.09 163.03

DIFFERENTIAL CORRECTIONS

TDE -.1032 TRA -.2443 TC3 .7745 BAU .2632
 RDE -.1717 RRA .2338 RC3 .7428 FAU .08106
 FDE -.5378 FRA -.5818 FC3-3.7957 BSP 2950
 BOE .2003 BRA .3381 BC3 1.0731 FSP -863

MID-COURSE EXECUTION ACCURACY

SGT 754.0 SGR 746.7 SG3 296.4
 RRT .6314 RRF -.8443 RTF -.7048
 SGB 1061.1 R23 -.1677 R13 -.8566
 SG1 958.4 SG2 455.5 THA 44.56

ORBIT DETERMINATION ACCURACY

ST 169.8 SR 247.9 SS 334.4
 CRT .5394 CRS -.7452 CST -.9245
 LSA 418.4 MSA 158.5 SSA 43.6
 EL1 270.4 EL2 131.1 ALF 62.85

LAUNCH DATE FEB 14 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 254.667

RL 147.75 LAL .00 LOL 145.13 VL 27.730 GAL -6.32 AZL 90.23 HCA 114.79 SMA 129.15 ECC .18055 INC .2293 VI 30.156
 RP 108.67 LAP -.21 LOP 259.92 VP 37.616 GAP -5.01 AZP 89.90 TAL 211.26 TAP 326.04 RCA 105.83 APO 152.47 V2 34.873
 RC 68.274 GL -1.48 GP 27.93 ZAL 142.57 ZAP 44.44 ETS 330.47 ZAE 143.05 ETE 41.37 ZAC 121.72 ETC 142.30 CLP -36.09

PLANETOCENTRIC CONIC

C3 18.236 VHL 4.270 DLA -.35 RAL 2.91 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 4.863 DPA 40.09 RAP 29.85 ECC 1.3001
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 0 45 2181.66 -18.76 39.41 222.63 111.61 2 37 7 1581.7 -15.66 32.10
 90.00 13 53 33 4847.57 19.30 209.74 222.79 68.87 15 14 21 4247.6 16.26 202.38
 100.00 3 21 56 1919.80 -19.76 19.72 222.20 112.90 3 53 56 1319.8 -16.49 12.45
 100.00 15 15 4 4584.66 20.30 189.98 222.36 67.58 16 31 28 3984.7 17.09 182.66
 110.00 4 29 48 1707.36 -22.44 2.27 220.88 116.49 4 58 16 1107.4 -18.70 355.13
 110.00 16 23 41 4369.86 22.99 172.37 221.06 63.98 17 36 31 3769.4 19.31 165.17

DIFFERENTIAL CORRECTIONS

TDE -.0936 TRA -.2492 TC3 .7339 BAU .2749
 RDE -.1372 RRA .2478 RC3 .8560 FAU .08741
 FDE -.6625 FRA -.6363 FC3-4.1495 BSP 3047
 BOE .1661 BRA .3515 BC3 1.1275 FSP -954

MID-COURSE EXECUTION ACCURACY

SGT 721.4 SGR 824.0 SG3 324.2
 RRT .6227 RRF -.8770 RTF -.6739
 SGB 1095.2 R23 -.1623 R13 -.8772
 SG1 989.1 SG2 470.3 THA 51.04

ORBIT DETERMINATION ACCURACY

ST 161.9 SR 210.5 SS 391.2
 CRT .3969 CRS -.6924 CST -.8981
 LSA 443.8 MSA 157.4 SSA 42.7
 EL1 227.0 EL2 137.8 ALF 61.89

LAUNCH DATE FEB 14 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 261.210

RL 147.75 LAL .00 LOL 145.13 VL 27.783 GAL -6.32 AZL 90.45 HCA 117.96 SMA 129.53 ECC .17794 INC .4478 V1 30.156
 RP 108.70 LAP -.40 LOP 263.09 VP 37.646 GAP -4.43 AZP 89.79 TAL 211.90 TAP 329.86 RCA 106.48 APO 152.58 V2 34.862
 RC 70.456 GL -2.91 GP 30.18 ZAL 143.11 ZAP 48.62 ETS 332.41 ZAE 142.66 ETE 46.44 ZAC 119.68 ETC 142.03 CLP -40.13

PLANETOCENTRIC CONIC

C3 18.036 VHL 4.247 DLA -1.91 RAL 2.92 RAD 6567.7 VEL 11.808 PTH 2.09 VHP 4.664 DPA 41.78 RAP 27.64 ECC 1.2968
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 20 2130.86 -17.45 36.25 222.17 112.66 2 47 51 1530.9 -14.23 29.05
 90.00 13 42 5 4893.20 20.39 212.64 223.00 69.92 15 3 38 4293.2 17.47 205.18
 100.00 3 32 48 1871.34 -18.45 16.72 221.72 113.95 4 3 59 1271.3 -15.06 9.56
 100.00 15 4 18 4627.96 21.40 192.72 222.59 68.62 16 21 26 4028.0 18.31 185.29
 110.00 4 39 0 1664.09 -21.10 359.63 220.36 117.54 5 6 44 1064.1 -17.24 352.62
 110.00 16 14 35 4407.97 24.11 174.76 221.33 65.00 17 28 3 3808.0 20.54 167.44

DIFFERENTIAL CORRECTIONS

TDE -.0865 TRA -.2575 TC3 .6762 BAU .2873
 RDE -.0960 RRA .2625 RC3 .9811 FAU .09369
 FDE -.8032 FRA -.6851 FC3-4.4974 BSP 3210
 BDE .1292 BRA .3677 BC3 1.1916 FSP -1052

MID-COURSE EXECUTION ACCURACY

SGT 681.4 SGR 914.8 SG3 352.2
 RRT .5945 RRF -.9038 RTF -.6285
 SGB 1140.7 R23 -.1429 R13 -.8996
 SG1 1032.2 SG2 485.6 THA 58.34

ORBIT DETERMINATION ACCURACY

ST 157.5 SR 169.4 SS 453.2
 CRT .1674 CRS -.5669 CST -.8666
 LSA 483.2 MSA 153.8 SSA 41.2
 EL1 177.8 EL2 147.9 ALF 56.81

LAUNCH DATE FEB 14 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 267.724

RL 147.75 LAL .00 LOL 145.13 VL 27.828 GAL -6.31 AZL 90.68 HCA 121.13 SMA 129.84 ECC .17570 INC .6794 V1 30.156
 RP 108.73 LAP -.58 LOP 266.26 VP 37.670 GAP -3.87 AZP 89.65 TAL 212.42 TAP 333.55 RCA 107.03 APO 152.66 V2 34.853
 RC 72.672 GL -4.45 GP 32.57 ZAL 143.45 ZAP 52.98 ETS 334.46 ZAE 142.07 ETE 51.96 ZAC 117.39 ETC 142.00 CLP -44.41

PLANETOCENTRIC CONIC

C3 17.881 VHL 4.229 DLA -3.51 RAL 3.09 RAD 6567.7 VEL 11.801 PTH 2.09 VHP 4.500 DPA 43.46 RAP 25.01 ECC 1.2943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 24 56 2079.15 -16.07 33.08 221.94 113.63 2 59 35 1479.1 -12.74 25.99
 90.00 13 30 51 4940.91 21.48 215.72 223.46 71.09 14 53 11 4340.9 18.70 208.14
 100.00 3 44 38 1822.04 -17.06 13.71 221.48 114.93 4 15 0 1222.0 -13.56 6.67
 100.00 14 53 49 4673.25 22.50 195.64 223.07 69.78 16 11 43 4073.3 19.54 188.09
 110.00 4 49 7 1620.18 -19.69 356.99 220.08 118.52 5 16 7 1020.2 -15.73 350.11
 110.00 16 5 50 4447.88 25.24 177.32 221.86 66.14 17 19 58 3847.9 21.79 169.86

DIFFERENTIAL CORRECTIONS

TDE -.0865 TRA -.2723 TC3 .5922 BAU .3015
 RDE -.0489 RRA .2756 RC3 1.1133 FAU .09923
 FDE -.9509 FRA -.7172 FC3-4.8044 BSP 3371
 BDE .0994 BRA .3875 BC3 1.2610 FSP -1138

MID-COURSE EXECUTION ACCURACY

SGT 633.4 SGR 1015.4 SG3 377.8
 RRT .5302 RRF -.9246 RTF -.5503
 SGB 1196.8 R23 -.1139 R13 -.9203
 SG1 1086.4 SG2 502.0 THA 66.36

ORBIT DETERMINATION ACCURACY

ST 162.1 SR 133.4 SS 515.9
 CRT -.1972 CRS -.2776 CST -.8445
 LSA 535.2 MSA 148.9 SSA 39.2
 EL1 167.4 EL2 126.5 ALF 157.42

LAUNCH DATE FEB 14 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 274.210

RL 147.75 LAL .00 LOL 145.13 VL 27.864 GAL -6.30 AZL 90.93 HCA 124.29 SMA 130.10 ECC .17378 INC .9268 V1 30.156
 RP 108.76 LAP -.77 LOP 269.42 VP 37.689 GAP -3.33 AZP 89.48 TAL 212.83 TAP 337.12 RCA 107.49 APO 152.71 V2 34.844
 RC 74.919 GL -6.10 GP 35.08 ZAL 143.60 ZAP 57.49 ETS 336.69 ZAE 141.22 ETE 57.85 ZAC 114.88 ETC 142.23 CLP -48.95

PLANETOCENTRIC CONIC

C3 17.773 VHL 4.216 DLA -5.17 RAL 3.43 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 4.372 DPA 45.13 RAP 21.92 ECC 1.2925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 38 43 2025.90 -14.59 29.88 221.97 114.54 3 12 29 1425.9 -11.16 22.88
 90.00 13 19 42 4991.33 22.55 219.02 224.19 72.41 14 42 54 4391.3 19.93 211.33
 100.00 3 57 38 1771.35 -15.58 10.68 221.49 115.84 4 27 9 1171.4 -11.98 3.74
 100.00 14 43 29 4721.11 23.59 198.78 223.82 71.09 16 2 10 4121.1 20.79 191.10
 110.00 5 0 18 1575.16 -18.21 354.35 220.05 119.44 5 26 33 975.2 -14.15 347.58
 110.00 15 57 18 4490.06 26.37 180.08 222.66 67.42 17 12 8 3890.1 23.07 172.46

DIFFERENTIAL CORRECTIONS

TDE -.0933 TRA -.2918 TC3 .4850 BAU .3191
 RDE .0057 RRA .2867 RC3 1.2522 FAU .10388
 FDE -1.1059 FRA -.7316 FC3-5.0602 BSP 3587
 BDE .0934 BRA .4091 BC3 1.3429 FSP -1215

MID-COURSE EXECUTION ACCURACY

SGT 584.7 SGR 1126.0 SG3 400.2
 RRT .4176 RRF -.9408 RTF -.4270
 SGB 1268.8 R23 -.0769 R13 -.9384
 SG1 1159.0 SG2 516.2 THA 74.65

ORBIT DETERMINATION ACCURACY

ST 174.6 SR 121.8 SS 580.9
 CRT -.6875 CRS .2720 CST -.8368
 LSA 600.6 MSA 143.6 SSA 36.8
 EL1 198.1 EL2 78.0 ALF 149.08

LAUNCH DATE FEB 14 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 280.666

RL 147.75 LAL .00 LOL 145.13 VL 27.893 GAL -6.27 AZL 91.19 HCA 127.46 SMA 130.31 ECC .17214 INC 1.1934 V1 30.156
 RP 108.78 LAP -.95 LOP 272.59 VP 37.702 GAP -2.82 AZP 89.27 TAL 213.12 TAP 340.57 RCA 107.88 APO 152.74 V2 34.835
 RC 77.194 GL -7.89 GP 37.70 ZAL 143.54 ZAP 62.10 ETS 339.15 ZAE 140.05 ETE 64.00 ZAC 112.18 ETC 142.74 CLP -53.74

PLANETOCENTRIC CONIC

C3 17.713 VHL 4.209 DLA -6.90 RAL 3.93 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 4.280 DPA 46.73 RAP 18.41 ECC 1.2915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 53 56 1970.41 -12.99 26.58 222.26 115.38 3 26 47 1370.4 -9.47 19.68
 90.00 13 8 28 5045.25 23.62 222.62 225.19 73.91 14 32 34 4445.3 21.18 214.79
 100.00 4 11 59 1718.62 -13.99 7.57 221.76 116.69 4 40 38 1118.6 -10.30 .72
 100.00 14 33 7 4772.27 24.68 202.19 224.84 72.57 15 52 39 4172.3 22.06 194.37
 110.00 5 12 42 1528.53 -16.63 351.66 220.27 120.31 5 38 11 928.5 -12.48 345.01
 110.00 15 48 53 4535.13 27.51 183.08 223.74 68.86 17 4 28 3935.1 24.39 175.30

DIFFERENTIAL CORRECTIONS

TDE -.1079 TRA -.3146 TC3 .3557 BAU .3410
 RDE .0693 RRA .2952 RC3 1.3955 FAU .10740
 FDE -1.2659 FRA -.7277 FC3-5.2490 BSP 3890
 BDE .1283 BRA .4314 BC3 1.4401 FSP -1286

MID-COURSE EXECUTION ACCURACY

SGT 545.4 SGR 1246.0 SG3 418.7
 RRT .2402 RRF -.9533 RTF -.2418
 SGB 1360.2 R23 -.0378 R13 -.9526
 SG1 1254.4 SG2 525.9 THA 82.71

ORBIT DETERMINATION ACCURACY

ST 196.0 SR 157.7 SS 648.7
 CRT -.9462 CRS .7356 CST -.8457
 LSA 680.9 MSA 139.0 SSA 33.9
 EL1 248.4 EL2 40.3 ALF 141.52

LAUNCH DATE FEB 14 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 287.094

RL 147.75 LAL .00 LOL 145.13 VL 27.915 GAL -6.24 AZL 91.48 MCA 130.62 SMA 130.46 ECC .17074 INC 1.4835 VI 30.156
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.711 GAP -2.33 AZP 89.03 TAL 213.29 TAP 343.91 RCA 108.19 APO 152.74 V2 34.827
 RC 79.493 GL -9.83 GP 40.38 ZAL 143.24 ZAP 66.74 ETS 341.89 ZAE 136.52 ETE 70.26 ZAC 109.34 ETC 143.51 CLP -58.77

PLANETOCENTRIC CONIC

C3 17.707 VHL 4.208 DLA -8.72 RAL 4.61 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 4.227 DPA 48.25 RAP 14.50 ECC 1.2914
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 10 54 1911.80 -11.26 23.15 222.83 116.15 3 42 46 1311.8 -7.65 16.33
 90.00 12 56 55 5103.71 24.66 226.58 226.50 75.63 14 21 59 4503.7 22.45 218.61
 100.00 4 28 0 1663.07 -12.27 4.34 222.31 117.47 4 55 43 1063.1 -8.49 357.59
 100.00 14 22 30 4827.67 25.75 205.95 226.18 74.28 15 42 58 4227.7 23.35 197.98
 110.00 5 26 35 1479.66 -14.93 348.89 220.78 121.11 5 51 14 879.7 -10.70 342.34
 110.00 15 40 25 4583.84 28.66 186.40 225.14 70.52 16 56 49 3983.8 25.74 178.45

DIFFERENTIAL CORRECTIONS

TDE -.1349 TRA -.3420 TC3 .1995 BAU .3660
 RDE .1403 RRA .2976 RC3 1.5333 FAU .10904
 FDE-1.4179 FRA -.6955 FC3-5.3311 BSP 4221
 BOE .1946 BRA .4533 BC3 1.5462 FSP -1328

MID-COURSE EXECUTION ACCURACY

SGT 532.7 SGR 1367.4 SG3 430.1
 RRT -.0159 RRF -.9626 RTF .0199
 SGB 1467.5 R23 -.0018 R13 -.9626
 SG1 1367.4 SG2 532.7 TMA 90.42

ORBIT DETERMINATION ACCURACY

ST 231.8 SR 230.5 SS 714.6
 CRT -.9784 CRS .9079 CST -.8699
 LSA 973.4 MSA 135.5 SSA 30.8
 EL1 325.1 EL2 33.9 ALF 135.16

LAUNCH DATE FEB 14 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 293.493

RL 147.75 LAL .00 LOL 145.13 VL 27.931 GAL -6.20 AZL 91.80 MCA 133.78 SMA 130.58 ECC .16955 INC 1.8022 VI 30.156
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.716 GAP -1.86 AZP 88.75 TAL 213.35 TAP 347.13 RCA 108.44 APO 152.72 V2 34.820
 RC 81.813 GL -11.96 GP 43.11 ZAL 142.70 ZAP 71.34 ETS 344.94 ZAE 136.63 ETE 76.49 ZAC 106.42 ETC 144.55 CLP -64.01

PLANETOCENTRIC CONIC

C3 17.768 VHL 4.215 DLA -10.67 RAL 5.47 RAD 6567.7 VEL 11.796 PTH 2.09 VHP 4.215 DPA 49.66 RAP 10.24 ECC 1.2924
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 1 1849.00 -9.35 19.52 223.74 116.85 4 0 50 1249.0 -5.67 12.77
 90.00 12 44 44 5168.10 25.68 231.02 228.16 77.63 14 10 52 4568.1 23.72 222.90
 100.00 4 46 2 1603.73 -10.38 .95 223.19 118.19 5 12 46 1003.7 -6.53 354.27
 100.00 14 11 24 4888.59 26.81 210.17 227.87 76.26 15 32 53 4288.6 24.65 202.04
 110.00 5 42 12 1427.85 -13.09 346.01 221.60 121.86 6 6 0 827.9 -8.78 339.55
 110.00 15 31 43 4637.25 29.82 190.13 226.91 72.45 16 49 1 4037.2 27.13 181.97

DIFFERENTIAL CORRECTIONS

TDE -.1752 TRA -.3712 TC3 .0215 BAU .3946
 RDE .2203 RRA .2930 RC3 1.6610 FAU .10877
 FDE-1.5599 FRA -.6376 FC3-5.2995 BSP 4615
 BOE .2815 BRA .4729 BC3 1.6611 FSP -1348

MID-COURSE EXECUTION ACCURACY

SGT 566.3 SGR 1488.2 SG3 434.0
 RRT -.3014 RRF -.9696 RTF .3082
 SGB 1592.3 R23 .0289 R13 -.9693
 SG1 1499.4 SG2 536.0 TMA 97.51

ORBIT DETERMINATION ACCURACY

ST 283.6 SR 325.9 SS 779.7
 CRT -.9739 CRS .9641 CST -.8986
 LSA 881.0 MSA 133.4 SSA 27.5
 EL1 429.3 EL2 48.9 ALF 130.93

LAUNCH DATE FEB 14 1969

FLIGHT TIME 106.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 299.863

RL 147.75 LAL .00 LOL 145.13 VL 27.941 GAL -6.15 AZL 92.16 MCA 136.93 SMA 130.65 ECC .16855 INC 2.1565 VI 30.156
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.717 GAP -1.40 AZP 88.42 TAL 213.30 TAP 350.24 RCA 108.63 APO 152.67 V2 34.813
 RC 84.153 GL -14.30 GP 45.85 ZAL 141.89 ZAP 75.83 ETS 348.31 ZAE 134.40 ETE 82.56 ZAC 103.46 ETC 145.84 CLP -69.43

PLANETOCENTRIC CONIC

C3 17.913 VHL 4.232 DLA -12.77 RAL 6.55 RAD 6567.7 VEL 11.802 PTH 2.09 VHP 4.247 DPA 50.96 RAP 5.70 ECC 1.2948
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 51 51 1780.58 -7.22 15.62 225.02 117.45 4 21 31 1180.6 -3.49 8.93
 90.00 12 31 29 5240.31 26.63 236.09 230.21 80.00 13 58 50 4640.3 24.98 227.82
 100.00 5 6 36 1539.42 -8.29 357.32 224.45 118.82 5 32 15 939.4 -4.38 350.71
 100.00 13 59 26 4956.70 27.82 214.98 229.96 78.60 15 22 2 4356.7 25.96 206.67
 110.00 5 59 59 1372.22 -11.07 342.96 222.77 122.55 6 22 51 772.2 -6.70 336.60
 110.00 15 22 32 4696.67 30.96 194.38 229.11 74.73 16 40 49 4096.7 28.56 186.01

DIFFERENTIAL CORRECTIONS

TDE -.2311 TRA -.3998 TC3 -.1726 BAU .4267
 RDE .3107 RRA .2810 RC3 1.7735 FAU .10661
 FDE-1.6897 FRA -.5597 FC3-5.1526 BSP 5091
 BOE .3872 BRA .4887 BC3 1.7819 FSP -1349

MID-COURSE EXECUTION ACCURACY

SGT 653.6 SGR 1607.1 SG3 430.8
 RRT -.5401 RRF -.9750 RTF .5474
 SGB 1735.0 R23 .0534 R13 -.9739
 SG1 1650.2 SG2 535.7 TMA 103.88

ORBIT DETERMINATION ACCURACY

ST 354.5 SR 438.8 SS 845.0
 CRT -.9725 CRS .9847 CST -.9250
 LSA 1007.0 MSA 132.7 SSA 24.0
 EL1 560.4 EL2 64.7 ALF 128.76

LAUNCH DATE FEB 14 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 306.206

RL 147.75 LAL .00 LOL 145.13 VL 27.945 GAL -6.09 AZL 92.56 MCA 140.09 SMA 130.68 ECC .16770 INC 2.5550 VI 30.156
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.715 GAP -.97 AZP 88.04 TAL 213.15 TAP 353.24 RCA 108.76 APO 152.59 V2 34.807
 RC 86.508 GL -16.89 GP 48.58 ZAL 140.78 ZAP 80.12 ETS 352.01 ZAE 131.84 ETE 88.36 ZAC 100.53 ETC 147.34 CLP -74.97

PLANETOCENTRIC CONIC

C3 18.172 VHL 4.263 DLA -15.04 RAL 7.86 RAD 6567.7 VEL 11.813 PTH 2.09 VHP 4.324 DPA 52.16 RAP .97 ECC 1.2991
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 17 11 1704.62 -4.82 11.34 226.77 117.94 4 45 36 1104.6 -1.04 4.69
 90.00 12 16 35 5322.96 27.47 242.00 232.72 82.85 13 45 18 4723.0 26.20 233.56
 100.00 5 30 22 1468.48 -5.94 353.36 226.15 119.35 5 54 51 868.5 -1.99 346.81
 100.00 13 46 5 5034.32 28.74 220.57 232.53 81.40 15 9 59 4434.3 27.25 212.08
 110.00 6 20 25 1311.72 -8.83 339.70 224.39 123.16 6 42 17 711.7 -4.41 333.41
 110.00 15 12 31 4763.85 32.06 199.31 231.81 77.45 16 31 55 4163.9 30.00 190.70

DIFFERENTIAL CORRECTIONS

TDE -.3071 TRA -.4264 TC3 -.3793 BAU .4602
 RDE .4092 RRA .2568 RC3 1.8560 FAU .10219
 FDE-1.7942 FRA -.4553 FC3-4.8687 BSP 5580
 BOE .5116 BRA .4977 BC3 1.8943 FSP -1315

MID-COURSE EXECUTION ACCURACY

SGT 791.9 SGR 1712.9 SG3 418.4
 RRT -.7009 RRF -.9791 RTF .7077
 SGB 1887.1 R23 .0734 R13 -.9768
 SG1 1809.8 SG2 534.6 TMA 109.75

ORBIT DETERMINATION ACCURACY

ST 449.6 SR 562.4 SS 905.0
 CRT -.9752 CRS .9930 CST -.9462
 LSA 1148.6 MSA 133.5 SSA 20.7
 EL1 715.8 EL2 78.3 ALF 128.49

LAUNCH DATE FEB 14 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 312.520

RL 147.75 LAL .00 LOL 145.13 VL 27.945 GAL -6.02 AZL 93.01 MCA 143.24 SMA 130.68 ECC .16699 INC 3.0095 V1 30.156
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.710 GAP -.55 AZP 87.59 TAL 212.90 TAP 356.14 RCA 108.85 APO 152.50 V2 34.802
 RC 88.877 GL -19.78 GP 51.32 ZAL 139.32 ZAP 84.13 ETS 356.03 ZAE 129.00 ETE 93.84 ZAC 97.66 ETC 149.02 CLP -80.59

PLANETOCENTRIC CONIC

C3 18.587 VHL 4.311 DLA -17.53 RAL 9.43 RAD 6567.8 VEL 11.831 PTH 2.10 VHP 4.453 DPA 53.27 RAP 356.09 ECC 1.3059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 16 1618.15 -2.04 6.50 229.11 118.25 5 14 14 1018.1 1.75 359.87
 90.00 11 59 2 5420.00 28.10 249.03 235.76 86.32 13 29 22 4820.0 27.29 240.45
 100.00 5 58 25 1388.58 -3.26 348.95 228.44 119.73 6 21 33 788.6 .72 342.42
 100.00 13 30 34 5124.79 29.48 227.19 235.64 84.81 14 55 59 4524.8 28.45 218.54
 110.00 6 44 16 1244.94 -6.33 336.15 226.53 123.66 7 5 1 644.9 -1.86 329.91
 110.00 15 1 13 4841.20 33.06 205.12 235.11 80.76 16 21 54 4241.2 31.43 196.27

DIFFERENTIAL CORRECTIONS

TDE -.4061 TRA -.4468 TC3 -.5868 BAU .4954
 RDE .5196 RRA .2222 RC3 1.9055 FAU .09605
 FDE-1.8788 FRA -.3397 FC3-4.4737 BSP 6134
 BOE .6595 BRA .4990 BC3 1.9938 FSP -1264

MID-COURSE EXECUTION ACCURACY

SGT 967.0 SGR 1808.9 SG3 399.1
 RRT -.7985 RRF -.9823 RTF .8046
 SGB 2051.2 R23 .0890 R13 -.9789
 SGI 1981.1 SG2 531.5 THA 115.04

ORBIT DETERMINATION ACCURACY

ST 571.3 SR 698.5 SS 963.3
 CRT -.9792 CRS .9968 CST -.9619
 LSA 1312.9 MSA 135.4 SSA 17.4
 EL1 897.9 EL2 90.1 ALF 129.16

LAUNCH DATE FEB 14 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 318.806

RL 147.75 LAL .00 LOL 145.13 VL 27.940 GAL -5.94 AZL 93.54 MCA 146.39 SMA 130.64 ECC .16640 INC 3.5362 V1 30.156
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.702 GAP -.15 AZP 87.05 TAL 212.55 TAP 358.94 RCA 108.90 APO 152.38 V2 34.797
 RC 91.256 GL -23.01 GP 54.08 ZAL 137.48 ZAP 87.79 ETS .37 ZAE 125.92 ETE 98.98 ZAC 94.89 ETC 150.84 CLP -86.23

PLANETOCENTRIC CONIC

C3 19.224 VHL 4.385 DLA -20.26 RAL 11.31 RAD 6567.8 VEL 11.858 PTH 2.10 VHP 4.641 DPA 54.35 RAP 351.09 ECC 1.3164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 10 1516.08 1.25 .80 232.24 118.29 5 49 26 916.1 5.02 354.15
 90.00 11 37 7 5537.95 28.31 257.64 239.38 90.63 13 9 25 4938.0 28.10 248.99
 100.00 6 32 23 1295.94 -.12 343.86 231.48 119.89 6 53 59 695.9 3.86 337.33
 100.00 13 11 36 5233.33 29.88 235.23 239.37 89.02 14 38 49 4633.3 29.42 226.45
 110.00 7 12 35 1169.96 -3.48 332.21 229.38 124.03 7 32 5 570.0 1.01 326.00
 110.00 14 47 53 4932.07 33.84 212.10 239.12 84.82 16 10 5 4332.1 32.75 203.03

DIFFERENTIAL CORRECTIONS

TDE -.5339 TRA -.4578 TC3 -.7848 BAU .5297
 RDE .6394 RRA .1719 RC3 1.9060 FAU .08805
 FDE-1.9322 FRA -.2089 FC3-3.9654 BSP 6679
 BOE .8330 BRA .4891 BC3 2.0612 FSP -1181

MID-COURSE EXECUTION ACCURACY

SGT 1169.3 SGR 1883.8 SG3 372.1
 RRT -.8562 RRF -.9849 RTF .8618
 SGB 2217.2 R23 .1024 R13 -.9802
 SGI 2153.3 SG2 528.6 THA 119.98

ORBIT DETERMINATION ACCURACY

ST 723.8 SR 840.1 SS 1013.9
 CRT -.9831 CRS .9985 CST -.9729
 LSA 1496.1 MSA 138.4 SSA 14.5
 EL1 1104.3 EL2 100.9 ALF 130.67

LAUNCH DATE FEB 14 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 325.065

RL 147.75 LAL .00 LOL 145.13 VL 27.931 GAL -5.86 AZL 94.16 MCA 149.54 SMA 130.58 ECC .16592 INC 4.1577 V1 30.156
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.691 GAP .23 AZP 86.41 TAL 212.10 TAP 1.64 RCA 108.91 APO 152.24 V2 34.793
 RC 93.644 GL -26.64 GP 56.88 ZAL 135.21 ZAP 91.01 ETS 5.00 ZAE 122.63 ETE 103.78 ZAC 92.23 ETC 152.79 CLP -91.86

PLANETOCENTRIC CONIC

C3 20.190 VHL 4.493 DLA -23.29 RAL 13.55 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 4.897 DPA 55.42 RAP 345.97 ECC 1.3323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 4 1387.35 5.38 353.60 236.50 117.84 6 35 11 787.4 9.06 346.86
 90.00 11 7 8 5689.94 27.70 268.71 243.56 96.14 12 41 58 5089.9 28.26 260.09
 100.00 7 15 19 1183.18 3.70 337.67 235.58 119.68 7 35 3 583.2 7.62 331.08
 100.00 12 46 33 5369.35 29.61 245.33 243.76 94.32 14 16 3 4769.4 29.89 236.53
 110.00 7 47 3 1083.71 -.19 327.71 233.15 124.18 8 5 6 483.7 4.30 321.50
 110.00 14 31 19 5041.59 34.18 220.63 243.96 89.85 15 55 21 4441.6 33.78 211.41

DIFFERENTIAL CORRECTIONS

TDE -.6972 TRA -.4543 TC3 -.9571 BAU .5635
 RDE .7733 RRA .1075 RC3 1.8552 FAU .07891
 FDE-1.9613 FRA -.0778 FC3-3.3837 BSP 7259
 BOE 1.0412 BRA .4669 BC3 2.0876 FSP -1086

MID-COURSE EXECUTION ACCURACY

SGT 1388.6 SGR 1942.7 SG3 340.3
 RRT -.8915 RRF -.9870 RTF .8973
 SGB 2388.0 R23 .1130 R13 -.9812
 SGI 2329.6 SG2 524.6 THA 124.50

ORBIT DETERMINATION ACCURACY

ST 909.4 SR 988.4 SS 1059.0
 CRT -.9863 CRS .9994 CST -.9807
 LSA 1704.4 MSA 141.8 SSA 11.9
 EL1 1338.5 EL2 110.7 ALF 132.58

LAUNCH DATE FEB 14 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 331.296

RL 147.75 LAL .00 LOL 145.13 VL 27.918 GAL -5.76 AZL 94.91 MCA 152.68 SMA 130.49 ECC .16554 INC 4.9072 V1 30.156
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.679 GAP .60 AZP 85.64 TAL 211.57 TAP 4.25 RCA 108.88 APO 152.09 V2 34.789
 RC 96.038 GL -30.71 GP 59.80 ZAL 132.45 ZAP 93.75 ETS 9.95 ZAE 119.13 ETE 108.30 ZAC 89.67 ETC 154.88 CLP -97.47

PLANETOCENTRIC CONIC

C3 21.654 VHL 4.653 DLA -26.62 RAL 16.24 RAD 6567.9 VEL 11.960 PTH 2.13 VHP 5.241 DPA 56.53 RAP 340.64 ECC 1.3564
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 32 1192.49 11.42 342.46 242.72 116.09 7 44 24 592.5 14.83 335.45
 90.00 10 16 8 630.36 24.99 306.96 247.89 103.78 10 26 39 30.4 26.64 298.68
 100.00 8 14 47 1030.15 8.79 329.16 241.34 118.69 8 31 58 430.2 12.55 322.39
 100.00 12 8 34 5555.96 27.88 258.91 248.60 101.26 13 41 10 4956.0 29.14 250.34
 110.00 8 30 40 980.31 3.76 322.31 238.26 124.00 8 47 0 380.3 8.20 316.03
 110.00 14 9 11 5178.57 33.69 231.29 249.64 96.13 15 35 29 4578.6 34.18 222.08

DIFFERENTIAL CORRECTIONS

TDE -.9070 TRA -.4301 TC3-1.0871 BAU .5937
 RDE .9204 RRA .0234 RC3 1.7389 FAU .06868
 FDE-1.9599 FRA .0544 FC3-2.7461 BSP 7808
 BOE 1.2922 BRA .4307 BC3 2.0507 FSP -970

MID-COURSE EXECUTION ACCURACY

SGT 1619.1 SGR 1975.9 SG3 303.8
 RRT -.9133 RRF -.9887 RTF .9199
 SGB 2554.6 R23 .1225 R13 -.9819
 SGI 2500.9 SG2 521.0 THA 128.81

ORBIT DETERMINATION ACCURACY

ST 1131.2 SR 1134.4 SS 1093.3
 CRT -.9888 CRS .9998 CST -.9861
 LSA 1934.0 MSA 145.7 SSA 9.6
 EL1 1597.5 EL2 120.1 ALF 134.92

LAUNCH DATE FEB 14 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 337.499

RL 147.75 LAL .00 LOL 145.13 VL 27.902 GAL -5.66 AZL 95.83 MCA 155.81 SMA 130.37 ECC .16524 INC 5.8344 VI 30.156
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.664 GAP .96 AZP 84.67 TAL 210.96 TAP 6.77 RCA 108.83 APO 151.91 V2 34.787
 RC 98.436 GL -35.26 GP 62.89 ZAL 129.16 ZAP 95.93 ETS 15.26 ZAE 115.41 ETE 112.64 ZAC 87.19 ETC 157.19 CLP-103.11

PLANETOCENTRIC CONIC

C3 23.909 VHL 4.890 DLA -30.28 RAL 19.49 RAD 6568.0 VEL 12.054 PTH 2.15 VHP 5.698 DPA 57.70 RAP 334.93 ECC 1.3935
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.79 7 32 47 1227.08 19.78 348.99 251.46 113.41 7 53 14 627.1 22.77 341.45
 101.21 10 33 47 643.95 19.79 306.06 251.47 113.40 10 44 31 43.9 22.79 298.52
 78.79 7 32 47 1227.08 19.78 348.99 251.46 113.41 7 53 14 627.1 22.77 341.45
 101.21 10 33 47 643.95 19.79 306.06 251.47 113.40 10 44 31 43.9 22.79 298.52
 110.00 9 30 22 843.88 8.90 315.09 245.44 123.14 9 44 26 243.9 13.21 308.64
 110.00 13 35 22 5363.18 31.47 245.21 255.86 104.08 15 4 46 4763.2 33.09 236.36

DIFFERENTIAL CORRECTIONS

TOE-1.1800 TRA -.3767 TC3-1.1571 BAU .6207
 RDE 1.0858 RRA -.0796 RC3 1.5594 FAU .05811
 FDE-1.9348 FRA .1751 FC3-2.1042 BSP 8392
 BDE 1.6036 BRA .3851 BC3 1.9418 FSP -851

MID-COURSE EXECUTION ACCURACY

SGT 1858.4 SGR 1989.0 SG3 265.3
 RRT -.9278 RRF -.9902 RTF .9360
 SGB 2722.1 R23 .1293 R13 -.9828
 SG1 2672.8 SG2 515.8 THA 132.91

ORBIT DETERMINATION ACCURACY

ST 1391.6 SR 1273.5 SS 1117.1
 CRT -.9907 CRS .9999 CST -.9900
 LSA 2187.3 MSA 149.1 SSA 7.6
 EL1 1882.1 EL2 128.0 ALF 137.56

LAUNCH DATE FEB 14 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 343.672

RL 147.75 LAL .00 LOL 145.13 VL 27.883 GAL -5.54 AZL 97.02 MCA 158.94 SMA 130.23 ECC .16502 INC 7.0188 VI 30.156
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.648 GAP 1.30 AZP 83.45 TAL 210.26 TAP 9.20 RCA 108.74 APO 151.73 V2 34.785
 RC 100.837 GL -40.31 GP 66.23 ZAL 125.30 ZAP 97.51 ETS 21.07 ZAE 111.43 ETE 117.03 ZAC 84.74 ETC 159.86 CLP-108.93

PLANETOCENTRIC CONIC

C3 27.485 VHL 5.243 DLA -34.23 RAL 23.44 RAD 6568.1 VEL 12.201 PTH 2.19 VHP 6.316 DPA 58.92 RAP 328.61 ECC 1.4523
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.92 6 48 53 1447.65 21.10 6.47 258.86 117.59 7 13 1 847.6 24.63 359.09
 110.08 11 49 11 5780.26 21.12 273.09 258.86 117.58 13 25 31 5180.3 24.64 265.71
 69.92 6 48 53 1447.65 21.10 6.47 258.86 117.59 7 13 1 847.6 24.63 359.09
 110.08 11 49 11 5780.26 21.12 273.09 258.86 117.58 13 25 31 5180.3 24.64 265.71
 69.92 6 48 53 1447.65 21.10 6.47 258.86 117.59 7 13 1 847.6 24.63 359.09
 110.08 11 49 11 5780.26 21.12 273.09 258.86 117.58 13 25 31 5180.3 24.64 265.71

DIFFERENTIAL CORRECTIONS

TOE-1.5428 TRA -.2786 TC3-1.1481 BAU .6397
 RDE 1.2643 RRA -.2103 RC3 1.3086 FAU .04726
 FDE-1.8811 FRA .2868 FC3-1.4886 BSP 8909
 BDE 1.9947 BRA .3491 BC3 1.7409 FSP -720

MID-COURSE EXECUTION ACCURACY

SGT 2104.2 SGR 1967.1 SG3 225.4
 RRT -.9372 RRF -.9914 RTF .9483
 SGB 2880.4 R23 .1341 R13 -.9838
 SG1 2835.1 SG2 509.2 THA 137.06

ORBIT DETERMINATION ACCURACY

ST 1690.1 SR 1384.9 SS 1123.8
 CRT -.9921 CRS 1.0000 CST -.9927
 LSA 2452.4 MSA 151.9 SSA 5.9
 EL1 2180.9 EL2 134.8 ALF 140.71

LAUNCH DATE FEB 14 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 349.812

RL 147.75 LAL .00 LOL 145.13 VL 27.861 GAL -5.41 AZL 98.59 MCA 162.06 SMA 130.08 ECC .16486 INC 8.5942 VI 30.156
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.631 GAP 1.63 AZP 81.82 TAL 209.48 TAP 11.54 RCA 108.63 APO 151.52 V2 34.784
 RC 103.240 GL -45.81 GP 69.94 ZAL 120.86 ZAP 98.44 ETS 27.71 ZAE 107.12 ETE 121.88 ZAC 82.23 ETC 163.31 CLP-115.33

PLANETOCENTRIC CONIC

C3 33.417 VHL 5.781 DLA -38.35 RAL 28.27 RAD 6568.3 VEL 12.441 PTH 2.25 VHP 7.173 DPA 60.10 RAP 321.29 ECC 1.5500
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.98 6 30 29 1608.64 21.64 19.71 268.16 122.47 6 57 18 1008.6 25.76 12.64
 117.02 12 46 9 5717.27 21.65 268.38 268.17 122.46 14 21 26 5117.3 25.77 261.30
 62.98 6 30 29 1608.64 21.64 19.71 268.16 122.47 6 57 18 1008.6 25.76 12.64
 117.02 12 46 9 5717.27 21.65 268.38 268.17 122.46 14 21 26 5117.3 25.77 261.30
 62.98 6 30 29 1608.64 21.64 19.71 268.16 122.47 6 57 18 1008.6 25.76 12.64
 117.02 12 46 9 5717.27 21.65 268.38 268.17 122.46 14 21 26 5117.3 25.77 261.30

DIFFERENTIAL CORRECTIONS

TOE-2.0439 TRA -.1114 TC3-1.0509 BAU .6486
 RDE 1.4472 RRA -.3689 RC3 1.0018 FAU .03677
 FDE-1.8066 FRA .3812 FC3 -.9527 BSP 9451
 BDE 2.5043 BRA .3853 BC3 1.4519 FSP -596

MID-COURSE EXECUTION ACCURACY

SGT 2366.4 SGR 1901.6 SG3 186.3
 RRT -.9438 RRF -.9920 RTF .9597
 SGB 3035.8 R23 .1338 R13 -.9855
 SG1 2994.9 SG2 496.4 THA 141.57

ORBIT DETERMINATION ACCURACY

ST 2026.5 SR 1441.6 SS 1113.5
 CRT -.9930 CRS .9998 CST -.9949
 LSA 2720.6 MSA 152.2 SSA 4.5
 EL1 2483.1 EL2 138.7 ALF 144.64

LAUNCH DATE FEB 14 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 355.913

RL 147.75 LAL .00 LOL 145.13 VL 27.837 GAL -5.27 AZL 100.80 MCA 165.16 SMA 129.91 ECC .16475 INC 10.8043 VI 30.156
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.613 GAP 1.94 AZP 79.55 TAL 208.62 TAP 13.78 RCA 108.50 APO 151.31 V2 34.783
 RC 105.643 GL -51.61 GP 74.11 ZAL 115.89 ZAP 98.67 ETS 36.06 ZAE 102.34 ETE 128.16 ZAC 79.51 ETC 168.47 CLP-123.39

PLANETOCENTRIC CONIC

C3 43.943 VHL 6.629 DLA -42.41 RAL 34.20 RAD 6568.7 VEL 12.857 PTH 2.34 VHP 8.420 DPA 61.08 RAP 312.49 ECC 1.7232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.01 6 27 6 1753.70 20.79 31.41 279.62 127.83 6 56 20 1153.7 25.55 24.83
 122.99 13 36 51 5710.48 20.81 267.16 279.63 127.82 15 12 1 5110.5 25.57 260.58
 57.01 6 27 6 1753.70 20.79 31.41 279.62 127.83 6 56 20 1153.7 25.55 24.83
 122.99 13 36 51 5710.48 20.81 267.16 279.63 127.82 15 12 1 5110.5 25.57 260.58
 57.01 6 27 6 1753.70 20.79 31.41 279.62 127.83 6 56 20 1153.7 25.55 24.83
 122.99 13 36 51 5710.48 20.81 267.16 279.63 127.82 15 12 1 5110.5 25.57 260.58

DIFFERENTIAL CORRECTIONS

TOE-2.7709 TRA -.1823 TC3 -.8627 BAU .6358
 RDE 1.5712 RRA -.5575 RC3 .6535 FAU .02674
 FDE-1.7125 FRA .4642 FC3 -.5267 BSP 9919
 BDE 3.1854 BRA .5865 BC3 1.0823 FSP -473

MID-COURSE EXECUTION ACCURACY

SGT 2662.6 SGR 1738.1 SG3 149.0
 RRT -.9470 RRF -.9908 RTF .9712
 SGB 3179.7 R23 .1275 R13 -.9879
 SG1 3144.4 SG2 472.6 THA 147.45

ORBIT DETERMINATION ACCURACY

ST 2396.1 SR 1372.3 SS 1083.4
 CRT -.9932 CRS .9994 CST -.9966
 LSA 2962.4 MSA 149.0 SSA 3.4
 EL1 2757.7 EL2 138.6 ALF 150.28

LAUNCH DATE FEB 14 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.810 GAL -5.11 AZL 104.14 HCA 168.23 SMA 129.72 ECC .16466 INC14.1419 V1 30.156
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.593 GAP 2.23 AZP 76.14 TAL 207.66 TAP 15.89 RCA 108.36 APO 151.08 V2 34.783
 RC 108.045 GL -57.36 GP 78.76 ZAL 110.52 ZAP 98.18 ETS 48.73 ZAE 96.83 ETE 138.65 ZAC 76.35 ETC 178.14 CLP-136.83

DISTANCE 361.959

PLANETOCENTRIC CONIC
 C3 64.587 VHL 8.037 DLA -45.93 RAL 41.37 RAD 6569.2 VEL 13.636 PTH 2.49 VHP 10.357 DPA 61.44 RAP 301.64 ECC 2.0629
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.19 6 36 55 1898.53 17.87 41.90 293.17 133.05 7 8 33 1298.5 23.23 35.96
 127.81 14 24 15 5755.94 17.89 268.64 293.18 133.05 16 0 11 5155.9 23.24 262.70
 52.19 6 36 55 1898.53 17.87 41.90 293.17 133.05 7 8 33 1298.5 23.23 35.96
 127.81 14 24 15 5755.94 17.89 268.64 293.18 133.05 16 0 11 5155.9 23.24 262.70
 52.19 6 36 55 1898.53 17.87 41.90 293.17 133.05 7 8 33 1298.5 23.23 35.96
 127.81 14 24 15 5755.94 17.89 268.64 293.18 133.05 16 0 11 5155.9 23.24 262.70

DIFFERENTIAL CORRECTIONS
 TDE-3.9041 TRA .7344 TC3 -.5998 BAU .5810
 RDE 1.3752 RRA -.7114 RC3 .3051 FAU .01748
 FDE-1.6179 FRA .5417 FC3 -.2343 BSP 10381
 BDE 4.1393 BRA 1.0225 BC3 .6729 FSP -366

MID-COURSE EXECUTION ACCURACY
 SGT 3040.3 SGR 1316.6 SG3 115.3
 RRT -.9370 RRF -.9793 RTF .9839
 SGB 3313.2 R23 .1114 R13 -.9913
 SG1 3285.7 SG2 425.7 THA 157.52

ORBIT DETERMINATION ACCURACY
 ST 2792.7 SR 1004.7 SS 1042.9
 CRT -.9904 CRS .9971 CST -.9980
 LSA 3142.8 MSA 138.6 SSA 2.4
 EL1 2965.0 EL2 130.8 ALF 160.35

LAUNCH DATE FEB 14 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.781 GAL -4.93 AZL 109.75 HCA 171.23 SMA 129.51 ECC .16454 INC19.7545 V1 30.156
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.573 GAP 2.49 AZP 76.14 TAL 206.59 TAP 17.82 RCA 108.20 APO 150.82 V2 34.784
 RC 110.446 GL -62.22 GP 82.99 ZAL 104.95 ZAP 96.96 ETS 75.49 ZAE 90.03 ETE 163.22 ZAC 72.22 ETC 202.29 CLP-172.81

DISTANCE 367.918

PLANETOCENTRIC CONIC
 C3 111.804 VHL 10.574 DLA -48.05 RAL 49.57 RAD 6570.1 VEL 15.269 PTH 2.74 VHP 13.685 DPA 60.33 RAP 288.35 ECC 2.8400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.41 6 59 45 2046.34 12.49 50.45 308.06 136.79 7 33 51 1446.3 18.25 45.11
 130.59 15 6 47 5854.29 12.51 272.47 308.08 136.78 16 44 21 5254.3 18.27 267.13
 49.41 6 59 45 2046.34 12.49 50.45 308.06 136.79 7 33 51 1446.3 18.25 45.11
 130.59 15 6 47 5854.29 12.51 272.47 308.08 136.78 16 44 21 5254.3 18.27 267.13
 49.41 6 59 45 2046.34 12.49 50.45 308.06 136.79 7 33 51 1446.3 18.25 45.11
 130.59 15 6 47 5854.29 12.51 272.47 308.08 136.78 16 44 21 5254.3 18.27 267.13

DIFFERENTIAL CORRECTIONS
 TDE-5.5259 TRA 1.8387 TC3 -.2785 BAU .4181
 RDE -.6432 RRA -.3220 RC3 .0264 FAU .00850
 FDE-1.5632 FRA .6472 FC3 -.0658 BSP 10732
 BDE 5.5632 BRA 1.8667 BC3 .2797 FSP -275

MID-COURSE EXECUTION ACCURACY
 SGT 3396.1 SGR 439.0 SG3 86.9
 RRT .4170 RRF .3408 RTF .9952
 SGB 3424.4 R23 -.0880 R13 .9946
 SG1 3401.1 SG2 398.4 THA 3.13

ORBIT DETERMINATION ACCURACY
 ST 3027.5 SR 357.2 SS 1018.7
 CRT .9326 CRS -.9192 CST -.9994
 LSA 3211.5 MSA 133.9 SSA 1.9
 EL1 3045.8 EL2 128.2 ALF 6.29

LAUNCH DATE FEB 14 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.751 GAL -4.71 AZL 120.88 HCA 174.07 SMA 129.30 ECC .16421 INC30.8847 V1 30.156
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.552 GAP 2.70 AZP 59.25 TAL 205.30 TAP 19.37 RCA 108.07 APO 150.53 V2 34.786
 RC 112.844 GL -63.98 GP 79.92 ZAL 99.54 ZAP 95.09 ETS 131.62 ZAE 80.41 ETE 217.24 ZAC 65.74 ETC 256.86 CLP 120.50

DISTANCE 373.684

PLANETOCENTRIC CONIC
 C3 249.597 VHL 15.799 DLA -46.84 RAL 57.43 RAD 6571.5 VEL 19.259 PTH 3.09 VHP 20.333 DPA 55.78 RAP 272.85 ECC 5.1077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.98 7 36 37 2169.64 5.52 54.84 322.22 136.59 8 12 47 1569.6 11.30 49.67
 129.02 15 32 39 716.94 5.54 301.59 322.23 136.59 15 44 36 116.9 11.31 296.41
 50.98 7 36 37 2169.64 5.52 54.84 322.22 136.59 8 12 47 1569.6 11.30 49.67
 129.02 15 32 39 716.94 5.54 301.59 322.23 136.59 15 44 36 116.9 11.31 296.41
 50.98 7 36 37 2169.64 5.52 54.84 322.22 136.59 8 12 47 1569.6 11.30 49.67
 129.02 15 32 39 716.94 5.54 301.59 322.23 136.59 15 44 36 116.9 11.31 296.41

DIFFERENTIAL CORRECTIONS
 TDE-2.5214 TRA 2.4796 TC3 -.0156 BAU .1774
 RDE-7.5307 RRA 2.6966 RC3 .0508 FAU-.00315
 FDE-1.6641 FRA .8828 FC3 .0109 BSP 10789
 BDE 7.9416 BRA 3.6633 BC3 .0532 FSP -208

MID-COURSE EXECUTION ACCURACY
 SGT 1602.2 SGR 3086.9 SG3 66.1
 RRT .9834 RRF .9843 RTF .9515
 SGB 3478.0 R23 -.0800 R13 .9965
 SG1 3410.9 SG2 679.5 THA 64.27

ORBIT DETERMINATION ACCURACY
 ST 995.8 SR 2764.6 SS 1088.6
 CRT .9685 CRS -.9973 CST -.9841
 LSA 3124.6 MSA 238.3 SSA .9
 EL1 2929.2 EL2 233.9 ALF 70.64

LAUNCH DATE FEB 14 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.718 GAL -4.36 AZL 148.27 HCA 176.33 SMA 129.08 ECC .16303 INC58.2714 V1 30.156
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.530 GAP 2.73 AZP 31.78 TAL 203.42 TAP 19.75 RCA 108.03 APO 150.12 V2 34.789
 RC 115.239 GL -56.08 GP 63.80 ZAL 94.95 ZAP 92.93 ETS 166.43 ZAE 62.98 ETE 249.74 ZAC 52.65 ETC 294.09 CLP 96.65

DISTANCE 378.826

PLANETOCENTRIC CONIC
 C3 802.546 VHL 28.329 DLA -36.94 RAL 61.12 RAD 6572.8 VEL 30.395 PTH 3.46 VHP 36.019 DPA 42.20 RAP 256.76 ECC14.2079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.22 8 52 53 2106.48 .19 44.62 330.85 126.94 9 27 59 1506.5 4.99 38.63
 114.78 14 45 51 993.22 .21 320.80 330.86 126.94 15 2 24 393.2 5.01 314.81
 65.22 8 52 53 2106.48 .19 44.62 330.85 126.94 9 27 59 1506.5 4.99 38.63
 114.78 14 45 51 993.22 .21 320.80 330.86 126.94 15 2 24 393.2 5.01 314.81
 65.22 8 52 53 2106.48 .19 44.62 330.85 126.94 9 27 59 1506.5 4.99 38.63
 114.78 14 45 51 993.22 .21 320.80 330.86 126.94 15 2 24 393.2 5.01 314.81

DIFFERENTIAL CORRECTIONS
 TDE 3.5289 TRA .8530 TC3 -.0499 BAU 2.1681
 RDE-11.1667 RRA 7.7435 RC3 .1958 FAU-.03468
 FDE-2.1381 FRA 1.6111 FC3 .0374 BSP 9884
 BDE11.7110 BRA 7.7903 BC3 .2021 FSP -169

MID-COURSE EXECUTION ACCURACY
 SGT 797.4 SGR 3189.2 SG3 54.5
 RRT -.5908 RRF .9992 RTF -.5576
 SGB 3287.4 R23 -.0709 R13 .9975
 SG1 3225.2 SG2 636.2 THA 98.75

ORBIT DETERMINATION ACCURACY
 ST 716.7 SR 2333.9 SS 1398.6
 CRT -.9410 CRS -.9998 CST .9337
 LSA 2803.5 MSA 240.2 SSA .4
 EL1 2430.4 EL2 232.8 ALF 106.27

LAUNCH DATE FEB 14 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 28 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.685 GAL -5.02 AZL 21.15 HCA 183.42 SMA 128.84 ECC .17036 INC68.8544 V1 30.156
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.508 GAP 4.15 AZP 158.82 TAL 205.88 TAP 29.30 RCA 106.89 APO 150.79 V2 34.792
 RC 117.630 GL 51.59 GP -59.04 ZAL 94.82 ZAP 93.95 ETS 180.31 ZAE 61.45 ETE 99.06 ZAC 75.29 ETC 62.35 CLP 97.69

PLANETOCENTRIC CONIC
 C31077.470 VHL 32.825 DLA 64.25 RAL 14.32 RAD 6573.0 VEL 34.623 PTH 3.51 VHP 40.350 DPA -73.49 RAP 195.43 ECC18.7324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.57 15 41 50 5063.34 .57 243.51 284.61 25.75 17 6 14 4463.3 -6.63 240.44
 150.43 1 43 32 3353.07 .58 100.79 284.59 25.75 2 39 25 2753.1 -6.62 97.72
 29.57 15 41 50 5063.34 .57 243.51 284.61 25.75 17 6 14 4463.3 -6.63 240.44
 150.43 1 43 32 3353.07 .58 100.79 284.59 25.75 2 39 25 2753.1 -6.62 97.72
 29.57 15 41 50 5063.34 .57 243.51 284.61 25.75 17 6 14 4463.3 -6.63 240.44
 150.43 1 43 32 3353.07 .58 100.79 284.59 25.75 2 39 25 2753.1 -6.62 97.72

DIFFERENTIAL CORRECTIONS
 TOE 3.7441 TRA 1.9101 TC3 -.0949 BAU 3.2169 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE-15.3952 RRA 1.6890 RC3 -.2022 FAU-.04948 SGT 1185.0 SGR 3073.0 SG3 54.0 ST 693.2 SR 2695.2 SS 1925.5
 FDE 3.1552 FRA -.3395 FC3 .0398 BSP 10122 RRT .8524 RRF -.9999 RTF -.8475 CRT .9655 CRS 1.0000 CST .9651
 BOE15.8439 BRA 2.5498 BC3 .2233 FSP -176 SGB 3293.5 R23 -.0708 R13 -.9974 LSA 3379.5 MSA 177.2 SSA .9
 SGI 3240.7 SG2 587.6 THA 71.16 EL1 2777.4 EL2 175.1 ALF 76.00

LAUNCH DATE FEB 14 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUN 30 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.650 GAL -4.60 AZL 53.52 HCA 185.47 SMA 128.60 ECC .16871 INC36.4796 V1 30.156
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.486 GAP 4.11 AZP 126.35 TAL 203.79 TAP 29.25 RCA 106.90 APO 150.29 V2 34.796
 RC 120.015 GL 62.88 GP -76.70 ZAL 97.98 ZAP 97.13 ETS 197.06 ZAE 81.35 ETE 115.18 ZAC 91.01 ETC 81.72 CLP 122.67

PLANETOCENTRIC CONIC
 C3 338.921 VHL 18.410 DLA 67.93 RAL 344.55 RAD 6571.9 VEL 21.453 PTH 3.21 VHP 22.239 DPA -78.74 RAP 103.97 ECC 6.5778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.26 13 33 18 4994.42 -4.68 244.07 252.66 22.15 14 56 33 4394.4 -12.08 241.41
 154.74 23 50 34 3255.00 -4.67 96.58 252.64 22.15 24 44 49 2655.0 -12.07 93.92
 25.26 13 33 18 4994.42 -4.68 244.07 252.66 22.15 14 56 33 4394.4 -12.08 241.41
 154.74 23 50 34 3255.00 -4.67 96.58 252.64 22.15 24 44 49 2655.0 -12.07 93.92
 25.26 13 33 18 4994.42 -4.68 244.07 252.66 22.15 14 56 33 4394.4 -12.08 241.41
 154.74 23 50 34 3255.00 -4.67 96.58 252.64 22.15 24 44 49 2655.0 -12.07 93.92

DIFFERENTIAL CORRECTIONS
 TOE 1.7347 TRA .6089 TC3 -.0288 BAU .5797 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE-7.5166 RRA 3.4092 RC3 -.1247 FAU-.00617 SGT 746.4 SGR 3695.6 SG3 65.7 ST 560.7 SR 2488.1 SS 1059.1
 FDE 1.6911 FRA -.6589 FC3 .0158 BSP 11575 RRT .0761 RRF -.9960 RTF .0048 CRT -.8134 CRS .9989 CST -.8392
 BOE 7.7141 BRA 3.4631 BC3 .1279 FSP -210 SGB 3770.3 R23 -.0841 R13 -.9958 LSA 2742.8 MSA 321.4 SSA 1.6
 SGI 3696.1 SG2 744.1 THA 89.08 EL1 2530.2 EL2 320.7 ALF 100.56

LAUNCH DATE FEB 14 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 2 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.613 GAL -4.33 AZL 66.38 HCA 188.25 SMA 128.35 ECC .16855 INC23.6220 V1 30.156
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.463 GAP 4.28 AZP 113.40 TAL 202.28 TAP 30.53 RCA 106.72 APO 149.98 V2 34.800
 RC 122.394 GL 63.55 GP -78.59 ZAL 101.34 ZAP 101.34 ETS 255.74 ZAE 92.02 ETE 173.49 ZAC 98.54 ETC 141.19 CLP 173.87

PLANETOCENTRIC CONIC
 C3 151.870 VHL 12.324 DLA 65.12 RAL 337.89 RAD 6570.7 VEL 16.529 PTH 2.88 VHP 14.646 DPA -71.04 RAP 70.51 ECC 3.4994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.55 13 14 8 4868.08 -11.69 239.13 242.39 25.45 14 35 17 4268.1 -18.89 235.93
 151.45 23 16 36 3150.42 -11.68 95.26 242.37 25.45 24 9 6 2550.4 -18.88 92.06
 28.55 13 14 8 4868.08 -11.69 239.13 242.39 25.45 14 35 17 4268.1 -18.89 235.93
 151.45 23 16 36 3150.42 -11.68 95.26 242.37 25.45 24 9 6 2550.4 -18.88 92.06
 28.55 13 14 8 4868.08 -11.69 239.13 242.39 25.45 14 35 17 4268.1 -18.89 235.93
 151.45 23 16 36 3150.42 -11.68 95.26 242.37 25.45 24 9 6 2550.4 -18.88 92.06

DIFFERENTIAL CORRECTIONS
 TOE 4.1658 TRA-2.4292 TC3 -.1137 BAU .2414 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE-1.4423 RRA 1.8348 RC3 .0347 FAU .00986 SGT 3321.7 SGR 2136.9 SG3 86.3 ST 2097.5 SR 905.3 SS 812.0
 FDE 1.2826 FRA -.7149 FC3 -.0562 BSP 12423 RRT -.9529 RRF -.9426 RTF .9983 CRT -.9419 CRS .9365 CST -.9999
 BOE 4.4084 BRA 3.0443 BC3 .1189 FSP -282 SGB 3949.7 R23 -.1166 R13 -.9919 LSA 2407.7 MSA 286.0 SSA 1.8
 SGI 3911.2 SG2 550.6 THA 147.78 EL1 2267.2 EL2 281.4 ALF 157.51

LAUNCH DATE FEB 14 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 4 1969

MELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.576 GAL -4.09 AZL 72.63 HCA 191.24 SMA 128.09 ECC .16885 INC17.3742 V1 30.156
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.441 GAP 4.49 AZP 107.06 TAL 200.91 TAP 32.15 RCA 106.47 APO 149.72 V2 34.805
 RC 124.766 GL 61.10 GP -73.18 ZAL 104.23 ZAP 105.96 ETS 290.84 ZAE 99.32 ETE 207.69 ZAC 103.21 ETC 176.45 CLP-161.85

PLANETOCENTRIC CONIC
 C3 88.012 VHL 9.381 DLA 62.02 RAL 339.53 RAD 6569.7 VEL 14.469 PTH 2.63 VHP 11.035 DPA -64.01 RAP 58.01 ECC 2.4485
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.20 13 29 17 4743.79 -17.94 233.10 239.64 29.54 14 48 21 4143.8 -24.85 229.18
 147.80 23 14 32 3054.35 -17.93 93.43 239.62 29.54 24 5 27 2454.3 -24.84 89.51
 32.20 13 29 17 4743.79 -17.94 233.10 239.64 29.54 14 48 21 4143.8 -24.85 229.18
 147.80 23 14 32 3054.35 -17.93 93.43 239.62 29.54 24 5 27 2454.3 -24.84 89.51
 32.20 13 29 17 4743.79 -17.94 233.10 239.64 29.54 14 48 21 4143.8 -24.85 229.18
 147.80 23 14 32 3054.35 -17.93 93.43 239.62 29.54 24 5 27 2454.3 -24.84 89.51

DIFFERENTIAL CORRECTIONS
 TOE 3.2486 TRA-2.6233 TC3 -.4417 BAU .5237 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE .7217 RRA .0299 RC3 -.0543 FAU .02056 SGT 4035.6 SGR 454.1 SG3 112.9 ST 2233.1 SR 440.9 SS 793.3
 FDE 1.2744 FRA -.7523 FC3 -.2022 BSP 12808 RRT .4507 RRF .5787 RTF .9863 CRT .8760 CRS -.9258 CST -.9933
 BOE 3.3278 BRA 2.6235 BC3 .4451 FSP -371 SGB 4061.1 R23 .1453 R13 .9871 LSA 2400.2 MSA 222.3 SSA 2.3
 SGI 4040.9 SG2 404.8 THA 2.93 EL1 2266.5 EL2 209.5 ALF 9.90

LAUNCH DATE FEB 14 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.538 GAL -3.86 AZL 76.25 HCA 194.30 SMA 127.84 ECC .16937 INC13.7476 V1 30.156
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.418 GAP 4.73 AZP 103.34 TAL 199.57 TAP 33.87 RCA 106.18 APO 149.49 V2 34.811
 RC 127.128 GL 57.87 GP -66.92 ZAL 106.52 ZAP 110.69 ETS 300.74 ZAE 105.03 ETE 216.12 ZAC 106.72 ETC 186.04 CLP-154.31

PLANETOCENTRIC CONIC
 C3 59.450 VHL 7.710 DLA 59.20 RAL 343.23 RAD 6569.1 VEL 13.446 PTH 2.46 VHP 9.051 DPA -57.64 RAP 50.96 ECC 1.9784
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.57 13 52 27 4636.69 -22.68 226.93 238.82 33.71 15 9 44 4036.7 -29.25 222.27
 144.43 23 20 54 2977.65 -22.66 91.34 238.80 33.70 24 10 32 2377.6 -29.24 86.68
 35.57 13 52 27 4636.69 -22.68 226.93 238.82 33.71 15 9 44 4036.7 -29.25 222.27
 144.43 23 20 54 2977.65 -22.66 91.34 238.80 33.70 24 10 32 2377.6 -29.24 86.68
 35.57 13 52 27 4636.69 -22.68 226.93 238.82 33.71 15 9 44 4036.7 -29.25 222.27
 144.43 23 20 54 2977.65 -22.66 91.34 238.80 33.70 24 10 32 2377.6 -29.24 86.68

DIFFERENTIAL CORRECTIONS
 TOE 2.6525 TRA-2.2875 TC3 -.8091 BAU .6618 SGT 4057.4 SGR 895.4 SG3 142.4 ST 2208.7 SR 734.8 SS 827.4
 RDE .9733 RRA -.2977 RC3 -.1967 FAU .02991 RRT .8913 RRF .9581 RTF .9781 CRT .9581 CRS -.9892 CST -.9897
 FDE 1.3496 FRA -.7736 FC3 -.4355 BSP 13167 SGB 4155.0 R23 .1715 R13 .9815 LSA 2460.6 MSA 219.9 SSA 3.0
 BOE 2.8254 BRA 2.3068 BC3 .8326 FSP -475 SG1 4135.9 SG2 398.2 THA 11.23 EL1 2319.1 EL2 200.5 ALF 17.82

LAUNCH DATE FEB 14 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.499 GAL -3.63 AZL 78.62 HCA 197.41 SMA 127.57 ECC .17004 INC11.3844 V1 30.156
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.396 GAP 4.97 AZP 100.88 TAL 198.21 TAP 35.62 RCA 105.88 APO 149.26 V2 34.818
 RC 129.481 GL 54.55 GP -60.96 ZAL 108.20 ZAP 115.34 ETS 304.59 ZAE 109.71 ETE 217.96 ZAC 109.65 ETC 189.20 CLP-151.87

PLANETOCENTRIC CONIC
 C3 44.223 VHL 6.650 DLA 56.70 RAL 347.37 RAD 6568.7 VEL 12.868 PTH 2.34 VHP 7.858 DPA -51.74 RAP 46.48 ECC 1.7278
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.58 14 16 54 4547.68 -26.03 221.02 238.67 37.66 15 32 41 3947.7 -32.25 215.67
 141.42 23 29 28 2919.70 -26.02 89.28 238.65 37.66 24 18 7 2319.7 -32.24 83.93
 38.58 14 16 54 4547.68 -26.03 221.02 238.67 37.66 15 32 41 3947.7 -32.25 215.67
 141.42 23 29 28 2919.70 -26.02 89.28 238.65 37.66 24 18 7 2319.7 -32.24 83.93
 38.58 14 16 54 4547.68 -26.03 221.02 238.67 37.66 15 32 41 3947.7 -32.25 215.67
 141.42 23 29 28 2919.70 -26.02 89.28 238.65 37.66 24 18 7 2319.7 -32.24 83.93

DIFFERENTIAL CORRECTIONS
 TOE 2.4396 TRA-1.9533 TC3-1.1381 BAU .6926 SGT 4013.3 SGR 1008.6 SG3 165.8 ST 2294.8 SR 842.8 SS 898.7
 RDE .9665 RRA -.2759 RC3 -.2776 FAU .03514 RRT .8984 RRF .9713 RTF .9662 CRT .9670 CRS -.9953 CST -.9871
 FDE 1.4876 FRA -.6993 FC3 -.6879 BSP 11263 SGB 4138.1 R23 .2117 R13 .9716 LSA 2594.4 MSA 230.5 SSA 3.7
 BOE 2.6241 BRA 1.9727 BC3 1.1715 FSP -441 SG1 4115.5 SG2 431.8 THA 12.87 EL1 2436.3 EL2 202.3 ALF 19.69

LAUNCH DATE FEB 14 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.459 GAL -3.39 AZL 80.28 HCA 200.53 SMA 127.31 ECC .17086 INC 9.7187 V1 30.156
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.373 GAP 5.22 AZP 99.11 TAL 196.86 TAP 37.39 RCA 105.55 APO 149.06 V2 34.825
 RC 131.823 GL 51.36 GP -55.49 ZAL 109.34 ZAP 119.82 ETS 306.55 ZAE 113.57 ETE 217.51 ZAC 112.21 ETC 190.20 CLP-151.36

PLANETOCENTRIC CONIC
 C3 35.096 VHL 5.924 DLA 54.50 RAL 351.48 RAD 6568.4 VEL 12.509 PTH 2.26 VHP 7.106 DPA -46.27 RAP 43.50 ECC 1.5776
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.28 14 40 50 4473.69 -28.32 215.55 238.89 41.28 15 55 24 3873.7 -34.19 209.59
 138.72 23 38 22 2876.98 -28.31 87.45 238.87 41.27 24 26 19 2277.0 -34.17 81.49
 41.28 14 40 50 4473.69 -28.32 215.55 238.89 41.28 15 55 24 3873.7 -34.19 209.59
 138.72 23 38 22 2876.98 -28.31 87.45 238.87 41.27 24 26 19 2277.0 -34.17 81.49
 41.28 14 40 50 4473.69 -28.32 215.55 238.89 41.28 15 55 24 3873.7 -34.19 209.59
 138.72 23 38 22 2876.98 -28.31 87.45 238.87 41.27 24 26 19 2277.0 -34.17 81.49

DIFFERENTIAL CORRECTIONS
 TOE 2.1935 TRA-1.8224 TC3-1.6244 BAU .7854 SGT 4173.2 SGR 1047.0 SG3 196.3 ST 2309.2 SR 822.4 SS 909.7
 RDE .8382 RRA -.2752 RC3 -.4039 FAU .04446 RRT .9227 RRF .9798 RTF .9651 CRT .9719 CRS -.9972 CST -.9868
 FDE 1.4867 FRA -.7123 FC3-1.0968 BSP 13287 SGB 4302.5 R23 .2111 R13 .9698 LSA 2605.7 MSA 216.6 SSA 4.6
 BOE 2.3482 BRA 1.8431 BC3 1.6739 FSP -637 SG1 4284.5 SG2 393.1 THA 13.15 EL1 2444.5 EL2 182.8 ALF 19.20

LAUNCH DATE FEB 14 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.419 GAL -3.15 AZL 81.52 HCA 203.66 SMA 127.04 ECC .17179 INC 8.4769 V1 30.156
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.351 GAP 5.47 AZP 97.77 TAL 195.48 TAP 39.14 RCA 105.21 APO 148.86 V2 34.833
 RC 134.153 GL 48.39 GP -50.55 ZAL 109.96 ZAP 124.01 ETS 307.81 ZAE 116.74 ETE 216.10 ZAC 114.54 ETC 190.34 CLP-151.68

PLANETOCENTRIC CONIC
 C3 29.139 VHL 5.398 DLA 52.58 RAL 355.50 RAD 6568.2 VEL 12.268 PTH 2.21 VHP 6.619 DPA -41.23 RAP 41.56 ECC 1.4796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.65 15 3 47 4411.72 -29.87 210.62 239.45 44.48 16 17 19 3811.7 -35.40 204.16
 136.35 23 47 28 2845.37 -29.85 85.87 239.44 44.48 24 34 53 2245.4 -35.39 79.42
 43.65 15 3 47 4411.72 -29.87 210.62 239.45 44.48 16 17 19 3811.7 -35.40 204.16
 136.35 23 47 28 2845.37 -29.85 85.87 239.44 44.48 24 34 53 2245.4 -35.39 79.42
 43.65 15 3 47 4411.72 -29.87 210.62 239.45 44.48 16 17 19 3811.7 -35.40 204.16
 136.35 23 47 28 2845.37 -29.85 85.87 239.44 44.48 24 34 53 2245.4 -35.39 79.42

DIFFERENTIAL CORRECTIONS
 TOE 2.0670 TRA-1.6639 TC3-2.0799 BAU .8309 SGT 4278.3 SGR 1016.8 SG3 218.9 ST 2361.9 SR 794.1 SS 929.8
 RDE .7396 RRA -.2271 RC3 -.4726 FAU .05027 RRT .9243 RRF .9787 RTF .9608 CRT .9741 CRS -.9981 CST -.9862
 FDE 1.4970 FRA -.6520 FC3-1.4935 BSP 13771 SGB 4397.5 R23 .2189 R13 .9652 LSA 2651.2 MSA 211.3 SSA 5.5
 BOE 2.1954 BRA 1.6793 BC3 2.1329 FSP -727 SG1 4381.1 SG2 378.9 THA 12.48 EL1 2486.0 EL2 170.5 ALF 18.22

LAUNCH DATE FEB 14 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 435.035

RL 147.75 LAL .00 LOL 145.13 VL 27.378 GAL -2.89 AZL 82.49 MCA 206.81 SMA 126.77 ECC .17284 INC 7.5108 V1 30.156
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.329 GAP 5.71 AZP 96.71 TAL 194.08 TAP 40.89 RCA 104.86 APO 148.68 V2 34.841
 RC 136.471 GL 45.63 GP -46.13 ZAL 110.11 ZAP 127.89 ETS 308.75 ZAE 119.32 ETE 214.26 ZAC 116.72 ETC 190.08 CLP-152.40

PLANETOCENTRIC CONIC

C3 25.003 VHL 5.000 DLA 50.93 RAL 359.42 RAD 6568.0 VEL 12.099 PTH 2.17 VMP 6.303 DPA -36.62 RAP 40.36 ECC 1.4115
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.72 15 25 48 4359.18 -30.90 206.22 240.36 47.27 16 38 27 3759.2 -36.13 199.37
 134.28 0 0 40 2821.86 -30.89 84.55 240.34 47.27 0 47 42 2221.9 -36.12 77.70
 45.72 15 25 48 4359.18 -30.90 206.22 240.36 47.27 16 38 27 3759.2 -36.13 199.37
 134.28 0 0 40 2821.86 -30.89 84.55 240.34 47.27 0 47 42 2221.9 -36.12 77.70
 45.72 15 25 48 4359.18 -30.90 206.22 240.36 47.27 16 38 27 3759.2 -36.13 199.37
 134.28 0 0 40 2821.86 -30.89 84.55 240.34 47.27 0 47 42 2221.9 -36.12 77.70

DIFFERENTIAL CORRECTIONS

TDE 1.9835 TRA-1.5127 TC3-2.5349 BAU .8643
 RDE .6567 RRA -.1770 RC3 -.5104 FAU .05422
 FDE 1.4860 FRA -.5624 FC3-1.8774 BSP 14030
 BDE 2.0894 BRA 1.5230 BC3 2.5858 FSP -785

MID-COURSE EXECUTION ACCURACY

SGT 4376.6 SGR 964.6 SG3 236.1
 RRT .9213 RRF .9744 RTF .9565
 SGB 4481.6 R23 .2235 R13 .9604
 SG1 4466.5 SG2 367.5 THA 11.56

ORBIT DETERMINATION ACCURACY

ST 2419.1 SR 758.8 SS 942.7
 CRT .9757 CRS -.9986 CST -.9856
 LSA 2697.0 MSA 206.9 SSA 6.6
 EL1 2530.3 EL2 158.9 ALF 17.09

LAUNCH DATE FEB 14 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 440.956

RL 147.75 LAL .00 LOL 145.13 VL 27.337 GAL -2.63 AZL 83.27 MCA 209.96 SMA 126.49 ECC .17401 INC 6.7340 V1 30.156
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.307 GAP 5.96 AZP 95.84 TAL 192.66 TAP 42.61 RCA 104.48 APO 148.50 V2 34.850
 RC 138.775 GL 43.06 GP -42.20 ZAL 109.85 ZAP 131.45 ETS 309.54 ZAE 121.41 ETE 212.24 ZAC 118.79 ETC 189.65 CLP-153.34

PLANETOCENTRIC CONIC

C3 21.993 VHL 4.690 DLA 49.50 RAL 3.28 RAD 6567.9 VEL 11.974 PTH 2.13 VMP 6.102 DPA -32.41 RAP 39.73 ECC 1.3620
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.54 15 47 2 4314.12 -31.60 202.33 241.60 49.69 16 58 56 3714.1 -36.55 195.16
 132.46 0 10 15 2804.29 -31.58 83.47 241.59 49.68 0 56 59 2204.3 -36.54 76.30
 47.54 15 47 2 4314.12 -31.60 202.33 241.60 49.69 16 58 56 3714.1 -36.55 195.16
 132.46 0 10 15 2804.29 -31.58 83.47 241.59 49.68 0 56 59 2204.3 -36.54 76.30
 47.54 15 47 2 4314.12 -31.60 202.33 241.60 49.69 16 58 56 3714.1 -36.55 195.16
 132.46 0 10 15 2804.29 -31.58 83.47 241.59 49.68 0 56 59 2204.3 -36.54 76.30

DIFFERENTIAL CORRECTIONS

TDE 1.9204 TRA-1.3712 TC3-2.9964 BAU .8946
 RDE .5872 RRA -.1341 RC3 -.5283 FAU .05685
 FDE 1.4519 FRA -.4600 FC3-2.2377 BSP 14340
 BDE 2.0082 BRA 1.3778 BC3 3.0426 FSP -830

MID-COURSE EXECUTION ACCURACY

SGT 4478.5 SGR 907.7 SG3 248.9
 RRT .9168 RRF .9678 RTF .9527
 SGB 4569.5 R23 .2224 R13 .9561
 SG1 4555.6 SG2 356.4 THA 10.59

ORBIT DETERMINATION ACCURACY

ST 2472.0 SR 721.6 SS 945.7
 CRT .9772 CRS -.9991 CST -.9850
 LSA 2735.9 MSA 202.2 SSA 7.7
 EL1 2571.0 EL2 147.2 ALF 15.97

LAUNCH DATE FEB 14 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 446.868

RL 147.75 LAL .00 LOL 145.13 VL 27.296 GAL -2.36 AZL 83.91 MCA 213.11 SMA 126.22 ECC .17530 INC 6.0924 V1 30.156
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.285 GAP 6.21 AZP 95.11 TAL 191.21 TAP 44.33 RCA 104.09 APO 148.35 V2 34.860
 RC 141.067 GL 40.67 GP -38.73 ZAL 109.20 ZAP 134.70 ETS 310.21 ZAE 123.08 ETE 210.21 ZAC 120.81 ETC 189.14 CLP-154.38

PLANETOCENTRIC CONIC

C3 19.725 VHL 4.441 DLA 48.26 RAL 7.13 RAD 6567.8 VEL 11.879 PTH 2.11 VMP 5.982 DPA -28.58 RAP 39.53 ECC 1.3246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.13 16 7 40 4275.20 -32.05 198.90 243.18 51.76 17 18 55 3675.2 -36.76 191.48
 130.87 0 20 17 2791.03 -32.04 82.59 243.17 51.75 1 6 48 2191.0 -36.75 75.17
 49.13 16 7 40 4275.20 -32.05 198.90 243.18 51.76 17 18 55 3675.2 -36.76 191.48
 130.87 0 20 17 2791.03 -32.04 82.59 243.17 51.75 1 6 48 2191.0 -36.75 75.17
 49.13 16 7 40 4275.20 -32.05 198.90 243.18 51.76 17 18 55 3675.2 -36.76 191.48
 130.87 0 20 17 2791.03 -32.04 82.59 243.17 51.75 1 6 48 2191.0 -36.75 75.17

DIFFERENTIAL CORRECTIONS

TDE 1.8723 TRA-1.2326 TC3-3.4571 BAU .9223
 RDE .5304 RRA -.0981 RC3 -.5306 FAU .05828
 FDE 1.4016 FRA -.3493 FC3-2.5578 BSP 14644
 BDE 1.9460 BRA 1.2365 BC3 3.4976 FSP -860

MID-COURSE EXECUTION ACCURACY

SGT 4579.2 SGR 852.3 SG3 257.6
 RRT .9106 RRF .9589 RTF .9493
 SGB 4657.9 R23 .2164 R13 .9521
 SG1 4644.9 SG2 347.3 THA 9.67

ORBIT DETERMINATION ACCURACY

ST 2521.1 SR 686.7 SS 941.1
 CRT .9789 CRS -.9994 CST -.9845
 LSA 2770.3 MSA 197.2 SSA 8.8
 EL1 2609.5 EL2 135.6 ALF 14.97

LAUNCH DATE FEB 14 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 452.770

RL 147.75 LAL .00 LOL 145.13 VL 27.254 GAL -2.08 AZL 84.45 MCA 216.27 SMA 125.95 ECC .17672 INC 5.5506 V1 30.156
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.264 GAP 6.46 AZP 94.48 TAL 189.75 TAP 46.02 RCA 103.69 APO 148.21 V2 34.870
 RC 143.344 GL 38.42 GP -35.66 ZAL 108.21 ZAP 137.66 ETS 310.79 ZAE 124.41 ETE 208.23 ZAC 122.79 ETC 188.62 CLP-155.47

PLANETOCENTRIC CONIC

C3 17.971 VHL 4.239 DLA 47.18 RAL 10.99 RAD 6567.7 VEL 11.805 PTH 2.09 VMP 5.921 DPA -25.10 RAP 39.67 ECC 1.2958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.54 16 27 55 4241.25 -32.34 195.87 245.09 53.55 17 38 37 3641.3 -36.84 188.25
 129.46 0 30 51 2781.13 -32.33 81.89 245.08 53.54 1 17 12 2181.1 -36.83 74.27
 50.54 16 27 55 4241.25 -32.34 195.87 245.09 53.55 17 38 37 3641.3 -36.84 188.25
 129.46 0 30 51 2781.13 -32.33 81.89 245.08 53.54 1 17 12 2181.1 -36.83 74.27
 50.54 16 27 55 4241.25 -32.34 195.87 245.09 53.55 17 38 37 3641.3 -36.84 188.25
 129.46 0 30 51 2781.13 -32.33 81.89 245.08 53.54 1 17 12 2181.1 -36.83 74.27

DIFFERENTIAL CORRECTIONS

TDE 1.8372 TRA-1.0915 TC3-3.9055 BAU .9466
 RDE .4849 RRA -.0676 RC3 -.5196 FAU .05857
 FDE 1.3426 FRA -.2332 FC3-2.8217 BSP 14879
 BDE 1.9002 BRA 1.0936 BC3 3.9399 FSP -872

MID-COURSE EXECUTION ACCURACY

SGT 4673.5 SGR 801.0 SG3 262.5
 RRT .9023 RRF .9473 RTF .9461
 SGB 4741.7 R23 .2065 R13 .9485
 SG1 4729.4 SG2 341.2 THA 8.84

ORBIT DETERMINATION ACCURACY

ST 2569.0 SR 656.7 SS 931.8
 CRT .9809 CRS -.9997 CST -.9839
 LSA 2804.0 MSA 192.2 SSA 10.1
 EL1 2648.8 EL2 123.9 ALF 14.11

LAUNCH DATE FEB 14 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.212 GAL -1.78 AZL 84.92 HCA 219.44 SMA 125.68 ECC .17828 INC 5.0843 V1 30.156
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.243 GAP 6.72 AZP 93.93 TAL 188.27 TAP 47.70 RCA 103.27 APO 148.08 V2 34.880
 RC 145.608 GL 36.28 GP -32.96 ZAL 106.91 ZAP 140.35 ETS 311.28 ZAE 125.46 ETE 206.37 ZAC 124.75 ETC 188.12 CLP-156.58

PLANETOCENTRIC CONIC
 C3 16.590 VHL 4.073 DLA 46.24 RAL 14.90 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 5.904 DPA -21.93 RAP 40.10 ECC 1.2730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.79 16 48 0 4211.47 -32.50 193.18 247.31 55.10 17 58 12 3611.5 -36.82 185.40
 128.21 0 41 59 2773.94 -32.49 81.35 247.30 55.09 1 28 13 2173.9 -36.81 73.57
 51.79 16 48 0 4211.47 -32.50 193.18 247.31 55.10 17 58 12 3611.5 -36.82 185.40
 128.21 0 41 59 2773.94 -32.49 81.35 247.30 55.09 1 28 13 2173.9 -36.81 73.57
 51.79 16 48 0 4211.47 -32.50 193.18 247.31 55.10 17 58 12 3611.5 -36.82 185.40
 128.21 0 41 59 2773.94 -32.49 81.35 247.30 55.09 1 28 13 2173.9 -36.81 73.57

DIFFERENTIAL CORRECTIONS
 TOE 1.8060 TRA -.9512 TC3-4.3504 BAU .9713 SGT 4770.3 SGR 756.4 SG3 264.9 ST 2608.1 SR 630.2 SS 915.3
 ROE .4475 RRA -.0433 RC3 -.5032 FAU .05825 RRT .8931 RRF .9333 RTF .9436 CRT .9832 CRS -.9998 CST -.9832
 FOE 1.2735 FRA -.1209 FC3-3.0397 BSP 15193 SGB 4829.9 R23 .1918 R13 .9456 LSA 2828.8 MSA 186.6 SSA 11.4
 BOE 1.8606 BRA .9522 BC3 4.3794 FSP -881 SG1 4818.1 SG2 336.9 THA 8.10 EL1 2680.8 EL2 112.0 ALF 13.39

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.170 GAL -1.48 AZL 85.32 HCA 222.61 SMA 125.40 ECC .17998 INC 4.6766 V1 30.156
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.223 GAP 6.97 AZP 93.45 TAL 186.77 TAP 49.37 RCA 102.83 APO 147.97 V2 34.891
 RC 147.857 GL 34.24 GP -30.57 ZAL 105.31 ZAP 142.81 ETS 311.67 ZAE 126.30 ETE 204.65 ZAC 126.72 ETC 187.63 CLP-157.70

PLANETOCENTRIC CONIC
 C3 15.492 VHL 3.936 DLA 45.38 RAL 18.89 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 5.920 DPA -19.03 RAP 40.77 ECC 1.2550
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.92 17 8 4 4185.19 -32.57 190.78 249.83 56.45 18 17 50 3585.2 -36.72 182.88
 127.08 0 53 42 2769.09 -32.56 80.95 249.82 56.44 1 39 51 2169.1 -36.71 73.05
 52.92 17 8 4 4185.19 -32.57 190.78 249.83 56.45 18 17 50 3585.2 -36.72 182.88
 127.08 0 53 42 2769.09 -32.56 80.95 249.82 56.44 1 39 51 2169.1 -36.71 73.05
 52.92 17 8 4 4185.19 -32.57 190.78 249.83 56.45 18 17 50 3585.2 -36.72 182.88
 127.08 0 53 42 2769.09 -32.56 80.95 249.82 56.44 1 39 51 2169.1 -36.71 73.05

DIFFERENTIAL CORRECTIONS
 TOE 1.7793 TRA -.8064 TC3-4.7795 BAU .9949 SGT 4864.0 SGR 718.3 SG3 265.1 ST 2640.6 SR 608.2 SS 894.8
 ROE .4176 RRA -.0229 RC3 -.4823 FAU .05734 RRT .8822 RRF .9169 RTF .9416 CRT .9857 CRS -.9995 CST -.9825
 FOE 1.2006 FRA -.0108 FC3-3.2043 BSP 15501 SGB 4916.7 R23 .1747 R13 .9432 LSA 2847.9 MSA 181.0 SSA 12.7
 BOE 1.8277 BRA .8068 BC3 4.8038 FSP -882 SG1 4905.3 SG2 335.4 THA 7.46 EL1 2707.9 EL2 100.0 ALF 12.81

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.128 GAL -1.16 AZL 85.68 HCA 225.78 SMA 125.13 ECC .18183 INC 4.3150 V1 30.156
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.203 GAP 7.23 AZP 93.01 TAL 185.25 TAP 51.03 RCA 102.38 APO 147.89 V2 34.902
 RC 150.092 GL 32.26 GP -28.46 ZAL 103.44 ZAP 145.05 ETS 311.97 ZAE 126.97 ETE 203.07 ZAC 128.69 ETC 187.18 CLP-158.80

PLANETOCENTRIC CONIC
 C3 14.618 VHL 3.823 DLA 44.60 RAL 22.96 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 5.962 DPA -16.37 RAP 41.63 ECC 1.2406
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.98 17 28 19 4161.77 -32.56 188.61 252.64 57.64 18 37 41 3561.8 -36.56 180.61
 126.02 1 5 56 2766.53 -32.54 80.70 252.63 57.63 1 52 3 2166.5 -36.55 72.70
 53.98 17 28 19 4161.77 -32.56 188.61 252.64 57.64 18 37 41 3561.8 -36.56 180.61
 126.02 1 5 56 2766.53 -32.54 80.70 252.63 57.63 1 52 3 2166.5 -36.55 72.70
 53.98 17 28 19 4161.77 -32.56 188.61 252.64 57.64 18 37 41 3561.8 -36.56 180.61
 126.02 1 5 56 2766.53 -32.54 80.70 252.63 57.63 1 52 3 2166.5 -36.55 72.70

DIFFERENTIAL CORRECTIONS
 TOE 1.7534 TRA -.6578 TC3-5.1853 BAU 1.0173 SGT 4954.1 SGR 685.9 SG3 263.4 ST 2662.9 SR 589.7 SS 869.0
 ROE .3934 RRA -.0059 RC3 -.4581 FAU .05595 RRT .8698 RRF .8981 RTF .9402 CRT .9884 CRS -.9988 CST -.9817
 FOE 1.1239 FRA .0933 FC3-3.3137 BSP 15822 SGB 5001.3 R23 .1552 R13 .9414 LSA 2857.1 MSA 175.1 SSA 14.2
 BOE 1.7970 BRA .6578 BC3 5.2055 FSP -879 SG1 4990.0 SG2 336.0 THA 6.90 EL1 2726.0 EL2 87.6 ALF 12.36

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 27.085 GAL -.84 AZL 86.01 HCA 228.95 SMA 124.86 ECC .18385 INC 3.9902 V1 30.156
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.183 GAP 7.49 AZP 92.62 TAL 183.72 TAP 52.67 RCA 101.91 APO 147.82 V2 34.914
 RC 152.312 GL 30.33 GP -26.58 ZAL 101.33 ZAP 147.11 ETS 312.16 ZAE 127.50 ETE 201.63 ZAC 130.68 ETC 186.75 CLP-159.88

PLANETOCENTRIC CONIC
 C3 13.930 VHL 3.732 DLA 43.86 RAL 27.13 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 6.026 DPA -13.92 RAP 42.65 ECC 1.2293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.99 17 48 52 4140.78 -32.45 186.63 255.71 58.70 18 57 52 3540.8 -36.33 178.56
 125.01 1 18 39 2766.21 -32.44 80.59 255.71 58.69 2 4 45 2166.2 -36.32 72.53
 54.99 17 48 52 4140.78 -32.45 186.63 255.71 58.70 18 57 52 3540.8 -36.33 178.56
 125.01 1 18 39 2766.21 -32.44 80.59 255.71 58.69 2 4 45 2166.2 -36.32 72.53
 54.99 17 48 52 4140.78 -32.45 186.63 255.71 58.70 18 57 52 3540.8 -36.33 178.56
 125.01 1 18 39 2766.21 -32.44 80.59 255.71 58.69 2 4 45 2166.2 -36.32 72.53

DIFFERENTIAL CORRECTIONS
 TOE 1.7284 TRA -.5006 TC3-5.5584 BAU 1.0383 SGT 5039.0 SGR 659.5 SG3 260.3 ST 2675.4 SR 575.1 SS 840.8
 ROE .3745 RRA .0095 RC3 -.4320 FAU .05418 RRT .8551 RRF .8775 RTF .9387 CRT .9911 CRS -.9973 CST -.9806
 FOE 1.0478 FRA .1957 FC3-3.3674 BSP 16097 SGB 5081.9 R23 .1370 R13 .9398 LSA 2857.7 MSA 169.9 SSA 15.7
 BOE 1.7685 BRA .5007 BC3 5.5751 FSP -867 SG1 5070.6 SG2 339.8 THA 6.42 EL1 2735.5 EL2 75.0 ALF 12.04

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 482.100

RL 147.75 LAL .00 LOL 145.13 VL 27.043 GAL -.50 AZL 86.30 MCA 232.13 SMA 124.59 ECC .18603 INC 3.6952 V1 30.156
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.163 GAP 7.76 AZP 92.27 TAL 182.17 TAP 54.30 RCA 101.42 APO 147.77 V2 34.926
 RC 154.516 GL 28.43 GP -24.92 ZAL 98.99 ZAP 149.01 ETS 312.25 ZAE 127.93 ETE 200.34 ZAC 132.69 ETC 186.35 CLP-160.95

PLANETOCENTRIC CONIC

C3 13.401 VHL 3.661 DLA 43.14 RAL 31.39 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 6.107 DPA -11.66 RAP 43.83 ECC 1.2205
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.99 18 9 52 4121.62 -32.26 184.78 259.05 59.65 19 18 33 3521.6 -36.02 176.65
 124.01 1 31 39 2768.43 -32.25 80.66 259.04 59.64 2 17 47 2168.4 -36.01 72.54
 55.99 18 9 52 4121.62 -32.26 184.78 259.05 59.65 19 18 33 3521.6 -36.02 176.65
 124.01 1 31 39 2768.43 -32.25 80.66 259.04 59.64 2 17 47 2168.4 -36.01 72.54
 55.99 18 9 52 4121.62 -32.26 184.78 259.05 59.65 19 18 33 3521.6 -36.02 176.65
 124.01 1 31 39 2768.43 -32.25 80.66 259.04 59.64 2 17 47 2168.4 -36.01 72.54

DIFFERENTIAL CORRECTIONS

TOE 1.7012 TRA -.3366 TC3-5.8907 BAU 1.0578
 RDE .3596 RRA .0230 RC3 -.4057 FAU .05219
 FDE .9713 FRA .2914 FC3-3.3715 BSP 16333
 BOE 1.7388 BRA .3374 BC3 5.9047 FSP -849

MID-COURSE EXECUTION ACCURACY

SGT 5119.7 SGR 638.4 SG3 256.2
 RRT .8396 RRF .8556 RTF .9381
 SGB 5159.4 R23 .1185 R13 .9389
 SG1 5147.8 SG2 344.8 THA 6.00

ORBIT DETERMINATION ACCURACY

ST 2674.6 SR 563.2 SS 809.1
 CRT .9937 CRS -.9948 CST -.9793
 LSA 2845.7 MSA 164.7 SSA 17.2
 EL1 2732.6 EL2 61.7 ALF 11.82

LAUNCH DATE FEB 14 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 487.925

RL 147.75 LAL .00 LOL 145.13 VL 27.001 GAL -.14 AZL 86.58 MCA 235.31 SMA 124.33 ECC .18839 INC 3.4244 V1 30.156
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.144 GAP 8.03 AZP 91.95 TAL 180.61 TAP 55.92 RCA 100.91 APO 147.75 V2 34.938
 RC 156.704 GL 26.56 GP -23.44 ZAL 96.44 ZAP 150.76 ETS 312.21 ZAE 128.27 ETE 199.17 ZAC 134.73 ETC 185.97 CLP-162.00

PLANETOCENTRIC CONIC

C3 13.013 VHL 3.607 DLA 42.40 RAL 35.73 RAD 6567.5 VEL 11.593 PTH 2.03 VHP 6.204 DPA -9.57 RAP 45.13 ECC 1.2142
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.02 18 31 26 4103.83 -31.98 183.01 262.61 60.53 19 39 49 3503.8 -35.63 174.85
 122.98 1 44 45 2773.52 -31.97 80.92 262.60 60.51 2 30 58 2173.5 -35.62 72.77
 57.02 18 31 26 4103.83 -31.98 183.01 262.61 60.53 19 39 49 3503.8 -35.63 174.85
 122.98 1 44 45 2773.52 -31.97 80.92 262.60 60.51 2 30 58 2173.5 -35.62 72.77
 57.02 18 31 26 4103.83 -31.98 183.01 262.61 60.53 19 39 49 3503.8 -35.63 174.85
 122.98 1 44 45 2773.52 -31.97 80.92 262.60 60.51 2 30 58 2173.5 -35.62 72.77

DIFFERENTIAL CORRECTIONS

TOE 1.6583 TRA -.1733 TC3-6.1892 BAU 1.0788
 RDE .3453 RRA .0334 RC3 -.3814 FAU .05015
 FDE .8814 FRA .3715 FC3-3.3366 BSP 16716
 BOE 1.6939 BRA .1765 BC3 6.2009 FSP -843

MID-COURSE EXECUTION ACCURACY

SGT 5197.7 SGR 617.8 SG3 250.3
 RRT .8242 RRF .8312 RTF .9389
 SGB 5234.2 R23 .0950 R13 .9396
 SG1 5222.6 SG2 348.2 THA 5.62

ORBIT DETERMINATION ACCURACY

ST 2639.6 SR 549.0 SS 762.3
 CRT .9960 CRS -.9909 CST -.9777
 LSA 2797.3 MSA 158.2 SSA 18.9
 EL1 2695.7 EL2 47.9 ALF 11.71

LAUNCH DATE FEB 14 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 493.735

RL 147.75 LAL .00 LOL 145.13 VL 26.959 GAL .23 AZL 86.83 MCA 238.49 SMA 124.06 ECC .19095 INC 3.1734 V1 30.156
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.125 GAP 8.31 AZP 91.66 TAL 179.04 TAP 57.54 RCA 100.37 APO 147.75 V2 34.951
 RC 158.875 GL 24.70 GP -22.11 ZAL 93.72 ZAP 152.38 ETS 312.06 ZAE 128.55 ETE 198.12 ZAC 136.79 ETC 185.60 CLP-163.02

PLANETOCENTRIC CONIC

C3 12.757 VHL 3.572 DLA 41.64 RAL 40.15 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 6.314 DPA -7.62 RAP 46.54 ECC 1.2100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.10 18 53 36 4087.06 -31.59 181.29 266.38 61.33 20 1 43 3487.1 -35.15 173.12
 121.90 1 57 47 2781.75 -31.58 81.39 266.38 61.32 2 44 9 2181.8 -35.14 73.22
 58.10 18 53 36 4087.06 -31.59 181.29 266.38 61.33 20 1 43 3487.1 -35.15 173.12
 121.90 1 57 47 2781.75 -31.58 81.39 266.38 61.32 2 44 9 2181.8 -35.14 73.22
 58.10 18 53 36 4087.06 -31.59 181.29 266.38 61.33 20 1 43 3487.1 -35.15 173.12
 121.90 1 57 47 2781.75 -31.58 81.39 266.38 61.32 2 44 9 2181.8 -35.14 73.22

DIFFERENTIAL CORRECTIONS

TOE 1.6233 TRA .0127 TC3-6.4251 BAU 1.0975
 RDE .3378 RRA .0476 RC3 -.3575 FAU .04798
 FDE .8118 FRA .4678 FC3-3.2560 BSP 16819
 BOE 1.6581 BRA .0493 BC3 6.4350 FSP -807

MID-COURSE EXECUTION ACCURACY

SGT 5277.1 SGR 607.7 SG3 246.1
 RRT .8064 RRF .8101 RTF .9376
 SGB 5312.0 R23 .0854 R13 .9382
 SG1 5299.9 SG2 357.9 THA 5.33

ORBIT DETERMINATION ACCURACY

ST 2607.7 SR 542.8 SS 730.1
 CRT .9978 CRS -.9847 CST -.9750
 LSA 2757.3 MSA 157.6 SSA 20.5
 EL1 2663.4 EL2 35.0 ALF 11.74

LAUNCH DATE FEB 14 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 499.528

RL 147.75 LAL .00 LOL 145.13 VL 26.917 GAL .61 AZL 87.06 MCA 241.68 SMA 123.80 ECC .19371 INC 2.9388 V1 30.156
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.107 GAP 8.60 AZP 91.39 TAL 177.46 TAP 59.14 RCA 99.82 APO 147.78 V2 34.964
 RC 161.027 GL 22.85 GP -20.93 ZAL 90.83 ZAP 153.89 ETS 311.77 ZAE 128.78 ETE 197.17 ZAC 138.87 ETC 185.24 CLP-164.03

PLANETOCENTRIC CONIC

C3 12.627 VHL 3.553 DLA 40.82 RAL 44.61 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.436 DPA -5.81 RAP 48.05 ECC 1.2078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.27 19 16 31 4070.70 -31.10 179.57 270.33 62.10 20 24 21 3470.7 -34.56 171.40
 120.73 2 10 28 2793.72 -31.09 82.11 270.33 62.09 2 57 2 2193.7 -34.55 73.94
 59.27 19 16 31 4070.70 -31.10 179.57 270.33 62.10 20 24 21 3470.7 -34.56 171.40
 120.73 2 10 28 2793.72 -31.09 82.11 270.33 62.09 2 57 2 2193.7 -34.55 73.94
 59.27 19 16 31 4070.70 -31.10 179.57 270.33 62.10 20 24 21 3470.7 -34.56 171.40
 120.73 2 10 28 2793.72 -31.09 82.11 270.33 62.09 2 57 2 2193.7 -34.55 73.94

DIFFERENTIAL CORRECTIONS

TOE 1.5759 TRA .2011 TC3-6.5843 BAU 1.1129
 RDE .3310 RRA .0593 RC3 -.3312 FAU .04550
 FDE .7353 FRA .5484 FC3-3.1193 BSP 17099
 BOE 1.6103 BRA .2097 BC3 6.5926 FSP -792

MID-COURSE EXECUTION ACCURACY

SGT 5342.0 SGR 596.8 SG3 239.5
 RRT .7878 RRF .7870 RTF .9377
 SGB 5375.3 R23 .0728 R13 .9382
 SG1 5362.8 SG2 366.2 THA 5.05

ORBIT DETERMINATION ACCURACY

ST 2548.2 SR 535.1 SS 688.5
 CRT .9989 CRS -.9759 CST -.9721
 LSA 2688.6 MSA 156.1 SSA 22.0
 EL1 2603.6 EL2 24.4 ALF 11.85

LAUNCH DATE FEB 14 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 505.302

RL 147.75 LAL .00 LOL 145.13 VL 26.875 GAL 1.01 AZL 87.28 MCA 244.87 SMA 123.54 ECC .19670 INC 2.7178 VI 30.156
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.089 GAP 8.90 AZP 91.15 TAL 175.88 TAP 60.74 RCA .99.24 APO 147.84 V2 34.977
 RC 163.161 GL 21.02 GP -19.86 ZAL 87.82 ZAP 155.30 ETS 311.35 ZAE 128.98 ETE 196.32 ZAC 140.98 ETC 184.88 CLP-165.01

PLANETOCENTRIC CONIC

C3 12.621 VHL 3.553 DLA 39.95 RAL 49.08 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.571 DPA -4.11 RAP 49.66 ECC 1.2077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.55 19 40 8 4054.39 -30.49 177.81 274.43 62.83 20 47 43 3454.4 -33.87 169.65
 119.45 2 22 33 2809.83 -30.48 83.11 274.42 62.82 3 9 22 2209.8 -33.86 74.95
 60.55 19 40 8 4054.39 -30.49 177.81 274.43 62.83 20 47 43 3454.4 -33.87 169.65
 119.45 2 22 33 2809.83 -30.48 83.11 274.42 62.82 3 9 22 2209.8 -33.86 74.95
 60.55 19 40 8 4054.39 -30.49 177.81 274.43 62.83 20 47 43 3454.4 -33.87 169.65
 119.45 2 22 33 2809.83 -30.48 83.11 274.42 62.82 3 9 22 2209.8 -33.86 74.95

DIFFERENTIAL CORRECTIONS

TOE 1.5191 TRA .3994 TC3-6.6809 BAU 1.1285
 ROE .3260 RRA .0710 RC3 -.3081 FAU .04314
 FDE .6594 FRA .6244 FC3-2.9595 BSP 17292
 BOE 1.5536 BRA .4056 BC3 6.6880 FSP -768

MID-COURSE EXECUTION ACCURACY

SGT 5407.5 SGR 588.8 SG3 233.1
 RRT .7704 RRF .7654 RTF .9385
 SGB 5439.4 R23 .0611 R13 .9388
 SG1 5426.6 SG2 374.1 THA 4.82

ORBIT DETERMINATION ACCURACY

ST 2466.9 SR 527.7 SS 644.9
 CRT .9988 CRS -.9630 CST -.9684
 LSA 2599.0 MSA 156.8 SSA 23.3
 EL1 2522.6 EL2 25.0 ALF 12.06

LAUNCH DATE FEB 14 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 511.056

RL 147.75 LAL .00 LOL 145.13 VL 26.833 GAL 1.42 AZL 87.49 MCA 248.06 SMA 123.28 ECC .19992 INC 2.5078 VI 30.156
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.071 GAP 9.20 AZP 90.94 TAL 174.28 TAP 62.34 RCA 98.64 APO 147.93 V2 34.990
 RC 165.276 GL 19.20 GP -18.90 ZAL 84.71 ZAP 156.62 ETS 310.79 ZAE 129.14 ETE 195.56 ZAC 143.11 ETC 184.51 CLP-165.98

PLANETOCENTRIC CONIC

C3 12.741 VHL 3.569 DLA 39.01 RAL 53.54 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.717 DPA -2.53 RAP 51.34 ECC 1.2097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.97 20 4 33 4037.56 -29.77 175.97 278.64 63.53 21 11 51 3437.6 -33.06 167.84
 118.03 2 33 41 2830.71 -29.75 84.44 278.63 63.52 3 20 52 2230.7 -33.05 76.31
 61.97 20 4 33 4037.56 -29.77 175.97 278.64 63.53 21 11 51 3437.6 -33.06 167.84
 118.03 2 33 41 2830.71 -29.75 84.44 278.63 63.52 3 20 52 2230.7 -33.05 76.31
 61.97 20 4 33 4037.56 -29.77 175.97 278.64 63.53 21 11 51 3437.6 -33.06 167.84
 118.03 2 33 41 2830.71 -29.75 84.44 278.63 63.52 3 20 52 2230.7 -33.05 76.31

DIFFERENTIAL CORRECTIONS

TOE 1.4482 TRA .6050 TC3-6.7131 BAU 1.1445
 ROE .3220 RRA .0828 RC3 -.2873 FAU .04089
 FDE .5814 FRA .6949 FC3-2.7784 BSP 17534
 BOE 1.4836 BRA .6106 BC3 6.7192 FSP -748

MID-COURSE EXECUTION ACCURACY

SGT 5471.1 SGR 581.7 SG3 226.4
 RRT .7535 RRF .7444 RTF .9395
 SGB 5501.9 R23 .0502 R13 .9398
 SG1 5488.7 SG2 381.2 THA 4.60

ORBIT DETERMINATION ACCURACY

ST 2359.1 SR 519.4 SS 597.5
 CRT .9969 CRS -.9440 CST -.9632
 LSA 2483.0 MSA 160.8 SSA 24.2
 EL1 2415.2 EL2 39.7 ALF 12.38

LAUNCH DATE FEB 14 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 516.789

RL 147.75 LAL .00 LOL 145.13 VL 26.792 GAL 1.86 AZL 87.69 MCA 251.25 SMA 123.03 ECC .20341 INC 2.3070 VI 30.156
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.053 GAP 9.52 AZP 90.74 TAL 172.69 TAP 63.94 RCA 98.00 APO 148.05 V2 35.003
 RC 167.370 GL 17.40 GP -18.04 ZAL 81.53 ZAP 157.85 ETS 310.08 ZAE 129.28 ETE 194.87 ZAC 145.26 ETC 184.13 CLP-166.93

PLANETOCENTRIC CONIC

C3 12.991 VHL 3.604 DLA 38.00 RAL 57.95 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 6.874 DPA -1.04 RAP 53.10 ECC 1.2138
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.53 20 29 45 4019.74 -28.93 174.02 282.94 64.21 21 36 45 3419.7 -32.14 165.93
 116.47 2 43 38 2856.89 -28.91 86.13 282.93 64.20 3 31 14 2256.9 -32.13 78.04
 63.53 20 29 45 4019.74 -28.93 174.02 282.94 64.21 21 36 45 3419.7 -32.14 165.93
 116.47 2 43 38 2856.89 -28.91 86.13 282.93 64.20 3 31 14 2256.9 -32.13 78.04
 63.53 20 29 45 4019.74 -28.93 174.02 282.94 64.21 21 36 45 3419.7 -32.14 165.93
 116.47 2 43 38 2856.89 -28.91 86.13 282.93 64.20 3 31 14 2256.9 -32.13 78.04

DIFFERENTIAL CORRECTIONS

TOE 1.3666 TRA .8208 TC3-6.6692 BAU 1.1592
 ROE .3193 RRA .0950 RC3 -.2673 FAU .03863
 FDE .5048 FRA .7619 FC3-2.5746 BSP 17779
 BOE 1.4034 BRA .8263 BC3 6.6745 FSP -730

MID-COURSE EXECUTION ACCURACY

SGT 5529.4 SGR 575.7 SG3 219.4
 RRT .7370 RRF .7245 RTF .9407
 SGB 5559.2 R23 .0410 R13 .9409
 SG1 5545.7 SG2 388.0 THA 4.41

ORBIT DETERMINATION ACCURACY

ST 2233.2 SR 510.8 SS 550.6
 CRT .9923 CRS -.9166 CST -.9565
 LSA 2349.9 MSA 169.2 SSA 24.7
 EL1 2290.0 EL2 61.6 ALF 12.80

LAUNCH DATE FEB 14 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 522.498

RL 147.75 LAL .00 LOL 145.13 VL 26.750 GAL 2.31 AZL 87.89 MCA 254.45 SMA 122.78 ECC .20717 INC 2.1135 VI 30.156
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.036 GAP 9.85 AZP 90.57 TAL 171.09 TAP 65.54 RCA 97.34 APO 148.21 V2 35.016
 RC 169.445 GL 15.63 GP -17.26 ZAL 78.32 ZAP 159.01 ETS 309.20 ZAE 129.40 ETE 194.26 ZAC 147.43 ETC 183.73 CLP-167.86

PLANETOCENTRIC CONIC

C3 13.379 VHL 3.658 DLA 36.91 RAL 62.26 RAD 6567.5 VEL 11.609 PTH 2.03 VHP 7.042 DPA .36 RAP 54.93 ECC 1.2202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.26 20 55 50 4000.22 -27.97 171.91 287.28 64.87 22 2 30 3400.2 -31.11 163.87
 114.74 2 52 0 2889.14 -27.96 88.25 287.28 64.85 3 40 9 2289.1 -31.10 80.21
 65.26 20 55 50 4000.22 -27.97 171.91 287.28 64.87 22 2 30 3400.2 -31.11 163.87
 114.74 2 52 0 2889.14 -27.96 88.25 287.28 64.85 3 40 9 2289.1 -31.10 80.21
 65.26 20 55 50 4000.22 -27.97 171.91 287.28 64.87 22 2 30 3400.2 -31.11 163.87
 114.74 2 52 0 2889.14 -27.96 88.25 287.28 64.85 3 40 9 2289.1 -31.10 80.21

DIFFERENTIAL CORRECTIONS

TOE 1.2781 TRA 1.0509 TC3-6.5424 BAU 1.1711
 ROE .3183 RRA .1080 RC3 -.2469 FAU .03631
 FDE .4327 FRA .8276 FC3-2.3496 BSP 17907
 BOE 1.3172 BRA 1.0564 BC3 6.5471 FSP -705

MID-COURSE EXECUTION ACCURACY

SGT 5581.6 SGR 570.9 SG3 212.4
 RRT .7212 RRF .7065 RTF .9418
 SGB 5610.7 R23 .0344 R13 .9420
 SG1 5596.8 SG2 394.4 THA 4.24

ORBIT DETERMINATION ACCURACY

ST 2100.1 SR 502.6 SS 508.6
 CRT .9835 CRS -.8785 CST -.9484
 LSA 2210.9 MSA 182.6 SSA 24.6
 EL1 2157.6 EL2 88.4 ALF 13.27

LAUNCH DATE FEB 14 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 528.180

RL 147.75 LAL .00 LOL 145.13 VL 26.709 GAL 2.79 AZL 88.07 MCA 257.65 SMA 122.53 ECC .21124 INC 1.9257 V1 30.156
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.019 GAP 10.20 AZP 90.41 TAL 169.49 TAP 67.14 RCA 96.65 APO 148.41 V2 35.030
 RC 171.498 GL 13.91 GP -16.55 ZAL 75.09 ZAP 160.09 ETS 308.15 ZAE 129.50 ETE 193.70 ZAC 149.62 ETC 183.30 CLP-168.78

PLANETOCENTRIC CONIC

C3 13.915 VHL 3.730 DLA 35.77 RAL 66.46 RAD 6567.5 VEL 11.632 PTH 2.04 VHP 7.223 DPA 1.67 RAP 56.81 ECC 1.2290
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.17 21 22 53 3978.24 -26.92 169.60 291.66 65.51 22 29 11 3378.2 -29.99 161.61
 112.83 2 58 27 2928.26 -26.91 90.84 291.65 65.49 3 47 15 2328.3 -29.98 82.86
 67.17 21 22 53 3978.24 -26.92 169.60 291.66 65.51 22 29 11 3378.2 -29.99 161.61
 112.83 2 58 27 2928.26 -26.91 90.84 291.65 65.49 3 47 15 2328.3 -29.98 82.86
 67.17 21 22 53 3978.24 -26.92 169.60 291.66 65.51 22 29 11 3378.2 -29.99 161.61
 112.83 2 58 27 2928.26 -26.91 90.84 291.65 65.49 3 47 15 2328.3 -29.98 82.86

DIFFERENTIAL CORRECTIONS

TOE 1.1755 TRA 1.2892 TC3-6.3574 BAU 1.1834
 RDE .3179 RRA .1214 RC3 -.2283 FAU .03413
 FDE .3604 FRA .8890 FC3-2.1232 BSP 18119
 BDE 1.2177 BRA 1.2949 BC3 6.3615 FSP -685

MID-COURSE EXECUTION ACCURACY

SGT 5631.3 SGR 565.9 SG3 205.3
 RRT .7062 RRF .6893 RTF .9430
 SGB 5659.7 R23 .0282 R13 .9431
 SG1 5645.6 SG2 399.6 THA 4.08

ORBIT DETERMINATION ACCURACY

ST 1953.5 SR 493.1 SS 468.5
 CRT .9683 CRS -.8248 CST -.9382
 LSA 2058.5 MSA 202.0 SSA 24.0
 EL1 2011.2 EL2 119.7 ALF 13.78

LAUNCH DATE FEB 14 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 533.832

RL 147.75 LAL .00 LOL 145.13 VL 26.668 GAL 3.28 AZL 88.26 MCA 260.85 SMA 122.28 ECC .21564 INC 1.7423 V1 30.156
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.002 GAP 10.56 AZP 90.28 TAL 167.89 TAP 68.74 RCA 95.91 APO 148.65 V2 35.043
 RC 173.532 GL 12.23 GP -15.91 ZAL 71.88 ZAP 161.12 ETS 306.91 ZAE 129.60 ETE 193.20 ZAC 151.82 ETC 182.81 CLP-169.69

PLANETOCENTRIC CONIC

C3 14.611 VHL 3.822 DLA 34.57 RAL 70.52 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 7.416 DPA 2.90 RAP 58.75 ECC 1.2405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.28 21 51 5 3952.82 -25.78 167.02 296.04 66.12 22 56 58 3352.8 -28.78 159.09
 110.72 3 2 36 2975.26 -25.77 93.99 296.03 66.11 3 52 11 2375.3 -28.77 86.06
 69.28 21 51 5 3952.82 -25.78 167.02 296.04 66.12 22 56 58 3352.8 -28.78 159.09
 110.72 3 2 36 2975.26 -25.77 93.99 296.03 66.11 3 52 11 2375.3 -28.77 86.06
 69.28 21 51 5 3952.82 -25.78 167.02 296.04 66.12 22 56 58 3352.8 -28.78 159.09
 110.72 3 2 36 2975.26 -25.77 93.99 296.03 66.11 3 52 11 2375.3 -28.77 86.06

DIFFERENTIAL CORRECTIONS

TOE 1.0637 TRA 1.5390 TC3-6.1119 BAU 1.1946
 RDE .3185 RRA .1354 RC3 -.2104 FAU .03199
 FDE .2914 FRA .9473 FC3-1.8957 BSP 18311
 BDE 1.1103 BRA 1.5450 BC3 6.1155 FSP -665

MID-COURSE EXECUTION ACCURACY

SGT 5676.6 SGR 560.9 SG3 198.2
 RRT .6920 RRF .6734 RTF .9443
 SGB 5704.2 R23 .0230 R13 .9444
 SG1 5689.9 SG2 403.9 THA 3.93

ORBIT DETERMINATION ACCURACY

ST 1807.8 SR 483.2 SS 434.7
 CRT .9434 CRS -.7535 CST -.9273
 LSA 1907.5 MSA 227.1 SSA 23.0
 EL1 1864.8 EL2 155.3 ALF 14.25

LAUNCH DATE FEB 14 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 539.450

RL 147.75 LAL .00 LOL 145.13 VL 26.628 GAL 3.80 AZL 88.44 MCA 264.06 SMA 122.04 ECC .22040 INC 1.5621 V1 30.156
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.986 GAP 10.94 AZP 90.16 TAL 166.29 TAP 70.35 RCA 95.14 APO 148.94 V2 35.056
 RC 175.544 GL 10.61 GP -15.32 ZAL 68.72 ZAP 162.08 ETS 305.47 ZAE 129.68 ETE 192.74 ZAC 154.04 ETC 182.26 CLP-170.59

PLANETOCENTRIC CONIC

C3 15.484 VHL 3.935 DLA 33.34 RAL 74.41 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 7.622 DPA 4.06 RAP 60.75 ECC 1.2548
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.62 22 20 50 3922.33 -24.57 164.06 300.41 66.72 23 26 12 3322.3 -27.50 156.19
 108.38 3 3 53 3031.73 -24.55 97.80 300.40 66.71 3 54 24 2431.7 -27.49 89.93
 71.62 22 20 50 3922.33 -24.57 164.06 300.41 66.72 23 26 12 3322.3 -27.50 156.19
 108.38 3 3 53 3031.73 -24.55 97.80 300.40 66.71 3 54 24 2431.7 -27.49 89.93
 110.00 4 11 22 2824.84 -29.47 83.84 302.49 71.85 4 58 27 2224.8 -31.67 75.32
 110.00 2 16 27 3177.22 -19.83 106.61 297.93 61.57 3 9 24 2577.2 -23.47 99.36

DIFFERENTIAL CORRECTIONS

TOE .9430 TRA 1.8021 TC3-5.8137 BAU 1.2041
 RDE .3201 RRA .1501 RC3 -.1931 FAU .02992
 FDE .2253 FRA 1.0042 FC3-1.6727 BSP 18497
 BDE .9959 BRA 1.8083 BC3 5.8169 FSP -646

MID-COURSE EXECUTION ACCURACY

SGT 5717.0 SGR 555.7 SG3 191.3
 RRT .6790 RRF .6589 RTF .9456
 SGB 5744.0 R23 .0186 R13 .9456
 SG1 5729.5 SG2 407.1 THA 3.79

ORBIT DETERMINATION ACCURACY

ST 1670.9 SR 472.7 SS 408.5
 CRT .9047 CRS -.6625 CST -.9170
 LSA 1765.1 MSA 257.6 SSA 21.9
 EL1 1725.5 EL2 195.0 ALF 14.55

LAUNCH DATE FEB 14 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 545.031

RL 147.75 LAL .00 LOL 145.13 VL 26.588 GAL 4.35 AZL 88.62 MCA 267.26 SMA 121.80 ECC .22554 INC 1.3838 V1 30.156
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.969 GAP 11.34 AZP 90.07 TAL 164.70 TAP 71.97 RCA 94.33 APO 149.27 V2 35.069
 RC 177.535 GL 9.05 GP -14.79 ZAL 65.64 ZAP 162.98 ETS 303.82 ZAE 129.75 ETE 192.33 ZAC 156.27 ETC 181.62 CLP-171.48

PLANETOCENTRIC CONIC

C3 16.553 VHL 4.069 DLA 32.08 RAL 78.11 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 7.843 DPA 5.14 RAP 62.79 ECC 1.2724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.26 22 52 42 3884.51 -23.29 160.56 304.75 67.30 23 57 27 3284.5 -26.16 152.76
 105.74 3 1 34 3099.89 -23.28 102.44 304.74 67.28 3 53 13 2499.9 -26.15 94.63
 74.26 22 52 42 3884.51 -23.29 160.56 304.75 67.30 23 57 27 3284.5 -26.16 152.76
 105.74 3 1 34 3099.89 -23.28 102.44 304.74 67.28 3 53 13 2499.9 -26.15 94.63
 110.00 4 59 3 2736.40 -31.18 77.52 307.76 75.23 5 44 40 2136.4 -32.89 68.71
 110.00 1 58 19 3296.00 -15.83 113.50 300.77 59.30 2 53 15 2696.0 -19.79 106.61

DIFFERENTIAL CORRECTIONS

TOE .8149 TRA 2.0789 TC3-5.4727 BAU 1.2117
 RDE .3226 RRA .1655 RC3 -.1759 FAU .02787
 FDE .1629 FRA 1.0596 FC3-1.4574 BSP 18649
 BDE .8765 BRA 2.0855 BC3 5.4755 FSP -625

MID-COURSE EXECUTION ACCURACY

SGT 5752.0 SGR 550.1 SG3 184.5
 RRT .6667 RRF .6456 RTF .9467
 SGB 5778.3 R23 .0152 R13 .9468
 SG1 5763.8 SG2 409.2 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 1552.2 SR 461.8 SS 391.0
 CRT .8476 CRS -.5553 CST -.9106
 LSA 1640.1 MSA 291.8 SSA 20.6
 EL1 1601.9 EL2 237.5 ALF 14.48

LAUNCH DATE FEB 14 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 550.570

RL 147.75 LAL .00 LOL 145.13 VL 26.548 GAL 4.92 AZL 88.79 MCA 270.47 SMA 121.56 ECC .23112 INC 1.2063 V1 30.156
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.953 GAP 11.76 AZP 89.99 TAL 163.12 TAP 73.59 RCA 93.47 APO 149.66 V2 35.083
 RC 179.506 GL 7.58 GP -14.30 ZAL 62.64 ZAP 163.82 ETS 301.93 ZAE 129.81 ETE 191.95 ZAC 158.50 ETC 180.86 CLP-172.36

PLANETOCENTRIC CONIC

C3 17.842 VHL 4.224 DLA 30.81 RAL 81.62 RAD 6567.7 VEL 11.799 PTH 2.09 VHP 8.079 DPA 6.16 RAP 64.87 ECC 1.2936
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.32 23 28 4 3834.74 -21.98 156.21 309.05 67.85 24 31 59 3234.7 -24.79 148.47
 102.68 2 54 13 3184.29 -21.96 108.23 309.05 67.83 3 47 18 2584.3 -24.78 100.49
 77.32 23 28 4 3834.74 -21.98 156.21 309.05 67.85 24 31 59 3234.7 -24.79 148.47
 102.68 2 54 13 3184.29 -21.96 108.23 309.05 67.83 3 47 18 2584.3 -24.78 100.49
 110.00 5 36 46 2676.97 -32.13 73.14 312.59 77.65 6 21 23 2077.0 -33.50 64.18
 110.00 1 48 38 3390.06 -12.50 118.75 303.98 57.92 2 45 8 2790.1 -16.65 112.10

DIFFERENTIAL CORRECTIONS

TOE .6828 TRA 2.3731 TC3-5.0964 BAU 1.2162
 ROE .3263 RRA .1818 RC3 -.1588 FAU .02582
 FDE .1057 FRA 1.1154 FC3-1.2528 BSP 18724
 BOE .7568 BRA 2.3800 BC3 5.0988 FSP -602

MID-COURSE EXECUTION ACCURACY

SGT 5782.8 SGR 544.4 SG3 178.0
 RRT .6556 RRF .6343 RTF .9479
 SGB 5808.3 R23 .0129 R13 .9479
 SG1 5793.8 SG2 410.3 THA 3.55

ORBIT DETERMINATION ACCURACY

ST 1462.4 SR 450.9 SS 382.9
 CRT .7693 CRS -.4412 CST -.9114
 LSA 1543.3 MSA 326.3 SSA 19.4
 EL1 1504.5 EL2 280.0 ALF 13.83

LAUNCH DATE FEB 14 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 556.060

RL 147.75 LAL .00 LOL 145.13 VL 26.508 GAL 5.53 AZL 88.97 MCA 273.69 SMA 121.33 ECC .23717 INC 1.0286 V1 30.156
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.937 GAP 12.20 AZP 89.93 TAL 161.55 TAP 75.23 RCA 92.56 APO 150.11 V2 35.095
 RC 181.455 GL 6.18 GP -13.86 ZAL 59.75 ZAP 164.61 ETS 299.78 ZAE 129.86 ETE 191.60 ZAC 160.74 ETC 179.93 CLP-173.24

PLANETOCENTRIC CONIC

C3 19.379 VHL 4.402 DLA 29.54 RAL 84.94 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 8.333 DPA 7.10 RAP 66.99 ECC 1.3189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.21 0 14 21 3761.33 -20.64 150.16 313.32 68.38 1 17 3 3161.3 -23.39 142.48
 98.79 2 38 18 3296.50 -20.62 116.02 313.31 68.37 3 33 15 2696.5 -23.38 108.33
 100.00 3 26 4 3143.67 -23.77 105.93 314.56 71.32 4 18 28 2543.7 -26.10 97.90
 100.00 2 9 17 3389.40 -17.55 121.52 311.93 65.41 3 5 46 2789.4 -20.72 114.16
 110.00 6 9 18 2632.14 -32.73 69.79 317.20 79.55 6 53 10 2032.1 -33.83 60.72
 110.00 1 42 32 3473.69 -9.43 123.29 307.34 56.99 2 40 26 2873.7 -13.71 116.80

DIFFERENTIAL CORRECTIONS

TOE .5405 TRA 2.6790 TC3-4.7090 BAU 1.2206
 ROE .3304 RRA .1984 RC3 -.1430 FAU .02392
 FDE .0498 FRA 1.1686 FC3-1.0684 BSP 18870
 BOE .6335 BRA 2.6863 BC3 4.7112 FSP -584

MID-COURSE EXECUTION ACCURACY

SGT 5809.2 SGR 537.4 SG3 171.6
 RRT .6451 RRF .6231 RTF .9492
 SGB 5834.0 R23 .0102 R13 .9492
 SG1 5819.6 SG2 409.9 THA 3.43

ORBIT DETERMINATION ACCURACY

ST 1398.6 SR 439.1 SS 381.0
 CRT .6676 CRS -.3213 CST -.9183
 LSA 1471.5 MSA 358.2 SSA 18.3
 EL1 1430.6 EL2 319.6 ALF 12.47

LAUNCH DATE FEB 14 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 561.494

RL 147.75 LAL .00 LOL 145.13 VL 26.469 GAL 6.17 AZL 89.15 MCA 276.90 SMA 121.10 ECC .24375 INC .8494 V1 30.156
 RP 107.94 LAP -.84 LOP 62.03 VP 36.921 GAP 12.68 AZP 89.90 TAL 159.99 TAP 76.89 RCA 91.58 APO 150.62 V2 35.108
 RC 183.384 GL 4.86 GP -13.45 ZAL 56.98 ZAP 165.34 ETS 297.35 ZAE 129.90 ETE 191.29 ZAC 162.98 ETC 178.76 CLP-174.12

PLANETOCENTRIC CONIC

C3 21.199 VHL 4.604 DLA 28.29 RAL 88.05 RAD 6567.9 VEL 11.941 PTH 2.12 VHP 8.605 DPA 7.99 RAP 69.15 ECC 1.3489
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 0 3517.08 -20.09 132.00 317.86 69.62 2 47 38 2917.1 -22.69 124.29
 90.00 1 28 30 3583.58 -18.46 136.20 317.19 68.14 2 28 13 2983.6 -21.27 128.65
 100.00 4 22 3 3023.53 -26.14 97.80 319.96 74.97 5 12 27 2423.5 -27.95 89.46
 100.00 1 38 8 3552.36 -12.69 131.17 314.45 62.71 2 37 21 2952.4 -16.24 124.19
 110.00 6 38 14 2597.29 -33.13 67.14 321.66 81.07 7 21 31 1997.3 -34.01 58.02
 110.00 1 38 27 3551.36 -6.53 127.42 310.78 56.37 2 37 39 2951.4 -10.90 121.06

DIFFERENTIAL CORRECTIONS

TOE .3928 TRA 3.0015 TC3-4.3118 BAU 1.2226
 ROE .3353 RRA .2154 RC3 -.1277 FAU .02207
 FDE -.0023 FRA 1.2214 FC3 -.9013 BSP 18997
 BOE .5164 BRA 3.0092 BC3 4.3137 FSP -565

MID-COURSE EXECUTION ACCURACY

SGT 5830.7 SGR 529.7 SG3 165.5
 RRT .6353 RRF .6129 RTF .9506
 SGB 5854.7 R23 .0079 R13 .9506
 SG1 5840.5 SG2 408.4 THA 3.32

ORBIT DETERMINATION ACCURACY

ST 1368.4 SR 427.1 SS 385.5
 CRT .5485 CRS -.2085 CST -.9311
 LSA 1434.1 MSA 382.6 SSA 17.3
 EL1 1389.7 EL2 351.7 ALF 10.39

LAUNCH DATE FEB 14 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 566.864

RL 147.75 LAL .00 LOL 145.13 VL 26.431 GAL 6.85 AZL 89.33 MCA 280.12 SMA 120.88 ECC .25090 INC .6676 V1 30.156
 RP 107.90 LAP -.66 LOP 65.24 VP 36.905 GAP 13.19 AZP 89.88 TAL 158.45 TAP 78.57 RCA 90.55 APO 151.21 V2 35.120
 RC 185.291 GL 3.63 GP -13.08 ZAL 54.35 ZAP 166.01 ETS 294.62 ZAE 129.92 ETE 190.99 ZAC 165.22 ETC 177.25 CLP-175.00

PLANETOCENTRIC CONIC

C3 23.342 VHL 4.831 DLA 27.07 RAL 90.97 RAD 6567.9 VEL 12.030 PTH 2.15 VHP 8.899 DPA 8.80 RAP 71.33 ECC 1.3842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 5 3332.94 -23.98 119.90 323.81 74.47 3 59 38 2732.9 -25.88 111.75
 90.00 0 36 42 3814.40 -12.08 150.13 319.10 64.19 1 40 16 3214.4 -15.45 143.08
 100.00 5 0 25 2957.88 -27.22 93.21 324.72 77.15 5 49 43 2357.9 -28.72 84.73
 100.00 1 23 2 3664.69 -9.10 137.58 317.55 61.40 2 24 7 3064.7 -12.85 130.80
 110.00 7 4 18 2570.24 -33.40 65.08 326.02 82.27 7 47 8 1970.2 -34.11 55.91
 110.00 1 35 39 3625.10 -3.73 131.30 314.26 56.00 2 36 4 3025.1 -8.17 125.03

DIFFERENTIAL CORRECTIONS

TOE .2397 TRA 3.3422 TC3-3.9138 BAU 1.2219
 ROE .3409 RRA .2329 RC3 -.1129 FAU .02027
 FDE -.0512 FRA 1.2747 FC3 -.7517 BSP 19105
 BOE .4168 BRA 3.3503 BC3 3.9154 FSP -547

MID-COURSE EXECUTION ACCURACY

SGT 5847.7 SGR 521.1 SG3 159.6
 RRT .6261 RRF .6037 RTF .9521
 SGB 5870.9 R23 .0060 R13 .9521
 SG1 5856.8 SG2 405.7 THA 3.21

ORBIT DETERMINATION ACCURACY

ST 1370.0 SR 414.9 SS 394.7
 CRT .4215 CRS -.1075 CST -.9459
 LSA 1430.7 MSA 396.8 SSA 16.4
 EL1 1382.0 EL2 373.0 ALF 7.85

LAUNCH DATE FEB 14 1969

FLIGHT TIME 198.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 572.159

RL 147.75 LAL .00 LOL 145.13 VL 26.393 GAL 7.58 AZL 89.52 MCA 283.33 SMA 120.66 ECC .25869 INC .4820 VI 30.156
 RP 107.87 LAP -.47 LOP 68.46 VP 36.889 GAP 13.73 AZP 89.89 TAL 156.94 TAP 80.27 RCA 89.44 APO 151.87 V2 35.132
 RC 187.175 GL 2.48 GP -12.74 ZAL 51.85 ZAP 166.62 ETS 291.57 ZAE 129.94 ETE 190.72 ZAC 167.44 ETC 175.20 CLP-175.88

PLANETOCENTRIC CONIC

C3 25.860 VHL 5.085 DLA 25.88 RAL 93.69 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 9.215 DPA 9.56 RAP 73.54 ECC 1.4256
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 6 3260.47 -25.21 114.95 328.59 76.66 4 38 26 2660.5 -26.80 106.64
 90.00 0 18 25 3937.21 -8.34 157.22 322.12 62.84 1 24 2 3337.2 -11.92 150.36
 100.00 5 31 58 2912.70 -27.87 90.01 329.24 78.72 6 20 31 2312.7 -29.14 81.44
 100.00 1 13 14 3760.20 -5.95 142.92 320.82 60.65 2 15 54 3160.2 -9.81 136.26
 110.00 7 27 59 2549.71 -33.58 63.50 330.30 83.18 8 10 29 1949.7 -34.16 54.31
 110.00 1 33 42 3695.96 -1.03 135.00 317.77 55.83 2 35 18 3096.0 -5.50 128.78

DIFFERENTIAL CORRECTIONS

TDE .0842 TRA 3.7050 TC3-3.5181 BAU 1.2168
 RDE .3475 RRA .2507 RC3 -.0985 FAU .01847
 FDE -.0958 FRA 1.3296 FC3 -.6183 BSP 19134
 BDE .3575 BRA 3.7135 BC3 3.5195 FSP -527

MID-COURSE EXECUTION ACCURACY

SGT 5860.1 SGR 511.8 SG3 154.1
 RRT .6177 RRF .5956 RTF .9537
 SGB 5882.4 R23 .0048 R13 .9537
 SG1 5868.6 SG2 401.9 THA 3.10

ORBIT DETERMINATION ACCURACY

ST 1399.3 SR 402.7 SS 407.2
 CRT .2992 CRS -.0235 CST -.9601
 LSA 1457.9 MSA 400.4 SSA 15.5
 EL1 1404.9 EL2 382.7 ALF 5.32

LAUNCH DATE FEB 14 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 577.367

RL 147.75 LAL .00 LOL 145.13 VL 26.355 GAL 8.34 AZL 89.71 MCA 286.55 SMA 120.44 ECC .26720 INC .2912 VI 30.156
 RP 107.83 LAP -.28 LOP 71.68 VP 36.873 GAP 14.31 AZP 89.92 TAL 155.45 TAP 82.00 RCA 88.26 APO 152.62 V2 35.144
 RC 189.037 GL 1.42 GP -12.42 ZAL 49.48 ZAP 167.17 ETS 288.18 ZAE 129.93 ETE 190.47 ZAC 169.64 ETC 172.29 CLP-176.77

PLANETOCENTRIC CONIC

C3 28.811 VHL 5.368 DLA 24.74 RAL 96.23 RAD 6568.2 VEL 12.255 PTH 2.20 VHP 9.558 DPA 10.25 RAP 75.77 ECC 1.4742
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 58 3213.04 -25.91 111.66 333.08 78.16 5 9 31 2613.0 -27.29 103.26
 90.00 0 6 48 4038.38 -5.16 162.94 325.36 62.12 1 14 6 3438.4 -8.85 156.21
 100.00 5 59 14 2880.11 -28.28 87.68 333.60 79.88 6 47 14 2280.1 -29.38 79.05
 100.00 1 6 13 3846.54 -3.05 147.68 324.19 60.25 2 10 19 3246.5 -6.98 141.11
 110.00 7 49 35 2534.86 -33.69 62.36 334.50 83.85 8 31 49 1934.9 -34.18 53.15
 110.00 1 32 21 3764.56 1.60 138.58 321.30 55.85 2 35 6 3164.6 -2.90 132.38

DIFFERENTIAL CORRECTIONS

TDE -.0798 TRA 4.0855 TC3-3.1404 BAU 1.2100
 RDE .3545 RRA .2684 RC3 -.0852 FAU .01679
 FDE -.1391 FRA 1.3842 FC3 -.5045 BSP 19224
 BDE .3634 BRA 4.0943 BC3 3.1415 FSP -510

MID-COURSE EXECUTION ACCURACY

SGT 5867.6 SGR 501.1 SG3 148.7
 RRT .6092 RRF .5874 RTF .9556
 SGB 5889.0 R23 .0033 R13 .9556
 SG1 5875.6 SG2 396.8 THA 2.99

ORBIT DETERMINATION ACCURACY

ST 1446.6 SR 390.1 SS 421.5
 CRT .1850 CRS .0499 CST -.9716
 LSA 1505.2 MSA 395.7 SSA 14.8
 EL1 1448.5 EL2 382.8 ALF 3.07

LAUNCH DATE FEB 14 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 582.474

RL 147.75 LAL .00 LOL 145.13 VL 26.318 GAL 9.17 AZL 89.91 MCA 289.78 SMA 120.22 ECC .27651 INC .0933 VI 30.156
 RP 107.79 LAP -.09 LOP 74.90 VP 36.858 GAP 14.94 AZP 89.97 TAL 153.99 TAP 83.76 RCA 86.98 APO 153.47 V2 35.155
 RC 190.875 GL .43 GP -12.14 ZAL 47.27 ZAP 167.64 ETS 284.44 ZAE 129.91 ETE 190.23 ZAC 171.78 ETC 167.84 CLP-177.67

PLANETOCENTRIC CONIC

C3 32.270 VHL 5.681 DLA 23.64 RAL 98.59 RAD 6568.3 VEL 12.395 PTH 2.24 VHP 9.931 DPA 10.88 RAP 78.01 ECC 1.5311
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 5 3179.85 -26.35 109.33 337.41 79.25 5 36 5 2579.8 -27.57 100.87
 90.00 23 54 33 4128.47 -2.27 167.99 328.70 61.77 25 3 21 3528.5 -6.03 161.33
 100.00 6 23 19 2856.68 -28.55 85.99 337.85 80.73 7 10 55 2256.7 -29.53 77.32
 100.00 1 0 56 3926.87 -.32 152.10 327.62 60.11 2 6 23 3326.9 -4.30 145.56
 110.00 8 9 19 2525.05 -33.76 61.60 338.65 84.29 8 51 24 1925.1 -34.18 52.38
 110.00 1 31 26 3831.27 4.14 142.07 324.83 56.04 2 35 17 3231.3 -3.35 135.86

DIFFERENTIAL CORRECTIONS

TDE -.2498 TRA 4.4892 TC3-2.7796 BAU 1.1996
 RDE .3621 RRA .2860 RC3 -.0728 FAU .01515
 FDE -.1800 FRA 1.4404 FC3 -.4065 BSP 19301
 BDE .4399 BRA 4.4982 BC3 2.7805 FSP -493

MID-COURSE EXECUTION ACCURACY

SGT 5870.7 SGR 489.2 SG3 143.6
 RRT .6007 RRF .5796 RTF .9577
 SGB 5891.1 R23 .0022 R13 .9577
 SG1 5878.1 SG2 390.6 THA 2.88

ORBIT DETERMINATION ACCURACY

ST 1507.0 SR 377.3 SS 437.1
 CRT .0849 CRS .1111 CST -.9802
 LSA 1567.1 MSA 385.1 SSA 14.1
 EL1 1507.4 EL2 375.8 ALF 1.30

LAUNCH DATE FEB 14 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 587.459

RL 147.75 LAL .00 LOL 145.13 VL 26.281 GAL 10.05 AZL 90.11 MCA 293.00 SMA 120.02 ECC .28672 INC .1108 VI 30.156
 RP 107.76 LAP .10 LOP 78.13 VP 36.842 GAP 15.62 AZP 90.04 TAL 152.57 TAP 85.57 RCA 85.60 APO 154.43 V2 35.166
 RC 192.690 GL -.48 GP -11.87 ZAL 45.19 ZAP 168.04 ETS 280.34 ZAE 129.87 ETE 190.01 ZAC 173.84 ETC 160.37 CLP-178.58

PLANETOCENTRIC CONIC

C3 36.326 VHL 6.027 DLA 22.59 RAL 100.77 RAD 6568.4 VEL 12.558 PTH 2.28 VHP 10.337 DPA 11.45 RAP 80.27 ECC 1.5978
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 49 3156.59 -26.64 107.68 341.62 80.03 5 59 25 2556.6 -27.75 99.19
 90.00 23 48 14 4211.50 .41 172.62 332.09 61.69 24 58 26 3611.5 -3.38 165.99
 100.00 6 44 51 2840.50 -28.72 84.81 342.01 81.32 7 32 11 2240.5 -29.62 76.13
 100.00 0 56 50 4002.81 2.25 156.26 331.07 60.18 2 3 32 3402.8 -1.73 149.74
 110.00 8 27 22 2519.77 -33.80 61.19 342.75 84.53 9 9 22 1919.8 -34.18 51.97
 110.00 1 30 48 3896.31 6.60 145.49 328.37 56.38 2 35 44 3296.3 2.14 139.25

DIFFERENTIAL CORRECTIONS

TDE -.4254 TRA 4.9185 TC3-2.4381 BAU 1.1844
 RDE .3704 RRA .3031 RC3 -.0612 FAU .01355
 FDE -.2187 FRA 1.4989 FC3 -.3230 BSP 19359
 BDE .5641 BRA 4.9279 BC3 2.4389 FSP -477

MID-COURSE EXECUTION ACCURACY

SGT 5869.4 SGR 476.3 SG3 138.7
 RRT .5921 RRF .5719 RTF .9600
 SGB 5888.7 R23 .0013 R13 .9600
 SG1 5876.2 SG2 383.4 THA 2.76

ORBIT DETERMINATION ACCURACY

ST 1574.7 SR 364.3 SS 453.4
 CRT .0001 CRS .1612 CST -.9864
 LSA 1637.1 MSA 371.1 SSA 13.6
 EL1 1574.7 EL2 364.3 ALF .00

LAUNCH DATE FEB 14 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 26.245 GAL 11.00 AZL 90.33 HCA 296.23 SMA 119.81 ECC .29795 INC .3269 V1 30.156
 RP 107.73 LAP .29 LOP 81.36 VP 36.826 GAP 16.37 AZP 90.14 TAL 151.19 TAP 87.42 RCA 84.11 APO 155.51 V2 35.177
 RC 194.480 GL -1.32 GP -11.63 ZAL 43.26 ZAP 168.36 ETS 275.88 ZAE 129.80 ETE 189.79 ZAC 175.68 ETC 146.12 CLP -179.51

PLANETOCENTRIC CONIC
 C3 41.093 VHL 6.410 DLA 21.60 RAL 102.79 RAD 6568.6 VEL 12.746 PTH 2.32 VHP 10.781 DPA 11.96 RAP 82.52 ECC 1.6763
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 53 3140.97 -26.82 106.58 345.73 80.55 6 20 14 2541.0 -27.85 98.06
 90.00 23 43 16 4289.41 2.92 176.97 335.52 61.82 24 54 45 3689.4 -1.87 170.34
 100.00 7 4 14 2830.33 -28.82 84.08 346.09 81.70 7 51 24 2230.3 -29.67 75.37
 100.00 0 53 32 4075.28 4.70 160.25 334.54 60.44 2 1 28 3475.3 .72 153.72
 110.00 8 43 53 2518.56 -33.80 61.10 346.79 84.59 9 25 51 1918.6 -34.18 51.87
 110.00 1 30 23 3959.82 8.98 148.87 331.91 56.88 2 36 22 3359.8 4.56 142.58

DIFFERENTIAL CORRECTIONS
 TOE -.6040 TRA 5.3795 TC3-2.1148 BAU 1.1622 SGT 5864.0 SGR 462.3 SG3 134.1 ST 1644.7 SR 351.5 SS 470.0
 ROE .3795 RRA .3198 RC3 -.0503 FAU .01193 RRT .5835 RRF .5646 RTF .9624 CRT -.0689 CRS .2008 CST -.9907
 FDE -.2545 FRA 1.5613 FC3 -.2514 BSP 19319 SGB 5882.2 R23 .0010 R13 .9624 LSA 1709.6 MSA 355.5 SSA 12.8
 BOE .7133 BRA 5.3890 BC3 2.1154 FSP -459 SGI 5870.2 SG2 375.1 THA 2.64 EL1 1644.9 EL2 350.6 ALF 179.12

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 26.210 GAL 12.02 AZL 90.56 HCA 299.45 SMA 119.61 ECC .31033 INC .5553 V1 30.156
 RP 107.70 LAP .48 LOP 84.58 VP 36.811 GAP 17.18 AZP 90.27 TAL 149.87 TAP 89.32 RCA 82.49 APO 156.73 V2 35.187
 RC 196.245 GL -2.08 GP -11.41 ZAL 41.48 ZAP 168.58 ETS 271.10 ZAE 129.71 ETE 189.58 ZAC 176.93 ETC 116.84 CLP 179.54

PLANETOCENTRIC CONIC
 C3 46.709 VHL 6.834 DLA 20.67 RAL 104.64 RAD 6568.7 VEL 12.964 PTH 2.36 VHP 11.268 DPA 12.42 RAP 84.77 ECC 1.7687
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 44 3131.57 -26.92 105.91 349.75 80.87 6 38 56 2531.6 -27.91 97.38
 90.00 23 39 13 4363.29 5.29 181.11 338.96 62.14 24 51 57 3763.3 1.52 174.46
 100.00 7 21 44 2825.26 -28.87 83.71 350.08 81.89 8 8 49 2225.3 -29.69 75.00
 100.00 0 50 51 4144.82 7.02 164.11 338.01 60.87 1 59 56 3544.8 3.08 157.54
 110.00 8 58 58 2521.01 -33.79 61.29 350.77 84.48 9 40 59 1921.0 -34.18 52.07
 110.00 1 30 5 4021.84 11.27 152.22 335.44 57.51 2 37 7 3421.8 6.91 145.84

DIFFERENTIAL CORRECTIONS
 TOE -.7945 TRA 5.8683 TC3-1.8189 BAU 1.1361 SGT 5854.2 SGR 446.9 SG3 129.6 ST 1713.9 SR 338.4 SS 487.1
 ROE .3890 RRA .3353 RC3 -.0406 FAU .01039 RRT .5735 RRF .5562 RTF .9651 CRT -.1292 CRS .2362 CST -.9937
 FDE -.2904 FRA 1.6259 FC3 -.1926 BSP 19379 SGB 5871.3 R23 .0006 R13 .9651 LSA 1781.6 MSA 338.9 SSA 12.2
 BOE .8846 BRA 5.8779 BC3 1.8194 FSP -444 SGI 5859.8 SG2 365.7 THA 2.52 EL1 1714.5 EL2 335.4 ALF 178.48

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 26.176 GAL 13.13 AZL 90.80 HCA 302.68 SMA 119.42 ECC .32402 INC .7988 V1 30.156
 RP 107.67 LAP .67 LOP 87.81 VP 36.795 GAP 18.07 AZP 90.43 TAL 148.61 TAP 91.30 RCA 80.72 APO 158.11 V2 35.196
 RC 197.986 GL -2.79 GP -11.20 ZAL 39.84 ZAP 168.71 ETS 266.02 ZAE 129.58 ETE 189.38 ZAC 176.82 ETC 75.71 CLP 178.56

PLANETOCENTRIC CONIC
 C3 53.348 VHL 7.304 DLA 19.79 RAL 106.34 RAD 6568.9 VEL 13.218 PTH 2.41 VHP 11.806 DPA 12.82 RAP 87.01 ECC 1.8780
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 40 3127.34 -26.97 105.60 353.67 81.02 6 55 47 2527.3 -27.93 97.07
 90.00 23 35 52 4433.77 7.51 185.10 342.39 62.62 24 49 45 3833.8 3.78 178.40
 100.00 7 37 33 2824.59 -28.88 83.66 354.00 81.91 8 24 37 2224.6 -29.69 74.95
 100.00 0 48 36 4211.74 9.22 167.86 341.48 61.44 1 58 47 3611.7 5.33 161.23
 110.00 9 12 45 2526.75 -33.75 61.73 354.69 84.22 9 54 51 1926.8 -34.18 52.51
 110.00 1 29 53 4082.35 13.46 155.54 338.97 58.28 2 37 55 3482.3 9.17 149.07

DIFFERENTIAL CORRECTIONS
 TOE -.9922 TRA 6.3921 TC3-1.5446 BAU 1.1019 SGT 5839.0 SGR 430.2 SG3 125.4 ST 1779.4 SR 325.2 SS 504.7
 ROE .3993 RRA .3494 RC3 -.0319 FAU .00885 RRT .5626 RRF .5470 RTF .9680 CRT -.1797 CRS .2661 CST -.9958
 FDE -.3251 FRA 1.6952 FC3 -.1436 BSP 19400 SGB 5854.9 R23 .0004 R13 .9680 LSA 1850.0 MSA 322.2 SSA 11.7
 BOE 1.0695 BRA 6.4017 BC3 1.5450 FSP -430 SGI 5844.1 SG2 355.4 THA 2.38 EL1 1780.4 EL2 319.7 ALF 178.06

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC
 RL 147.75 LAL .00 LOL 145.13 VL 26.142 GAL 14.34 AZL 91.06 HCA 305.91 SMA 119.23 ECC .33921 INC 1.0607 V1 30.156
 RP 107.64 LAP .86 LOP 91.05 VP 36.780 GAP 19.06 AZP 90.62 TAL 147.43 TAP 93.35 RCA 78.79 APO 159.67 V2 35.205
 RC 199.701 GL -3.44 GP -11.01 ZAL 38.34 ZAP 168.72 ETS 260.71 ZAE 129.41 ETE 189.18 ZAC 175.51 ETC 49.40 CLP 177.54

PLANETOCENTRIC CONIC
 C3 61.231 VHL 7.825 DLA 18.96 RAL 107.89 RAD 6569.1 VEL 13.512 PTH 2.47 VHP 12.402 DPA 13.17 RAP 89.23 ECC 2.0077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 52 3127.50 -26.97 105.62 357.50 81.01 7 10 59 2527.5 -27.93 97.08
 90.00 23 33 0 4501.20 9.60 188.95 345.81 63.23 24 48 1 3901.2 5.93 182.19
 100.00 7 51 49 2827.73 -28.85 83.89 357.82 81.80 8 38 57 2227.7 -29.68 75.18
 100.00 0 46 39 4276.20 11.29 171.52 344.92 62.14 1 57 55 3676.2 7.47 164.81
 110.00 9 25 16 2535.40 -33.69 62.40 358.53 83.83 10 7 31 1935.4 -34.18 53.19
 110.00 1 29 42 4141.29 15.55 158.83 342.46 59.17 2 38 44 3541.3 11.34 152.25

DIFFERENTIAL CORRECTIONS
 TOE -1.1996 TRA 6.9560 TC3-1.2936 BAU 1.0591 SGT 5820.1 SGR 412.3 SG3 121.3 ST 1840.0 SR 311.9 SS 522.9
 ROE .4103 RRA .3615 RC3 -.0241 FAU .00729 RRT .5500 RRF .5363 RTF .9709 CRT -.2232 CRS .2923 CST -.9972
 FDE -.3592 FRA 1.7697 FC3 -.1031 BSP 19405 SGB 5834.7 R23 .0005 R13 .9710 LSA 1913.8 MSA 305.6 SSA 11.1
 BOE 1.2678 BRA 6.9653 BC3 1.2938 FSP -416 SGI 5824.5 SG2 344.1 THA 2.24 EL1 1841.3 EL2 303.8 ALF 177.77

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 14 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 609.556

RL 147.75 LAL .00 LOL 145.13 VL 26.109 GAL 15.67 AZL 91.35 MCA 309.14 SMA 119.05 ECC .35613 INC 1.3451 V1 30.156
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.765 GAP 20.15 AZP 90.85 TAL 146.35 TAP 95.49 RCA 76.65 APO 161.44 V2 35.213
 RC 201.391 GL -4.03 GP -10.83 ZAL 36.98 ZAP 168.62 ETS 255.24 ZAE 129.19 ETE 188.98 ZAC 173.73 ETC 36.68 CLP 176.48

PLANETOCENTRIC CONIC

C3 70.640 VHL 8.405 DLA 18.20 RAL 109.29 RAD 6569.4 VEL 13.856 PTH 2.53 VHP 13.066 DPA 13.47 RAP 91.41 ECC 2.1626
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 30 3131.40 -26.92 105.89 1.21 80.88 7 24 41 2531.4 -27.91 97.37
 90.00 23 30 29 4565.74 11.56 192.68 349.18 63.97 24 46 35 3965.7 7.96 185.85
 100.00 8 4 40 2834.16 -28.78 84.35 1.53 81.56 8 51 54 2234.2 -29.65 75.66
 100.00 0 44 56 4338.22 13.24 175.10 348.32 62.95 1 57 14 3738.2 9.51 168.29
 110.00 9 36 35 2546.61 -33.60 63.26 2.28 83.32 10 19 1 1946.6 -34.16 54.06
 110.00 1 29 31 4198.54 17.51 162.10 345.92 60.16 2 39 29 3598.5 13.41 155.39

DIFFERENTIAL CORRECTIONS

TDE-1.4132 TRA 7.5691 TC3-1.0621 BAU 1.0032
 RDE .4223 RRA .3713 RC3 -.0171 FAU .00564
 FDE -.3921 FRA 1.8520 FC3 -.0692 BSP 19313
 BDE 1.4750 BRA 7.5782 BC3 1.0623 FSP -400

MID-COURSE EXECUTION ACCURACY

SGT 5798.1 SGR 393.3 SG3 117.6
 RRT .5355 RRF .5241 RTF .9740
 SGB 5811.4 R23 .0010 R13 .9740
 SG1 5801.9 SG2 331.9 THA 2.09

ORBIT DETERMINATION ACCURACY

ST 1893.7 SR 298.8 SS 541.9
 CRT -.2599 CRS .3144 CST -.9982
 LSA 1971.1 MSA 289.5 SSA 10.6
 EL1 1895.4 EL2 288.3 ALF 177.60

LAUNCH DATE FEB 14 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 613.080

RL 147.75 LAL .00 LOL 145.13 VL 26.078 GAL 17.13 AZL 91.66 MCA 312.38 SMA 118.87 ECC .37503 INC 1.6570 V1 30.156
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.750 GAP 21.38 AZP 91.12 TAL 145.37 TAP 97.75 RCA 74.29 APO 163.45 V2 35.221
 RC 203.056 GL -4.57 GP -10.67 ZAL 35.78 ZAP 168.38 ETS 249.69 ZAE 128.92 ETE 188.78 ZAC 171.84 ETC 29.91 CLP 175.37

PLANETOCENTRIC CONIC

C3 81.940 VHL 9.052 DLA 17.49 RAL 110.53 RAD 6569.6 VEL 14.258 PTH 2.60 VHP 13.809 DPA 13.71 RAP 93.56 ECC 2.3485
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 38 3138.51 -26.85 106.40 4.79 80.64 7 36 57 2538.5 -27.87 97.88
 90.00 23 28 14 4627.43 13.37 196.30 352.50 64.81 24 45 21 4027.4 9.87 189.38
 100.00 8 16 9 2843.41 -28.69 85.03 5.12 81.22 9 3 32 2243.4 -29.60 76.34
 100.00 0 43 20 4397.76 15.05 178.59 351.66 63.87 1 56 38 3797.8 11.42 171.68
 110.00 9 46 44 2560.02 -33.49 64.29 5.91 82.72 10 29 24 1960.0 -34.14 55.11
 110.00 1 29 15 4253.94 19.36 165.34 349.32 61.26 2 40 9 3653.9 15.37 158.48

DIFFERENTIAL CORRECTIONS

TDE-1.6429 TRA 8.2285 TC3 -.8548 BAU .9365
 RDE .4352 RRA .3775 RC3 -.0113 FAU .00397
 FDE -.4266 FRA 1.9408 FC3 -.0420 BSP 19319
 BDE 1.6996 BRA 8.2372 BC3 .8549 FSP -388

MID-COURSE EXECUTION ACCURACY

SGT 5770.3 SGR 372.9 SG3 113.9
 RRT .5174 RRF .5083 RTF .9771
 SGB 5782.4 R23 .0014 R13 .9771
 SG1 5773.5 SG2 319.0 THA 1.92

ORBIT DETERMINATION ACCURACY

ST 1941.0 SR 285.6 SS 562.4
 CRT -.2947 CRS .3368 CST -.9988
 LSA 2022.5 MSA 273.4 SSA 10.0
 EL1 1942.8 EL2 272.6 ALF 177.47

LAUNCH DATE FEB 14 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 616.128

RL 147.75 LAL .00 LOL 145.13 VL 26.048 GAL 18.75 AZL 92.00 MCA 315.61 SMA 118.71 ECC .39624 INC 2.0028 V1 30.156
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.735 GAP 22.75 AZP 91.43 TAL 144.53 TAP 100.14 RCA 71.67 APO 165.74 V2 35.228
 RC 204.697 GL -5.06 GP -10.51 ZAL 34.73 ZAP 168.01 ETS 244.14 ZAE 128.58 ETE 188.56 ZAC 169.92 ETC 25.85 CLP 174.20

PLANETOCENTRIC CONIC

C3 95.604 VHL 9.778 DLA 16.84 RAL 111.61 RAD 6569.9 VEL 14.729 PTH 2.66 VHP 14.645 DPA 13.92 RAP 95.64 ECC 2.5734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 55 22 3148.35 -26.74 107.10 8.22 80.30 7 47 50 2548.3 -27.80 98.60
 90.00 23 26 9 4686.18 15.05 199.80 355.72 65.73 24 4 15 4086.2 11.64 192.78
 100.00 8 26 18 2855.09 -28.56 85.87 8.56 80.79 9 13 53 2255.1 -29.54 77.20
 100.00 0 41 49 4454.67 16.73 181.98 354.91 64.86 1 56 4 3854.7 13.20 174.96
 110.00 9 55 43 2575.32 -33.35 65.47 9.40 82.04 10 38 38 1975.3 -34.09 56.30
 110.00 1 28 54 4307.21 21.07 168.52 352.64 62.44 2 40 41 3707.2 17.21 161.52

DIFFERENTIAL CORRECTIONS

TDE-1.8851 TRA 8.9472 TC3 -.6671 BAU .8526
 RDE .4495 RRA .3796 RC3 -.0065 FAU .00217
 FDE -.4616 FRA 2.0395 FC3 -.0196 BSP 19290
 BDE 1.9379 BRA 8.9552 BC3 .6671 FSP -376

MID-COURSE EXECUTION ACCURACY

SGT 5738.4 SGR 351.5 SG3 110.4
 RRT .4951 RRF .4884 RTF .9801
 SGB 5749.1 R23 .0020 R13 .9801
 SG1 5741.0 SG2 305.2 THA 1.74

ORBIT DETERMINATION ACCURACY

ST 1980.5 SR 272.5 SS 584.6
 CRT -.3268 CRS .3584 CST -.9993
 LSA 2066.9 MSA 257.7 SSA 9.5
 EL1 1982.5 EL2 257.2 ALF 177.38

LAUNCH DATE FEB 14 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 618.576

RL 147.75 LAL .00 LOL 145.13 VL 26.020 GAL 20.56 AZL 92.39 MCA 318.84 SMA 118.55 ECC .42013 INC 2.3912 V1 30.156
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.721 GAP 24.30 AZP 91.80 TAL 143.85 TAP 102.69 RCA 68.74 APO 168.36 V2 35.235
 RC 206.313 GL -5.51 GP -10.37 ZAL 33.85 ZAP 167.48 ETS 238.69 ZAE 128.15 ETE 188.34 ZAC 168.05 ETC 23.22 CLP 172.94

PLANETOCENTRIC CONIC

C3 112.259 VHL 10.595 DLA 16.26 RAL 112.52 RAD 6570.1 VEL 15.284 PTH 2.74 VHP 15.591 DPA 14.08 RAP 97.66 ECC 2.8475
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 40 3160.50 -26.59 107.96 11.46 79.90 7 57 21 2560.5 -27.72 99.47
 90.00 23 24 8 4741.81 16.57 203.17 358.82 66.71 24 43 10 4141.8 13.28 196.04
 100.00 8 35 7 2868.82 -28.41 86.86 11.82 80.29 9 22 56 2268.8 -29.46 78.22
 100.00 0 40 19 4508.72 18.26 185.26 358.04 65.92 1 55 27 3908.7 14.86 178.13
 110.00 10 3 32 2592.18 -33.19 66.76 12.72 81.29 10 46 44 1992.2 -34.03 57.62
 110.00 1 28 23 4358.12 22.64 171.64 355.84 63.68 2 41 1 3758.1 18.92 164.48

DIFFERENTIAL CORRECTIONS

TDE-2.1414 TRA 9.7323 TC3 -.4985 BAU .7482
 RDE .4654 RRA .3761 RC3 -.0026 FAU .00017
 FDE -.4978 FRA 2.1495 FC3 -.0013 BSP 19252
 BDE 2.1914 BRA 9.7396 BC3 .4985 FSP -365

MID-COURSE EXECUTION ACCURACY

SGT 5701.9 SGR 329.0 SG3 107.2
 RRT .4669 RRF .4626 RTF .9830
 SGB 5711.4 R23 .0028 R13 .9831
 SG1 5703.9 SG2 290.8 THA 1.55

ORBIT DETERMINATION ACCURACY

ST 2011.7 SR 259.6 SS 609.1
 CRT -.3579 CRS .3806 CST -.9996
 LSA 2103.9 MSA 242.4 SSA 9.0
 EL1 2013.9 EL2 242.1 ALF 177.32

LAUNCH DATE FEB 15 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 26 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.418 GAL -6.50 AZL 88.28 HCA 80.35 SMA 120.85 ECC .24865 INC 1.7182 V1 30.150
 RP 108.27 LAP 1.69 LOP 226.49 VP 36.787 GAP -13.12 AZP 89.71 TAL 200.57 TAP 280.92 RCA 90.80 APO 150.89 V2 35.000
 RC 48.883 GL 8.71 GP 13.17 ZAL 129.88 ZAP 14.11 ETS 294.29 ZAE 149.41 ETE 11.77 ZAC 128.47 ETC 152.28 CLP -5.12

DISTANCE 182.070

PLANETOCENTRIC CONIC
 C3 27.022 VHL 5.198 OLA 14.20 RAL 11.01 RAD 6568.1 VEL 12.182 PTH 2.19 VHP 8.857 DPA 25.65 RAP 34.45 ECC 1.4447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 47 2745.17 -27.94 77.83 242.85 94.80 1 20 32 2145.2 -26.98 69.30
 90.00 16 16 17 4474.30 8.77 187.41 235.66 62.97 17 30 51 3874.3 5.08 180.67
 100.00 2 3 41 2458.48 -29.33 56.60 242.70 96.04 2 44 39 1858.5 -28.18 47.98
 100.00 17 30 4 4236.22 10.01 169.25 235.01 61.69 18 40 41 3636.2 6.15 162.58
 110.00 3 28 51 2192.01 -33.00 35.78 242.11 99.47 4 5 23 1592.0 -31.34 26.94
 110.00 18 21 24 4075.46 13.21 155.16 233.11 58.18 19 29 19 3475.5 8.91 148.70

DIFFERENTIAL CORRECTIONS
 TOE -.2412 TRA -.3655 TC3 .4789 BAW .1785
 RDE -.3510 RRA .1555 RC3 .1215 FAU .03487
 FDE .0439 FRA -.0933 FC3-1.1171 BSP 1983
 BOE .4259 BRA .3972 BC3 .4941 FSP -249

MID-COURSE EXECUTION ACCURACY
 SGT 700.9 SGR 443.7 SG3 100.9
 RRT .2968 RRF -.3556 RTF -.6686
 SGB 829.5 R23 -.0536 R13 -.6865
 SG1 719.6 SG2 412.7 THA 16.04

ORBIT DETERMINATION ACCURACY
 ST 294.0 SR 390.5 SS 51.7
 CRT .8387 CRS .7781 CST .4738
 LSA 471.8 MSA 135.3 SSA 27.1
 EL1 470.4 EL2 132.9 ALF 54.46

LAUNCH DATE FEB 15 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.627 GAL -6.49 AZL 88.46 HCA 83.55 SMA 122.08 ECC .23779 INC 1.5369 V1 30.150
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.924 GAP -12.16 AZP 89.83 TAL 201.89 TAP 285.44 RCA 93.05 APO 151.10 V2 34.987
 RC 50.327 GL 8.09 GP 14.01 ZAL 131.67 ZAP 15.85 ETS 301.34 ZAE 148.12 ETE 13.49 ZAC 128.74 ETC 151.21 CLP -7.48

DISTANCE 188.834

PLANETOCENTRIC CONIC
 C3 25.453 VHL 5.045 OLA 12.95 RAL 9.63 RAD 6568.0 VEL 12.117 PTH 2.17 VHP 8.332 DPA 26.74 RAP 34.93 ECC 1.4189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 17 2686.87 -27.54 73.61 239.76 96.87 1 25 4 2086.9 -26.30 65.17
 90.00 15 59 47 4502.97 9.66 189.05 233.29 63.25 17 14 50 3903.0 5.99 182.29
 100.00 2 8 20 2402.89 -28.86 52.53 239.57 98.14 2 48 23 1802.9 -27.44 44.02
 100.00 17 14 25 4262.18 10.84 170.72 232.67 61.97 18 25 27 3662.2 7.01 164.03
 110.00 3 31 42 2142.08 -32.38 32.01 238.86 101.61 4 7 24 1542.1 -30.44 23.33
 110.00 18 7 33 4095.76 13.94 156.28 230.85 58.47 19 15 49 3495.8 9.67 149.79

DIFFERENTIAL CORRECTIONS
 TOE -.2277 TRA -.3431 TC3 .5364 BAW .1899
 RDE -.3380 RRA .1598 RC3 .1544 FAU .03800
 FDE .0173 FRA -.1320 FC3-1.2926 BSP 2116
 BOE .4076 BRA .3785 BC3 .5582 FSP -287

MID-COURSE EXECUTION ACCURACY
 SGT 720.8 SGR 454.3 SG3 113.5
 RRT .3333 RRF -.4012 RTF -.6860
 SGB 852.0 R23 -.0620 R13 -.7073
 SG1 744.2 SG2 414.8 THA 17.43

ORBIT DETERMINATION ACCURACY
 ST 285.5 SR 388.0 SS 45.8
 CRT .8364 CRS .4180 CST .0106
 LSA 463.8 MSA 134.9 SSA 29.6
 EL1 463.6 EL2 131.0 ALF 55.21

LAUNCH DATE FEB 15 1969

FLIGHT TIME 74.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.814 GAL -6.50 AZL 88.64 HCA 86.74 SMA 123.21 ECC .22813 INC 1.3580 V1 30.150
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.047 GAP -11.25 AZP 89.92 TAL 203.23 TAP 289.97 RCA 95.10 APO 151.32 V2 34.974
 RC 51.881 GL 7.38 GP 14.94 ZAL 133.42 ZAP 17.88 ETS 307.08 ZAE 147.02 ETE 15.31 ZAC 128.85 ETC 150.12 CLP -9.93

DISTANCE 195.590

PLANETOCENTRIC CONIC
 C3 24.148 VHL 4.914 OLA 11.64 RAL 8.35 RAD 6568.0 VEL 12.063 PTH 2.16 VHP 7.839 DPA 27.88 RAP 35.29 ECC 1.3974
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 15 2629.61 -27.00 69.51 236.92 98.87 1 30 5 2029.6 -25.50 61.16
 90.00 15 43 33 4534.34 10.61 190.86 231.16 63.59 16 59 8 3934.3 6.98 184.06
 100.00 2 13 29 2348.26 -28.27 48.58 236.68 100.14 2 52 38 1748.3 -26.58 40.18
 100.00 16 59 0 4290.92 11.76 172.36 230.57 62.32 18 10 31 3690.9 7.96 165.63
 110.00 3 35 4 2093.01 -31.65 28.37 235.86 103.65 4 9 57 1493.0 -29.45 19.86
 110.00 17 53 55 4118.94 14.76 157.58 228.83 58.81 19 2 34 3518.9 10.52 151.04

DIFFERENTIAL CORRECTIONS
 TOE -.2148 TRA -.3232 TC3 .5888 BAW .2000
 RDE -.3250 RRA .1652 RC3 .1925 FAU .04148
 FDE -.0146 FRA -.1747 FC3-1.4871 BSP 2208
 BOE .3896 BRA .3630 BC3 .6194 FSP -329

MID-COURSE EXECUTION ACCURACY
 SGT 738.7 SGR 466.9 SG3 127.6
 RRT .3731 RRF -.4509 RTF -.6983
 SGB 873.9 R23 -.0730 R13 -.7241
 SG1 768.2 SG2 416.6 THA 19.08

ORBIT DETERMINATION ACCURACY
 ST 276.3 SR 383.5 SS 52.9
 CRT .8322 CRS -.0846 CST -.4961
 LSA 454.8 MSA 135.4 SSA 32.1
 EL1 454.7 EL2 129.2 ALF 55.93

LAUNCH DATE FEB 15 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.982 GAL -6.51 AZL 88.82 HCA 89.93 SMA 124.25 ECC .21960 INC 1.1804 V1 30.150
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.157 GAP -10.38 AZP 90.00 TAL 204.56 TAP 294.49 RCA 96.97 APO 151.54 V2 34.961
 RC 53.536 GL 6.60 GP 15.97 ZAL 135.10 ZAP 20.17 ETS 311.74 ZAE 146.10 ETE 17.28 ZAC 128.81 ETC 149.01 CLP -12.48

DISTANCE 202.334

PLANETOCENTRIC CONIC
 C3 23.065 VHL 4.803 OLA 10.29 RAL 7.17 RAD 6567.9 VEL 12.018 PTH 2.15 VHP 7.376 DPA 29.07 RAP 35.49 ECC 1.3796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 52 40 2573.60 -26.35 65.54 234.32 100.75 1 35 34 1973.6 -24.60 57.31
 90.00 15 27 45 4567.92 11.62 192.81 229.29 64.00 16 43 52 3967.9 8.03 185.97
 100.00 2 19 7 2294.79 -27.57 44.76 234.04 102.03 2 57 21 1694.8 -25.64 36.49
 100.00 16 43 59 4321.96 12.73 174.15 228.72 62.73 17 56 1 3722.0 8.98 167.38
 110.00 3 38 57 2044.97 -30.82 24.87 233.13 105.57 4 13 2 1445.0 -28.38 16.53
 110.00 17 40 38 4144.54 15.66 159.02 227.04 59.22 18 49 43 3544.5 11.46 152.43

DIFFERENTIAL CORRECTIONS
 TOE -.2008 TRA -.3049 TC3 .6366 BAW .2094
 RDE -.3114 RRA .1716 RC3 .2362 FAU .04535
 FDE -.0537 FRA -.2219 FC3-1.7020 BSP 2293
 BOE .3705 BRA .3499 BC3 .6790 FSP -377

MID-COURSE EXECUTION ACCURACY
 SGT 753.6 SGR 482.5 SG3 143.3
 RRT .4148 RRF -.5040 RTF -.7082
 SGB 894.8 R23 -.0856 R13 -.7400
 SG1 791.1 SG2 418.3 THA 21.00

ORBIT DETERMINATION ACCURACY
 ST 264.6 SR 376.8 SS 72.7
 CRT .8244 CRS -.4281 CST -.7746
 LSA 444.3 MSA 136.7 SSA 34.6
 EL1 442.4 EL2 127.5 ALF 56.82

LAUNCH DATE FEB 15 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 209.062

RL 147.78 LAL .00 LOL 146.14 VL 27.133 GAL -6.52 AZL 89.00 MCA 93.12 SMA 125.21 ECC .21208 INC 1.0029 V1 30.150
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.254 GAP -9.55 AZP 90.05 TAL 205.86 TAP 298.98 RCA 98.65 APO 151.76 V2 34.948
 RC 55.282 GL 5.75 GP 17.11 ZAL 136.69 ZAP 22.70 ETS 315.57 ZAE 145.36 ETE 19.45 ZAC 128.58 ETC 147.91 CLP -15.14

PLANETOCENTRIC CONIC

C3 22.167 VHL 4.708 DLA 8.91 RAL 6.11 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 6.945 DPA 30.31 RAP 35.53 ECC 1.3648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 31 2518.92 -25.60 61.71 231.98 102.53 1 41 30 1918.9 -23.62 53.60
 90.00 15 12 27 4603.28 12.67 194.88 227.67 64.46 16 29 10 4003.3 9.13 187.99
 100.00 2 25 12 2242.57 -26.78 41.08 231.67 103.81 3 2 34 1642.6 -24.61 32.95
 100.00 16 29 27 4354.87 13.75 176.07 227.12 63.19 17 42 2 3754.9 10.05 169.24
 110.00 3 43 20 1998.06 -29.92 21.52 230.68 107.37 4 16 38 1398.1 -27.25 13.34
 110.00 17 27 48 4172.14 16.61 160.59 225.51 59.69 18 37 20 3572.1 12.46 153.94

DIFFERENTIAL CORRECTIONS

TDE -.1857 TRA -.2881 TC3 .6788 BAU .2183
 ROE -.2968 RRA .1793 RC3 .2865 FAU .04966
 FOE -.1010 FRA -.2740 FC3-1.9394 BSP 2376
 BOE .3501 BRA .3394 BC3 .7368 FSP -430

MID-COURSE EXECUTION ACCURACY

SGT 765.3 SGR 502.0 SG3 160.8
 RRT .4573 RRF -.5596 RTF -.7160
 SGB 915.2 R23 -.0997 R13 -.7555
 SG1 813.1 SG2 420.2 THA 23.24

ORBIT DETERMINATION ACCURACY

ST 250.6 SR 367.3 SS 101.0
 CRT .8120 CRS -.6019 CST -.8889
 LSA 432.7 MSA 139.0 SSA 37.0
 EL1 426.4 EL2 126.0 ALF 57.88

LAUNCH DATE FEB 15 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 215.772

RL 147.78 LAL .00 LOL 146.14 VL 27.266 GAL -6.54 AZL 89.18 MCA 96.30 SMA 126.07 ECC .20549 INC .8245 V1 30.150
 RP 108.47 LAP .82 LOP 242.44 VP 37.340 GAP -8.76 AZP 90.09 TAL 207.11 TAP 303.42 RCA 100.17 APO 151.98 V2 34.936
 RC 57.109 GL 4.83 GP 18.37 ZAL 138.18 ZAP 25.45 ETS 318.76 ZAE 144.79 ETE 21.85 ZAC 128.15 ETC 146.84 CLP -17.93

PLANETOCENTRIC CONIC

C3 21.421 VHL 4.628 DLA 7.51 RAL 5.18 RAD 6567.9 VEL 11.950 PTH 2.13 VHP 6.543 DPA 31.62 RAP 35.37 ECC 1.3525
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 6 48 2465.61 -24.76 58.03 229.90 104.19 1 47 54 1865.6 -22.57 50.05
 90.00 14 57 45 4640.07 13.74 197.05 226.31 64.99 16 15 5 4040.1 10.25 190.10
 100.00 2 31 45 2191.63 -25.90 37.55 229.57 105.47 3 8 16 1591.6 -23.53 29.55
 100.00 16 15 29 4389.29 14.80 178.09 225.79 63.73 17 28 38 3789.3 11.15 171.20
 110.00 3 48 13 1952.30 -28.94 18.31 228.51 109.04 4 20 46 1352.3 -26.07 10.31
 110.00 17 15 30 4201.39 17.61 162.27 224.23 60.22 18 25 31 3601.4 13.52 155.55

DIFFERENTIAL CORRECTIONS

TDE -.1701 TRA -.2737 TC3 .7132 BAU .2267
 ROE -.2808 RRA .1882 RC3 .3437 FAU .05441
 FOE -.1575 FRA -.3305 FC3-2.1990 BSP 2455
 BOE .3283 BRA .3322 BC3 .7917 FSP -490

MID-COURSE EXECUTION ACCURACY

SGT 772.7 SGR 526.6 SG3 180.2
 RRT .4987 RRF -.6161 RTF -.7207
 SGB 935.0 R23 -.1154 R13 -.7706
 SG1 833.9 SG2 422.9 THA 25.88

ORBIT DETERMINATION ACCURACY

ST 235.1 SR 354.8 SS 135.0
 CRT .7933 CRS -.6897 CST -.9357
 LSA 421.4 MSA 142.5 SSA 39.1
 EL1 406.9 EL2 124.8 ALF 59.04

LAUNCH DATE FEB 15 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 222.461

RL 147.78 LAL .00 LOL 146.14 VL 27.385 GAL -6.56 AZL 89.36 MCA 99.48 SMA 126.85 ECC .19973 INC .6440 V1 30.150
 RP 108.51 LAP .64 LOP 245.62 VP 37.415 GAP -8.00 AZP 90.11 TAL 208.31 TAP 307.79 RCA 101.52 APO 152.19 V2 34.923
 RC 59.010 GL 3.84 GP 19.76 ZAL 139.54 ZAP 28.43 ETS 321.47 ZAE 144.37 ETE 24.54 ZAC 127.51 ETC 145.81 CLP -20.87

PLANETOCENTRIC CONIC

C3 20.804 VHL 4.561 DLA 6.09 RAL 4.39 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 6.171 DPA 32.99 RAP 34.99 ECC 1.3424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 14 33 2413.59 -23.85 54.50 228.09 105.74 1 54 47 1813.6 -21.46 46.64
 90.00 14 43 40 4678.04 14.82 199.32 225.21 65.59 16 1 38 4078.0 11.40 192.30
 100.00 2 38 47 2141.91 -24.95 34.16 227.74 107.02 3 14 29 1541.9 -22.39 26.30
 100.00 16 2 8 4424.95 15.86 180.20 224.70 64.33 17 15 53 3824.9 12.28 173.24
 110.00 3 53 38 1907.64 -27.91 15.25 226.61 110.59 4 25 26 1307.6 -24.85 7.41
 110.00 17 3 46 4231.98 18.64 164.05 223.19 60.81 18 14 18 3632.0 14.60 157.25

DIFFERENTIAL CORRECTIONS

TDE -.1544 TRA -.2618 TC3 .7383 BAU .2347
 ROE -.2628 RRA .1984 RC3 .4086 FAU .05962
 FOE -.2246 FRA -.3909 FC3-2.4810 BSP 2530
 BOE .3048 BRA .3285 BC3 .8438 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 775.0 SGR 557.5 SG3 201.6
 RRT .5373 RRF -.6720 RTF -.7222
 SGB 954.7 R23 -.1316 R13 -.7859
 SG1 854.0 SG2 426.7 THA 29.01

ORBIT DETERMINATION ACCURACY

ST 218.8 SR 338.8 SS 173.7
 CRT .7662 CRS -.7360 CST -.9546
 LSA 411.8 MSA 147.1 SSA 40.7
 EL1 383.7 EL2 124.1 ALF 60.25

LAUNCH DATE FEB 15 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 229.127

RL 147.78 LAL .00 LOL 146.14 VL 27.489 GAL -6.57 AZL 89.54 MCA 102.67 SMA 127.55 ECC .19471 INC .4602 V1 30.150
 RP 108.55 LAP .45 LOP 248.80 VP 37.480 GAP -7.28 AZP 90.10 TAL 209.42 TAP 312.09 RCA 102.71 APO 152.39 V2 34.911
 RC 60.976 GL 2.79 GP 21.29 ZAL 140.78 ZAP 31.64 ETS 323.84 ZAE 144.06 ETE 27.58 ZAC 126.64 ETC 144.86 CLP -23.97

PLANETOCENTRIC CONIC

C3 20.292 VHL 4.905 DLA 4.66 RAL 3.74 RAD 6567.8 VEL 11.903 PTH 2.11 VHP 5.829 DPA 34.43 RAP 34.35 ECC 1.3340
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 22 47 2362.71 -22.87 51.09 226.54 107.17 2 2 10 1762.7 -20.30 43.36
 90.00 14 30 14 4717.01 15.90 201.66 224.35 66.26 15 48 51 4117.0 12.56 194.58
 100.00 2 46 19 2093.28 -23.94 30.90 226.16 108.45 3 21 12 1493.3 -21.20 23.17
 100.00 15 49 23 4461.67 16.93 182.40 223.86 64.99 17 3 45 3861.7 13.42 175.37
 110.00 3 59 35 1863.97 -26.83 12.31 224.98 112.02 4 30 39 1264.0 -23.60 4.63
 110.00 16 52 37 4263.74 19.68 165.92 222.40 61.47 18 3 41 3663.7 15.72 159.04

DIFFERENTIAL CORRECTIONS

TDE -.1376 TRA -.2516 TC3 .7548 BAU .2430
 ROE -.2421 RRA .2102 RC3 .4824 FAU .06532
 FOE -.3049 FRA -.4560 FC3-2.7869 BSP 2636
 BOE .2785 BRA .3279 BC3 .8958 FSP -633

MID-COURSE EXECUTION ACCURACY

SGT 772.2 SGR 596.4 SG3 225.2
 RRT .5718 RRF -.7256 RTF -.7219
 SGB 975.7 R23 -.1452 R13 -.8034
 SG1 874.9 SG2 431.8 THA 32.73

ORBIT DETERMINATION ACCURACY

ST 200.8 SR 318.6 SS 217.5
 CRT .7255 CRS -.7587 CST -.9587
 LSA 405.2 MSA 152.2 SSA 41.8
 EL1 355.6 EL2 123.8 ALF 61.69

LAUNCH DATE FEB 15 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.580 GAL -6.58 AZL 89.73 MCA 105.84 SMA 128.17 ECC .19036 INC .2719 V1 30.150
 RP 108.58 LAP .26 LOP 251.98 VP 37.537 GAP -6.60 AZP 90.07 TAL 210.44 TAP 316.29 RCA 103.77 APO 152.57 V2 34.900
 RC 63.000 GL 1.67 GP 22.97 ZAL 141.86 ZAP 35.07 ETS 325.96 ZAE 143.84 ETE 31.01 ZAC 125.52 ETC 144.02 CLP -27.26

PLANETOCENTRIC CONIC

C3 19.868 VHL 4.457 DLA 3.22 RAL 3.23 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 5.517 DPA 35.93 RAP 33.42 ECC 1.3270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 31 33 2312.76 -21.82 47.80 225.24 108.50 2 10 6 1712.8 -19.09 40.19
 90.00 14 17 26 4756.89 16.98 204.10 223.74 66.99 15 36 42 4156.9 13.72 196.94
 100.00 2 54 24 2045.54 -22.88 27.75 224.84 109.78 3 28 30 1445.5 -19.98 20.16
 100.00 15 37 16 4499.35 18.00 184.69 223.27 65.73 16 52 15 3899.3 14.57 177.57
 110.00 4 6 6 1821.14 -25.71 9.49 223.61 113.35 4 36 27 1221.1 -22.32 1.97
 110.00 16 42 3 4296.51 20.73 167.88 221.85 62.19 17 53 40 3696.5 16.85 160.91

DIFFERENTIAL CORRECTIONS

TDE -.1231 TRA -.2465 TC3 .7557 BAU .2506
 RDE -.2186 RRA .2229 RC3 .5649 FAU .07134
 FDE -.3962 FRA -.5207 FC3-3.1086 BSP 2708
 BDE .2509 BRA .3324 BC3 .9435 FSP -712

MID-COURSE EXECUTION ACCURACY

SGT 761.4 SGR 644.1 SG3 250.2
 RRT .5967 RRF -.7745 RTF -.7136
 SGB 997.3 R23 -.1585 R13 -.8203
 SG1 895.1 SG2 439.6 TMA 37.14

ORBIT DETERMINATION ACCURACY

ST 185.8 SR 294.2 SS 264.0
 CRT .6690 CRS -.7641 CST -.9530
 LSA 405.5 MSA 156.9 SSA 42.2
 EL1 324.7 EL2 125.1 ALF 62.72

LAUNCH DATE FEB 15 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.660 GAL -6.59 AZL 89.92 MCA 109.02 SMA 128.71 ECC .18660 INC .0760 V1 30.150
 RP 108.62 LAP .07 LOP 255.16 VP 37.585 GAP -5.94 AZP 90.03 TAL 211.37 TAP 320.39 RCA 104.70 APO 152.73 V2 34.889
 RC 65.076 GL .48 GP 24.80 ZAL 142.80 ZAP 38.72 ETS 327.94 ZAE 143.65 ETE 34.89 ZAC 124.14 ETC 143.31 CLP -30.75

PLANETOCENTRIC CONIC

C3 19.517 VHL 4.418 DLA 1.77 RAL 2.87 RAD 6567.8 VEL 11.870 PTH 2.11 VHP 5.237 DPA 37.48 RAP 32.16 ECC 1.3212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 40 55 2263.47 -20.72 44.60 224.18 109.74 2 18 38 1663.5 -17.85 37.11
 90.00 14 5 12 4797.73 18.05 206.62 223.36 67.80 15 25 9 4197.7 14.88 199.37
 100.00 3 3 5 1998.43 -21.76 24.70 223.77 111.01 3 36 23 1398.4 -18.71 17.23
 100.00 15 25 43 4538.00 19.07 187.06 222.91 66.53 16 41 21 3938.0 15.73 179.86
 110.00 4 13 13 1778.91 -24.54 6.76 222.30 114.58 4 42 52 1178.9 -21.01 359.39
 110.00 16 32 4 4330.28 21.79 169.93 221.54 62.99 17 44 14 3730.3 17.99 162.85

DIFFERENTIAL CORRECTIONS

TDE -.1103 TRA -.2454 TC3 .7418 BAU .2585
 RDE -.1912 RRA .2367 RC3 .6569 FAU .07763
 FDE -.5011 FRA -.5851 FC3-3.4433 BSP 2785
 BDE .2207 BRA .3410 BC3 .9908 FSP -797

MID-COURSE EXECUTION ACCURACY

SGT 742.6 SGR 702.0 SG3 276.7
 RRT .6102 RRF -.8176 RTF -.6978
 SGB 1021.8 R23 -.1664 R13 -.8389
 SG1 917.3 SG2 450.2 TMA 42.37

ORBIT DETERMINATION ACCURACY

ST 173.2 SR 265.1 SS 314.3
 CRT .5885 CRS -.7524 CST -.9390
 LSA 414.4 MSA 159.9 SSA 42.1
 EL1 289.5 EL2 128.2 ALF 63.36

LAUNCH DATE FEB 15 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.728 GAL -6.59 AZL 90.12 MCA 112.19 SMA 129.19 ECC .18335 INC .1229 V1 30.150
 RP 108.65 LAP -.11 LOP 258.33 VP 37.625 GAP -5.31 AZP 89.95 TAL 212.18 TAP 324.37 RCA 105.50 APO 152.88 V2 34.878
 RC 67.198 GL -.78 GP 26.78 ZAL 143.57 ZAP 42.60 ETS 329.86 ZAE 143.44 ETE 39.25 ZAC 122.50 ETC 142.77 CLP -34.45

PLANETOCENTRIC CONIC

C3 19.229 VHL 4.385 DLA .30 RAL 2.66 RAD 6567.8 VEL 11.858 PTH 2.10 VHP 4.987 DPA 39.08 RAP 30.55 ECC 1.3165
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 56 2214.49 -19.57 41.48 223.36 110.89 2 27 51 1614.5 -16.55 34.10
 90.00 13 53 29 4839.65 19.10 209.24 223.22 68.69 15 14 8 4239.7 16.04 201.90
 100.00 3 12 25 1951.65 -20.59 21.72 222.93 112.16 3 44 57 1351.7 -17.40 14.37
 100.00 15 14 41 4577.72 20.12 189.54 222.79 67.42 16 30 58 3977.7 16.89 182.24
 110.00 4 20 59 1737.02 -23.33 4.11 221.62 115.73 4 49 56 1137.0 -19.67 356.88
 110.00 16 22 36 4365.12 22.85 172.07 221.46 63.86 17 35 21 3765.1 19.15 164.89

DIFFERENTIAL CORRECTIONS

TDE -.0986 TRA -.2475 TC3 .7139 BAU .2681
 RDE -.1588 RRA .2518 RC3 .7601 FAU .08416
 FDE -.6217 FRA -.6484 FC3-3.7893 BSP 2907
 BDE .1870 BRA .3531 BC3 1.0428 FSP -892

MID-COURSE EXECUTION ACCURACY

SGT 716.4 SGR 771.8 SG3 304.5
 RRT .6108 RRF -.8549 RTF -.6741
 SGB 1053.1 R23 -.1637 R13 -.8607
 SG1 945.9 SG2 462.9 TMA 48.48

ORBIT DETERMINATION ACCURACY

ST 162.4 SR 230.7 SS 369.2
 CRT .4683 CRS -.7158 CST -.9159
 LSA 434.2 MSA 160.3 SSA 41.4
 EL1 248.8 EL2 133.1 ALF 63.71

LAUNCH DATE FEB 15 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.786 GAL -6.59 AZL 90.33 MCA 115.36 SMA 129.60 ECC .18055 INC .3344 V1 30.150
 RP 108.68 LAP -.30 LOP 261.50 VP 37.658 GAP -4.71 AZP 89.86 TAL 212.88 TAP 328.25 RCA 106.20 APO 152.99 V2 34.867
 RC 69.360 GL -2.12 GP 28.92 ZAL 144.18 ZAP 46.68 ETS 331.79 ZAE 143.15 ETE 44.11 ZAC 120.59 ETC 142.43 CLP -38.39

PLANETOCENTRIC CONIC

C3 18.993 VHL 4.358 DLA -1.19 RAL 2.59 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 4.770 DPA 40.71 RAP 28.54 ECC 1.3126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 1 43 2165.44 -18.35 38.39 222.78 111.95 2 37 49 1565.4 -15.21 31.12
 90.00 13 42 12 4882.88 20.15 211.98 223.32 69.67 15 3 35 4282.9 17.20 204.54
 100.00 3 22 31 1904.83 -19.36 18.78 222.33 113.23 3 54 15 1304.8 -16.05 11.55
 100.00 15 4 5 4618.72 21.17 192.13 222.90 68.39 16 21 4 4018.7 18.05 184.73
 110.00 4 29 29 1695.16 -22.07 1.52 220.98 116.79 4 57 45 1095.2 -18.29 354.42
 110.00 16 13 36 4401.16 23.92 174.33 221.61 64.81 17 26 57 3801.2 20.32 167.03

DIFFERENTIAL CORRECTIONS

TDE -.0920 TRA -.2559 TC3 .6644 BAU .2784
 RDE -.1216 RRA .2668 RC3 .8723 FAU .09049
 FDE -.7528 FRA -.7027 FC3-4.1250 BSP 3015
 BDE .1525 BRA .3697 BC3 1.0965 FSP -982

MID-COURSE EXECUTION ACCURACY

SGT 680.5 SGR 852.5 SG3 331.9
 RRT .5887 RRF -.8853 RTF -.6316
 SGB 1090.8 R23 -.1515 R13 -.8829
 SG1 980.3 SG2 478.4 TMA 55.55

ORBIT DETERMINATION ACCURACY

ST 158.4 SR 192.8 SS 425.9
 CRT .2980 CRS -.6356 CST -.8901
 LSA 465.9 MSA 158.0 SSA 40.3
 EL1 205.1 EL2 142.2 ALF 61.77

LAUNCH DATE FEB 15 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 262.061

RL 147.78 LAL .00 LOL 146.14 VL 27.835 GAL -6.58 AZL 90.56 MCA 118.53 SMA 129.94 ECC .17815 INC .5564 V1 30.150
 RP 108.72 LAP -.49 LOP 264.67 VP 37.685 GAP -4.13 AZP 89.73 TAL 213.46 TAP 332.00 RCA 106.79 APO 153.09 V2 34.858
 RC 71.560 GL -3.55 GP 31.20 ZAL 144.60 ZAP 50.96 ETS 333.80 ZAE 142.70 ETE 49.45 ZAC 118.44 ETC 142.31 CLP -42.58

PLANETOCENTRIC CONIC

C3 18.804 VHL 4.336 DLA -2.71 RAL 2.58 RAD 6567.8 VEL 11.840 PTH 2.10 VMP 4.587 DPA 42.35 RAP 26.12 ECC 1.3095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 23 2115.85 -17.06 35.33 222.43 112.95 2 48 39 1515.9 -13.80 28.16
 90.00 13 31 15 4927.77 21.18 214.86 223.64 70.76 14 53 23 4327.8 18.37 207.32
 100.00 3 33 28 1857.53 -18.06 15.87 221.97 114.23 4 4 25 1257.5 -14.64 8.75
 100.00 14 53 51 4661.32 22.22 194.87 223.24 69.47 16 11 32 4061.3 19.22 187.35
 110.00 4 38 49 1652.96 -20.75 358.95 220.58 117.80 5 6 22 1053.0 -16.86 351.98
 110.00 16 4 59 4438.66 24.98 176.73 222.00 65.87 17 18 58 3838.7 21.51 169.30

DIFFERENTIAL CORRECTIONS

TDE -.0900 TRA -.2693 TC3 .5943 BAU .2910
 ROE -.0784 RRA .2814 RC3 .9933 FAU .09644
 FDE -.8951 FRA -.7456 FC3 -4.4399 BSP 3157
 BOE .1194 BRA .3895 BC3 1.1575 FSP -1070

MID-COURSE EXECUTION ACCURACY

SGT 637.7 SGR 944.2 SG3 358.3
 RRT .5377 RRF -.9097 RTF -.5644
 SGB 1139.4 R23 -.1265 R13 -.9052
 SG1 1026.4 SG2 494.6 THA 63.41

ORBIT DETERMINATION ACCURACY

ST 160.6 SR 154.5 SS 485.3
 CRT .0317 CRS -.4572 CST -.8667
 LSA 510.0 MSA 153.7 SSA 38.9
 EL1 161.5 EL2 153.6 ALF 19.55

LAUNCH DATE FEB 15 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 268.563

RL 147.78 LAL .00 LOL 146.14 VL 27.875 GAL -6.57 AZL 90.79 MCA 121.70 SMA 130.22 ECC .17608 INC .7922 V1 30.150
 RP 108.74 LAP -.67 LOP 267.84 VP 37.706 GAP -3.58 AZP 89.58 TAL 213.92 TAP 335.62 RCA 107.29 APO 153.15 V2 34.848
 RC 73.792 GL -5.09 GP 33.61 ZAL 144.84 ZAP 55.41 ETS 335.96 ZAE 142.03 ETE 55.21 ZAC 116.05 ETC 142.44 CLP -47.02

PLANETOCENTRIC CONIC

C3 18.661 VHL 4.320 DLA -4.27 RAL 2.93 RAD 6567.8 VEL 11.834 PTH 2.10 VMP 4.438 DPA 43.98 RAP 23.27 ECC 1.3071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 26 4 2065.20 -15.69 32.24 222.31 113.88 3 0 30 1465.2 -12.33 25.17
 90.00 13 20 30 4974.81 22.21 217.93 224.21 71.97 14 43 24 4374.8 19.54 210.28
 100.00 3 45 25 1809.27 -16.69 12.94 221.83 115.16 4 15 34 1209.3 -13.16 5.93
 100.00 14 43 51 4705.97 23.25 197.78 223.83 70.67 16 2 16 4106.0 20.40 190.14
 110.00 4 49 3 1610.05 -19.36 356.39 220.40 118.74 5 15 53 1010.0 -15.38 349.54
 110.00 15 56 41 4477.99 26.05 179.28 222.64 67.04 17 11 19 3878.0 22.71 171.71

DIFFERENTIAL CORRECTIONS

TDE -.0930 TRA -.2866 TC3 .5050 BAU .3073
 ROE -.0276 RRA .2954 RC3 1.1236 FAU .10184
 FDE -1.0490 FRA -.7764 FC3 -4.7249 BSP 3371
 BOE .0970 BRA .4115 BC3 1.2319 FSP -1159

MID-COURSE EXECUTION ACCURACY

SGT 592.3 SGR 1047.8 SG3 383.2
 RRT .4484 RRF -.9291 RTF -.4628
 SGB 1203.7 R23 -.0908 R13 -.9261
 SG1 1091.0 SG2 508.5 THA 71.66

ORBIT DETERMINATION ACCURACY

ST 168.7 SR 126.8 SS 548.6
 CRT -.4007 CRS -.0601 CST -.8513
 LSA 567.6 MSA 148.4 SSA 36.9
 EL1 181.3 EL2 108.2 ALF 152.93

LAUNCH DATE FEB 15 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 275.035

RL 147.78 LAL .00 LOL 146.14 VL 27.907 GAL -6.54 AZL 91.04 MCA 124.86 SMA 130.45 ECC .17432 INC 1.0444 V1 30.150
 RP 108.77 LAP -.86 LOP 271.01 VP 37.721 GAP -3.06 AZP 89.40 TAL 214.27 TAP 339.13 RCA 107.71 APO 153.19 V2 34.839
 RC 76.053 GL -6.74 GP 36.13 ZAL 144.87 ZAP 59.97 ETS 338.31 ZAE 141.06 ETE 61.29 ZAC 113.47 ETC 142.84 CLP -51.72

PLANETOCENTRIC CONIC

C3 18.561 VHL 4.308 DLA -5.90 RAL 3.33 RAD 6567.8 VEL 11.830 PTH 2.10 VMP 4.325 DPA 45.55 RAP 20.00 ECC 1.3055
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 39 59 2012.87 -14.22 29.10 222.44 114.75 3 13 32 1412.9 -10.76 22.12
 90.00 13 9 47 5024.63 23.22 221.23 225.04 73.32 14 33 32 4424.6 20.72 213.46
 100.00 3 58 32 1759.48 -15.22 9.97 221.95 116.04 4 27 52 1159.5 -11.60 3.06
 100.00 14 33 56 4753.25 24.28 200.91 224.68 72.01 15 53 9 4153.3 21.60 193.15
 110.00 5 0 23 1565.86 -17.90 353.81 220.47 119.62 5 26 29 965.9 -13.82 347.07
 110.00 15 48 35 4519.64 27.13 182.04 223.54 68.36 17 3 54 3919.6 23.94 174.32

DIFFERENTIAL CORRECTIONS

TDE -.1054 TRA -.3100 TC3 .3895 BAU .3264
 ROE .0296 RRA .3059 RC3 1.2562 FAU .10597
 FDE -1.2029 FRA -.7838 FC3 -4.9428 BSP 3610
 BOE .1094 BRA .4356 BC3 1.3152 FSP -1229

MID-COURSE EXECUTION ACCURACY

SGT 551.4 SGR 1157.8 SG3 403.4
 RRT .2948 RRF -.9438 RTF -.2994
 SGB 1282.4 R23 -.0514 R13 -.9427
 SG1 1172.0 SG2 520.5 THA 80.02

ORBIT DETERMINATION ACCURACY

ST 187.6 SR 132.9 SS 611.1
 CRT -.8202 CRS .4865 CST -.8538
 LSA 636.1 MSA 143.1 SSA 34.7
 EL1 220.6 EL2 64.6 ALF 146.60

LAUNCH DATE FEB 15 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 281.478

RL 147.78 LAL .00 LOL 146.14 VL 27.932 GAL -6.51 AZL 91.32 MCA 128.03 SMA 130.63 ECC .17281 INC 1.3167 V1 30.150
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.732 GAP -2.55 AZP 89.19 TAL 214.49 TAP 342.52 RCA 108.06 APO 153.20 V2 34.831
 RC 78.340 GL -8.52 GP 38.72 ZAL 144.69 ZAP 64.60 ETS 340.92 ZAE 139.76 ETE 67.55 ZAC 110.72 ETC 143.50 CLP -56.66

PLANETOCENTRIC CONIC

C3 18.510 VHL 4.302 DLA -7.61 RAL 3.90 RAD 6567.7 VEL 11.828 PTH 2.09 VMP 4.250 DPA 47.06 RAP 16.33 ECC 1.3046
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 22 1958.11 -12.63 25.86 222.83 115.55 3 28 1 1358.1 -9.09 18.97
 90.00 12 58 56 5078.10 24.22 224.83 226.14 74.86 14 23 34 4478.1 21.91 216.93
 100.00 4 13 4 1707.49 -13.65 6.92 222.31 116.85 4 41 31 1107.5 -9.94 .09
 100.00 14 23 56 4803.95 25.31 204.33 225.80 73.53 15 44 0 4203.9 22.81 196.43
 110.00 5 12 57 1519.95 -16.33 351.17 220.80 120.45 5 38 17 920.0 -12.17 344.54
 110.00 15 40 32 4564.25 28.21 185.06 224.73 69.84 16 56 36 3964.3 25.20 177.17

DIFFERENTIAL CORRECTIONS

TDE -.1264 TRA -.3365 TC3 .2534 BAU .3500
 ROE .0958 RRA .3135 RC3 1.3914 FAU .10886
 FDE -1.3597 FRA -.7722 FC3 -5.0915 BSP 3939
 BOE .1586 BRA .4599 BC3 1.4143 FSP -1293

MID-COURSE EXECUTION ACCURACY

SGT 529.4 SGR 1275.5 SG3 419.3
 RRT .0728 RRF -.9553 RTF -.0706
 SGB 1381.0 R23 -.0133 R13 -.9552
 SG1 1276.3 SG2 527.7 THA 87.91

ORBIT DETERMINATION ACCURACY

ST 216.2 SR 183.1 SS 676.4
 CRT -.9691 CRS .8154 CST -.8689
 LSA 719.4 MSA 138.5 SSA 32.1
 EL1 281.2 EL2 34.8 ALF 139.89

LAUNCH DATE FEB 15 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.950 GAL -6.47 AZL 91.61 MCA 131.19 SMA 130.76 ECC .17151 INC 1.6134 V1 30.150
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.739 GAP -2.07 AZP 88.94 TAL 214.60 TAP 345.79 RCA 108.33 APO 153.19 V2 34.824
 RC 80.651 GL -10.47 GP 41.35 ZAL 144.29 ZAP 69.24 ETS 343.81 ZAE 138.10 ETE 73.85 ZAC 107.87 ETC 144.42 CLP -61.82

PLANETOCENTRIC CONIC

C3 18.515 VHL 4.303 DLA -9.41 RAL 4.64 RAD 6567.7 VEL 11.828 PTH 2.09 VHP 4.213 DPA 48.46 RAP 12.31 ECC 1.3047
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 12 33 1900.04 -10.90 22.47 223.50 116.29 3 44 13 1300.0 -7.28 15.66
 90.00 12 47 42 5136.28 25.19 228.82 227.55 76.63 14 13 18 4536.3 23.11 220.77
 100.00 4 29 17 1652.51 -11.93 3.73 222.97 117.61 4 56 49 1052.5 -8.14 357.00
 100.00 14 13 39 4859.05 26.31 208.12 227.24 75.28 15 34 38 4259.1 24.04 200.06
 110.00 5 27 2 1471.68 -14.65 348.44 221.40 121.24 5 51 33 871.7 -10.40 341.91
 110.00 15 32 24 4612.64 29.30 188.40 226.24 71.55 16 49 17 4012.6 26.50 180.34

DIFFERENTIAL CORRECTIONS

TDE -.1606 TRA -.3671 TC3 .0923 BAU .3765
 RDE .1688 RRA .3140 RC3 1.5182 FAU .10975
 FDE -1.5045 FRA -.7302 FC3-5.1319 BSP 4293
 BDE .2330 BRA .4831 BC3 1.5210 FSP -1325

MID-COURSE EXECUTION ACCURACY

SGT 545.5 SGR 1391.8 SG3 427.6
 RRT -.2032 RRF -.9638 RTF .2096
 SGB 1494.9 R23 .0202 R13 .9837
 SG1 1397.0 SG2 532.1 THA 95.33

ORBIT DETERMINATION ACCURACY

ST 260.4 SR 261.2 SS 738.8
 CRT -.9830 CRS .9303 CST -.8931
 LSA 814.1 MSA 135.0 SSA 29.2
 EL1 367.3 EL2 34.0 ALF 134.91

LAUNCH DATE FEB 15 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.962 GAL -6.42 AZL 91.94 MCA 134.35 SMA 130.85 ECC .17041 INC 1.9402 V1 30.150
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.741 GAP -1.60 AZP 88.64 TAL 214.60 TAP 348.94 RCA 108.55 APO 153.15 V2 34.816
 RC 82.981 GL -12.60 GP 44.01 ZAL 143.63 ZAP 73.79 ETS 347.01 ZAE 136.09 ETE 80.04 ZAC 104.97 ETC 145.59 CLP -67.17

PLANETOCENTRIC CONIC

C3 18.588 VHL 4.311 DLA -11.33 RAL 5.57 RAD 6567.8 VEL 11.831 PTH 2.10 VHP 4.218 DPA 49.75 RAP 8.00 ECC 1.3059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 31 57 1837.54 -9.00 18.87 224.50 116.96 4 2 34 1237.5 -5.31 12.13
 90.00 12 35 45 5200.65 26.13 233.30 229.31 78.69 14 2 25 4600.6 24.31 225.10
 100.00 4 47 35 1593.54 -10.05 .37 223.94 118.30 5 14 8 993.5 -6.19 353.71
 100.00 14 2 48 4919.88 27.30 212.37 229.03 77.32 15 24 48 4319.9 25.28 204.15
 110.00 5 42 54 1420.32 -12.81 345.59 222.31 121.96 6 6 34 820.3 -8.50 339.15
 110.00 15 23 59 4665.87 30.39 192.17 228.11 73.53 16 41 45 4065.9 27.83 183.90

DIFFERENTIAL CORRECTIONS

TDE -.2090 TRA -.3989 TC3 -.0877 BAU .4064
 RDE .2502 RRA .3069 RC3 1.6330 FAU .10870
 FDE -1.6363 FRA -.6629 FC3-5.0627 BSP 4709
 BDE .3260 BRA .5034 BC3 1.6354 FSP -1334

MID-COURSE EXECUTION ACCURACY

SGT 612.6 SGR 1505.5 SG3 428.5
 RRT -.4595 RRF -.9703 RTF .4674
 SGB 1625.3 R23 .0477 R13 -.9694
 SG1 1535.3 SG2 533.5 THA 102.07

ORBIT DETERMINATION ACCURACY

ST 321.7 SR 357.6 SS 799.9
 CRT -.9796 CRS .9709 CST -.9178
 LSA 923.5 MSA 133.0 SSA 26.1
 EL1 478.6 EL2 48.3 ALF 131.91

LAUNCH DATE FEB 15 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.968 GAL -6.36 AZL 92.30 MCA 137.50 SMA 130.89 ECC .16948 INC 2.3041 V1 30.150
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.740 GAP -1.16 AZP 88.30 TAL 214.49 TAP 351.99 RCA 108.71 APO 153.08 V2 34.810
 RC 85.328 GL -14.95 GP 46.66 ZAL 142.70 ZAP 78.20 ETS 350.53 ZAE 133.74 ETE 86.01 ZAC 102.07 ETC 146.98 CLP -72.66

PLANETOCENTRIC CONIC

C3 18.752 VHL 4.330 DLA -13.41 RAL 6.71 RAD 6567.8 VEL 11.838 PTH 2.10 VHP 4.266 DPA 50.94 RAP 3.48 ECC 1.3086
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 10 1769.14 -6.86 14.97 225.89 117.54 4 23 39 1169.1 -3.12 8.29
 90.00 12 22 38 5273.18 27.00 238.43 231.45 81.12 13 50 31 4673.2 25.49 230.09
 100.00 5 8 29 1529.33 -7.96 356.75 225.30 118.91 5 33 58 929.3 -4.04 350.15
 100.00 13 51 0 4988.22 28.22 217.24 231.22 79.72 15 14 8 4388.2 26.51 208.85
 110.00 6 0 58 1364.97 -10.80 342.57 223.58 122.63 6 23 43 765.0 -6.42 336.21
 110.00 15 15 0 4725.34 31.46 196.47 230.41 75.87 16 33 46 4125.3 29.20 187.99

DIFFERENTIAL CORRECTIONS

TDE -.2740 TRA -.4293 TC3 -.2807 BAU .4394
 RDE .3412 RRA .2918 RC3 1.7302 FAU .10577
 FDE -1.7536 FRA -.5757 FC3-4.8829 BSP 5199
 BDE .4376 BRA .5190 BC3 1.7528 FSP -1326

MID-COURSE EXECUTION ACCURACY

SGT 729.0 SGR 1614.5 SG3 422.2
 RRT -.6455 RRF -.9753 RTF .6531
 SGB 1771.5 R23 .0692 R13 -.9734
 SG1 1689.7 SG2 532.0 THA 108.10

ORBIT DETERMINATION ACCURACY

ST 402.7 SR 469.0 SS 860.7
 CRT -.9786 CRS .9869 CST -.9391
 LSA 1051.2 MSA 132.3 SSA 22.9
 EL1 614.9 EL2 63.2 ALF 130.55

LAUNCH DATE FEB 15 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.970 GAL -6.30 AZL 92.71 MCA 140.66 SMA 130.90 ECC .16869 INC 2.7143 V1 30.150
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.735 GAP -.73 AZP 87.90 TAL 214.27 TAP 354.93 RCA 108.82 APO 152.98 V2 34.804
 RC 87.691 GL -17.56 GP 49.31 ZAL 141.46 ZAP 82.36 ETS 354.36 ZAE 131.10 ETE 91.67 ZAC 99.21 ETC 148.55 CLP -78.24

PLANETOCENTRIC CONIC

C3 19.037 VHL 4.363 DLA -15.67 RAL 8.09 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 4.360 DPA 52.03 RAP 358.82 ECC 1.3133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 20 2 1692.76 -4.44 10.67 227.75 118.00 4 48 15 1092.8 -.66 4.03
 90.00 12 7 43 5356.67 27.73 244.43 234.06 84.04 13 36 59 4756.7 26.62 235.94
 100.00 5 32 45 1458.17 -5.60 352.79 227.12 119.41 5 57 3 858.2 -1.64 346.24
 100.00 13 37 41 5066.49 29.04 222.91 233.88 82.59 15 2 8 4466.5 27.71 214.36
 110.00 6 21 47 1304.55 -8.56 339.32 225.30 123.22 6 43 31 704.5 -4.13 333.03
 110.00 15 5 8 4792.88 32.47 201.47 233.23 78.67 16 25 1 4192.9 30.57 192.77

DIFFERENTIAL CORRECTIONS

TDE -.3597 TRA -.4564 TC3 -.4821 BAU .4733
 RDE .4394 RRA .2642 RC3 1.7960 FAU .10064
 FDE -1.8438 FRA -.4642 FC3-4.5766 BSP 5694
 BDE .5678 BRA .5273 BC3 1.8596 FSP -1282

MID-COURSE EXECUTION ACCURACY

SGT 887.5 SGR 1708.5 SG3 407.2
 RRT -.7625 RRF -.9791 RTF .7694
 SGB 1925.2 R23 .0870 R13 -.9759
 SG1 1850.8 SG2 530.0 THA 113.67

ORBIT DETERMINATION ACCURACY

ST 508.1 SR 588.9 SS 916.0
 CRT -.9803 CRS .9938 CST -.9556
 LSA 1194.1 MSA 133.2 SSA 19.7
 EL1 774.0 EL2 76.3 ALF 130.70

LAUNCH DATE FEB 15 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 313.262

RL 147.78 LAL .00 LOL 146.14 VL 27.966 GAL -6.22 AZL 93.18 MCA 143.81 SMA 130.88 ECC .16803 INC 3.1835 V1 30.150
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.728 GAP -.32 AZP 87.43 TAL 213.96 TAP 357.76 RCA 108.89 APO 152.87 V2 34.799
 RC 90.065 GL -20.47 GP 51.96 ZAL 139.88 ZAP 86.22 ETS 358.48 ZAE 128.21 ETE 96.97 ZAC 96.44 ETC 150.27 CLP -83.86

PLANETOCENTRIC CONIC

C3 19.492 VHL 4.415 DLA -18.15 RAL 9.73 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 4.506 DPA 53.08 RAP 354.07 ECC 1.3208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 54 1605.21 -1.63 5.77 230.23 118.27 5 17 40 1005.2 2.16 359.15
 90.00 11 49 55 5455.38 28.22 251.61 237.19 87.60 13 20 51 4855.4 27.59 243.00
 100.00 6 1 28 1377.55 -2.89 348.34 229.53 119.77 6 24 25 777.6 1.10 341.82
 100.00 13 22 3 5158.27 29.66 229.66 237.10 86.10 14 48 1 4558.3 28.80 220.96
 110.00 6 46 8 1237.59 -6.05 335.76 227.57 123.71 7 6 45 637.6 -1.58 329.53
 110.00 14 53 52 4870.99 33.36 207.39 236.65 82.07 16 15 3 4271.0 31.91 198.47

DIFFERENTIAL CORRECTIONS

TDE -.4694 TRA -.4763 TC3 -.6803 BAU .5086
 RDE .5486 RRA .2260 RC3 1.8293 FAU .09395
 FDE -1.9138 FRA -.3431 FC3 -4.1729 BSP 6254
 BOE .7220 BRA .5272 BC3 1.9517 FSP -1225

MID-COURSE EXECUTION ACCURACY

SGT 1074.7 SGR 1792.0 SG3 386.1
 RRT -.8333 RRF -.9822 RTF .8395
 SGB 2089.6 R23 .1009 R13 -.9778
 SG1 2022.1 SG2 526.6 THA 118.68

ORBIT DETERMINATION ACCURACY

ST 639.9 SR 719.6 SS 969.5
 CRT -.9830 CRS .9971 CST -.9680
 LSA 1359.7 MSA 135.1 SSA 16.7
 EL1 958.9 EL2 88.2 ALF 131.59

LAUNCH DATE FEB 15 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 319.535

RL 147.78 LAL .00 LOL 146.14 VL 27.958 GAL -6.14 AZL 93.73 MCA 146.96 SMA 130.82 ECC .16748 INC 3.7290 V1 30.150
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.718 GAP .07 AZP 86.87 TAL 213.55 TAP .50 RCA 108.91 APO 152.73 V2 34.795
 RC 92.449 GL -23.73 GP 54.63 ZAL 137.91 ZAP 89.69 ETS 2.90 ZAE 125.10 ETE 101.91 ZAC 93.78 ETC 152.10 CLP -89.46

PLANETOCENTRIC CONIC

C3 20.190 VHL 4.493 DLA -20.89 RAL 11.68 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 4.712 DPA 54.10 RAP 349.24 ECC 1.3323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 3 1500.81 1.74 359.95 233.54 118.27 5 54 4 900.8 5.51 353.30
 90.00 11 27 21 5576.49 28.25 260.46 240.89 92.04 13 0 17 4976.5 28.23 251.80
 100.00 6 36 27 1283.32 .31 343.17 232.74 119.89 6 57 50 683.3 4.28 336.64
 100.00 13 2 38 5269.22 29.89 237.90 240.93 90.42 14 30 27 4669.2 29.63 229.10
 110.00 7 15 9 1162.05 -3.18 331.80 230.56 124.05 7 34 31 562.0 1.31 325.59
 110.00 14 40 26 4963.26 34.00 214.52 240.79 86.24 16 3 9 4363.3 33.11 205.39

DIFFERENTIAL CORRECTIONS

TDE -.6090 TRA -.4854 TC3 -.8647 BAU .5425
 RDE .6665 RRA .1720 RC3 1.8143 FAU .08557
 FDE -1.9532 FRA -.2089 FC3 -3.6691 BSP 6796
 BOE .9028 BRA .5149 BC3 2.0099 FSP -1138

MID-COURSE EXECUTION ACCURACY

SGT 1282.9 SGR 1853.6 SG3 357.9
 RRT -.8758 RRF -.9846 RTF .8817
 SGB 2254.3 R23 .1132 R13 -.9789
 SG1 2192.6 SG2 523.5 THA 123.37

ORBIT DETERMINATION ACCURACY

ST 802.0 SR 854.2 SS 1015.3
 CRT -.9856 CRS .9987 CST -.9767
 LSA 1544.1 MSA 138.2 SSA 13.9
 EL1 1167.4 EL2 99.3 ALF 133.17

LAUNCH DATE FEB 15 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 325.779

RL 147.78 LAL .00 LOL 146.14 VL 27.946 GAL -6.05 AZL 94.37 MCA 150.10 SMA 130.74 ECC .16703 INC 4.3749 V1 30.150
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.706 GAP .45 AZP 86.21 TAL 213.05 TAP 3.15 RCA 108.90 APO 152.57 V2 34.791
 RC 94.840 GL -27.38 GP 57.38 ZAL 135.50 ZAP 92.71 ETS 7.59 ZAE 121.78 ETE 106.52 ZAC 91.23 ETC 154.04 CLP -95.04

PLANETOCENTRIC CONIC

C3 21.248 VHL 4.610 DLA -23.91 RAL 14.01 RAD 6567.9 VEL 11.943 PTH 2.13 VHP 4.989 DPA 55.16 RAP 344.28 ECC 1.3497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 19 22 1366.49 6.04 352.42 238.06 117.72 6 42 9 766.5 9.71 345.66
 90.00 10 55 35 5735.28 27.32 271.98 245.11 97.73 12 31 11 5135.3 28.11 263.40
 100.00 7 21 10 1167.05 4.24 336.78 237.07 119.62 7 40 37 567.0 8.15 330.17
 100.00 12 36 29 5409.95 29.36 248.32 245.39 95.88 14 6 39 4810.0 29.87 239.55
 110.00 7 50 39 1074.59 .16 327.23 234.53 124.18 8 8 33 474.6 4.64 321.02
 110.00 14 23 30 5075.18 34.16 223.25 245.74 91.40 15 48 5 4475.2 33.97 214.01

DIFFERENTIAL CORRECTIONS

TDE -.7858 TRA -.4785 TC3 -1.0194 BAU .5755
 RDE .7980 RRA .1042 RC3 1.7507 FAU .07621
 FDE -1.9698 FRA -.0765 FC3 -3.1051 BSP 7372
 BOE 1.1199 BRA .4897 BC3 2.0259 FSP -1041

MID-COURSE EXECUTION ACCURACY

SGT 1503.5 SGR 1899.7 SG3 325.6
 RRT -.9025 RRF -.9867 RTF .9089
 SGB 2422.6 R23 .1230 R13 -.9799
 SG1 2366.2 SG2 519.7 THA 127.67

ORBIT DETERMINATION ACCURACY

ST 996.4 SR 993.9 SS 1056.0
 CRT -.9879 CRS .9995 CST -.9830
 LSA 1753.8 MSA 141.6 SSA 11.4
 EL1 1403.1 EL2 109.4 ALF 135.07

LAUNCH DATE FEB 15 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 331.996

RL 147.78 LAL .00 LOL 146.14 VL 27.931 GAL -5.94 AZL 95.16 MCA 153.24 SMA 130.63 ECC .16667 INC 5.1570 V1 30.150
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.692 GAP .81 AZP 85.39 TAL 212.46 TAP 5.71 RCA 108.85 APO 152.40 V2 34.788
 RC 97.236 GL -31.49 GP 60.25 ZAL 132.61 ZAP 95.23 ETS 12.59 ZAE 118.27 ETE 110.85 ZAC 88.79 ETC 156.11 CLP -100.58

PLANETOCENTRIC CONIC

C3 22.856 VHL 4.781 DLA -27.26 RAL 16.79 RAD 6567.9 VEL 12.010 PTH 2.14 VHP 5.355 DPA 56.28 RAP 339.09 ECC 1.3762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 40 35 1146.45 12.78 339.77 244.85 115.48 7 59 42 546.5 16.11 332.67
 90.00 9 56 37 702.59 23.72 311.87 249.19 105.93 10 8 19 102.6 25.68 303.75
 100.00 8 24 51 1003.43 9.66 327.65 243.23 118.43 8 41 34 403.4 13.38 320.84
 100.00 11 55 2 5608.88 27.12 262.66 250.16 103.09 13 28 31 5008.9 28.65 254.19
 110.00 8 35 57 968.56 4.21 321.69 239.91 123.95 8 52 6 368.6 8.64 315.40
 110.00 14 0 25 5216.52 33.38 234.20 251.50 97.83 15 27 21 4616.5 34.10 225.04

DIFFERENTIAL CORRECTIONS

TDE -1.0113 TRA -.4487 TC3 -1.1283 BAU .6045
 RDE .9415 RRA .0164 RC3 1.6251 FAU .06593
 FDE -1.9572 FRA .0560 FC3 -2.4972 BSP 7908
 BOE 1.3817 BRA .4490 BC3 1.9784 FSP -924

MID-COURSE EXECUTION ACCURACY

SGT 1731.7 SGR 1920.4 SG3 289.3
 RRT -.9193 RRF -.9884 RTF .9268
 SGB 2585.9 R23 .1319 R13 -.9807
 SG1 2533.8 SG2 516.5 THA 131.78

ORBIT DETERMINATION ACCURACY

ST 1226.0 SR 1129.3 SS 1085.9
 CRT -.9897 CRS .9998 CST -.9875
 LSA 1984.0 MSA 145.6 SSA 9.1
 EL1 1662.6 EL2 119.0 ALF 137.37

LAUNCH DATE FEB 15 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 338.185

RL 147.78 LAL .00 LOL 146.14 VL 27.913 GAL -5.83 AZL 96.13 MCA 156.38 SMA 130.49 ECC .16638 INC 6.1299 V1 30.150
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.676 GAP 1.16 AZP 84.38 TAL 211.80 TAP 8.17 RCA 108.78 APO 152.20 V2 34.786
 RC 99.636 GL -36.08 GP 63.33 ZAL 129.17 ZAP 97.18 ETS 17.96 ZAE 114.54 ETE 115.05 ZAC 86.40 ETC 158.40 CLP-106.16

PLANETOCENTRIC CONIC

C3 25.345 VHL 5.034 DLA -30.92 RAL 20.15 RAD 6568.0 VEL 12.113 PTH 2.17 VHP 5.843 DPA 57.48 RAP 333.50 ECC 1.4171
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.04 7 18 40 1282.09 19.77 353.11 253.26 114.27 7 40 2 682.1 22.88 345.61
 102.96 10 45 20 617.62 19.78 304.09 253.27 114.26 10 55 38 17.6 22.89 296.59
 77.04 7 18 40 1282.09 19.77 353.11 253.26 114.27 7 40 2 682.1 22.88 345.61
 102.96 10 45 20 617.62 19.78 304.09 253.27 114.26 10 55 38 17.6 22.89 296.59
 110.00 9 39 21 824.42 9.63 314.05 247.55 122.96 9 53 5 224.4 13.90 307.56
 110.00 13 23 50 5411.33 30.62 248.70 257.65 105.99 14 54 2 4811.3 32.51 239.99

DIFFERENTIAL CORRECTIONS

TDE-1.3047 TRA -.3876 TC3-1.1753 BAU .6300
 RDE 1.1021 RRA -.0903 RC3 1.4405 FAU .05542
 FDE-1.9234 FRA .1760 FC3-1.8932 BSP 8482
 BDE 1.7079 BRA .3980 BC3 1.8592 FSP -807

MID-COURSE EXECUTION ACCURACY

SGT 1967.2 SGR 1921.3 SG3 251.6
 RRT -.9306 RRF -.9899 RTF .9403
 SGB 2749.7 R23 .1379 R13 -.9816
 SG1 2701.7 SG2 511.9 THA 135.73

ORBIT DETERMINATION ACCURACY

ST 1493.3 SR 1255.6 SS 1106.0
 CRT -.9912 CRS 1.0000 CST -.9908
 LSA 2237.7 MSA 148.9 SSA 7.2
 EL1 1946.8 EL2 127.3 ALF 139.99

LAUNCH DATE FEB 15 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 344.343

RL 147.78 LAL .00 LOL 146.14 VL 27.891 GAL -5.71 AZL 97.38 MCA 159.50 SMA 130.34 ECC .16617 INC 7.3805 V1 30.150
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.659 GAP 1.50 AZP 83.08 TAL 211.05 TAP 10.55 RCA 108.68 APO 152.00 V2 34.784
 RC 102.038 GL -41.18 GP 66.70 ZAL 125.15 ZAP 98.51 ETS 23.87 ZAE 110.54 ETE 119.35 ZAC 84.02 ETC 161.11 CLP-111.98

PLANETOCENTRIC CONIC

C3 29.319 VHL 5.415 DLA -34.86 RAL 24.24 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 6.502 DPA 58.73 RAP 327.21 ECC 1.4825
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.77 6 41 23 1484.36 20.94 9.26 260.90 118.53 7 6 7 884.4 24.58 1.95
 111.23 11 55 15 5775.81 20.95 272.65 260.91 118.52 13 31 31 5175.8 24.59 265.34
 68.77 6 41 23 1484.36 20.94 9.26 260.90 118.53 7 6 7 884.4 24.58 1.95
 111.23 11 55 15 5775.81 20.95 272.65 260.91 118.52 13 31 31 5175.8 24.59 265.34
 68.77 6 41 23 1484.36 20.94 9.26 260.90 118.53 7 6 7 884.4 24.58 1.95
 111.23 11 55 15 5775.81 20.95 272.65 260.91 118.52 13 31 31 5175.8 24.59 265.34

DIFFERENTIAL CORRECTIONS

TDE-1.6949 TRA -.2776 TC3-1.1424 BAU .6466
 RDE 1.2722 RRA -.2247 RC3 1.1899 FAU .04474
 FDE-1.8628 FRA .2864 FC3-1.3211 BSP 8979
 BDE 2.1192 BRA .3571 BC3 1.6495 FSP -680

MID-COURSE EXECUTION ACCURACY

SGT 2208.0 SGR 1885.9 SG3 212.8
 RRT -.9377 RRF -.9910 RTF .9510
 SGB 2903.8 R23 .1418 R13 -.9828
 SG1 2859.4 SG2 505.8 THA 139.79

ORBIT DETERMINATION ACCURACY

ST 1797.1 SR 1349.5 SS 1109.3
 CRT -.9923 CRS .9999 CST -.9933
 LSA 2501.6 MSA 151.7 SSA 5.6
 EL1 2243.4 EL2 134.2 ALF 143.16

LAUNCH DATE FEB 15 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 350.467

RL 147.78 LAL .00 LOL 146.14 VL 27.867 GAL -5.57 AZL 99.06 MCA 162.62 SMA 130.17 ECC .16601 INC 9.0580 V1 30.150
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.640 GAP 1.82 AZP 81.35 TAL 210.22 TAP 12.84 RCA 108.56 APO 151.78 V2 34.783
 RC 104.441 GL -46.72 GP 70.45 ZAL 120.56 ZAP 99.19 ETS 30.71 ZAE 106.18 ETE 124.26 ZAC 81.54 ETC 164.71 CLP-118.52

PLANETOCENTRIC CONIC

C3 35.976 VHL 5.998 DLA -38.95 RAL 29.26 RAD 6568.4 VEL 12.544 PTH 2.27 VHP 7.422 DPA 59.94 RAP 319.83 ECC 1.5921
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.05 6 25 58 1640.25 21.25 22.06 270.49 123.45 6 53 19 1040.3 25.49 15.09
 117.95 12 50 39 5722.94 21.26 268.58 270.50 123.44 14 26 2 5122.9 25.50 261.60
 62.05 6 25 58 1640.25 21.25 22.06 270.49 123.45 6 53 19 1040.3 25.49 15.09
 117.95 12 50 39 5722.94 21.26 268.58 270.50 123.44 14 26 2 5122.9 25.50 261.60
 62.05 6 25 58 1640.25 21.25 22.06 270.49 123.45 6 53 19 1040.3 25.49 15.09
 117.95 12 50 39 5722.94 21.26 268.58 270.50 123.44 14 26 2 5122.9 25.50 261.60

DIFFERENTIAL CORRECTIONS

TDE-2.2378 TRA -.0918 TC3-1.0233 BAU .6520
 RDE 1.4376 RRA -.3862 RC3 .8892 FAU .03450
 FDE-1.7849 FRA .3791 FC3 -.8302 BSP 9522
 BDE 2.6598 BRA .3969 BC3 1.3557 FSP -560

MID-COURSE EXECUTION ACCURACY

SGT 2467.6 SGR 1802.4 SG3 175.3
 RRT -.9424 RRF -.9913 RTF .9618
 SGB 3055.8 R23 .1400 R13 -.9848
 SG1 3015.7 SG2 493.3 THA 144.36

ORBIT DETERMINATION ACCURACY

ST 2138.2 SR 1380.9 SS 1097.2
 CRT -.9929 CRS .9998 CST -.9952
 LSA 2767.6 MSA 151.8 SSA 4.3
 EL1 2541.6 EL2 138.2 ALF 147.22

LAUNCH DATE FEB 15 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 356.550

RL 147.78 LAL .00 LOL 146.14 VL 27.840 GAL -5.42 AZL 101.44 MCA 165.71 SMA 129.98 ECC .16589 INC 11.4382 V1 30.150
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.620 GAP 2.12 AZP 78.91 TAL 209.31 TAP 15.02 RCA 108.42 APO 151.54 V2 34.783
 RC 106.844 GL -52.53 GP 74.69 ZAL 115.45 ZAP 99.17 ETS 39.53 ZAE 101.31 ETE 130.93 ZAC 78.81 ETC 170.34 CLP-127.11

PLANETOCENTRIC CONIC

C3 47.959 VHL 6.925 DLA -42.93 RAL 35.41 RAD 6568.8 VEL 13.012 PTH 2.37 VHP 8.771 DPA 60.89 RAP 310.84 ECC 1.7893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.27 6 24 57 1783.85 20.08 33.48 282.25 128.78 6 54 41 1183.8 24.95 27.02
 123.73 13 40 47 5724.24 20.09 267.77 282.27 128.77 15 16 11 5124.2 24.97 261.31
 56.27 6 24 57 1783.85 20.08 33.48 282.25 128.78 6 54 41 1183.8 24.95 27.02
 123.73 13 40 47 5724.24 20.09 267.77 282.27 128.77 15 16 11 5124.2 24.97 261.31
 56.27 6 24 57 1783.85 20.08 33.48 282.25 128.78 6 54 41 1183.8 24.95 27.02
 123.73 13 40 47 5724.24 20.09 267.77 282.27 128.77 15 16 11 5124.2 24.97 261.31

DIFFERENTIAL CORRECTIONS

TDE-3.0306 TRA .2371 TC3 -.8164 BAU .6326
 RDE 1.5113 RRA -.5726 RC3 .5542 FAU .02474
 FDE-1.6907 FRA .4620 FC3 -.4466 BSP 9961
 BDE 3.3865 BRA .6198 BC3 .9867 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 2763.5 SGR 1603.5 SG3 139.6
 RRT -.9425 RRF -.9885 RTF .9732
 SGB 3195.1 R23 .1314 R13 -.9876
 SG1 3160.5 SG2 468.8 THA 150.62

ORBIT DETERMINATION ACCURACY

ST 2508.9 SR 1265.5 SS 1066.8
 CRT -.9926 CRS .9991 CST -.9968
 LSA 3002.0 MSA 148.1 SSA 3.2
 EL1 2806.6 EL2 137.7 ALF 153.33

LAUNCH DATE FEB 15 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 362.575

RL 147.78 LAL .00 LOL 146.14 VL 27.812 GAL -5.26 AZL 105.09 MCA 168.77 SMA 129.78 ECC .16578 INC15.0907 V1 30.150
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.600 GAP 2.41 AZP 75.19 TAL 208.31 TAP 17.07 RCA 108.26 APO 151.29 V2 34.784
 RC 109.246 GL -58.20 GP 79.37 ZAL 109.94 ZAP 98.42 ETS 53.62 ZAE 95.63 ETE 142.77 ZAC 75.54 ETC 181.44 CLP-142.54

PLANETOCENTRIC CONIC

C3 71.975 VHL 8.484 DLA -46.27 RAL 42.82 RAD 6569.4 VEL 13.904 PTH 2.54 VHP 10.900 DPA 61.11 RAP 299.68 ECC 2.1845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.74 6 37 6 1928.47 16.77 43.62 296.05 133.78 7 9 15 1328.5 22.20 37.81
 128.26 14 27 44 5777.50 16.78 269.58 296.07 133.78 16 4 1 5177.5 22.22 263.76
 51.74 6 37 6 1928.47 16.77 43.62 296.05 133.78 7 9 15 1328.5 22.20 37.81
 128.26 14 27 44 5777.50 16.78 269.58 296.07 133.78 16 4 1 5177.5 22.22 263.76
 51.74 6 37 6 1928.47 16.77 43.62 296.05 133.78 7 9 15 1328.5 22.20 37.81
 128.26 14 27 44 5777.50 16.78 269.58 296.07 133.78 16 4 1 5177.5 22.22 263.76

DIFFERENTIAL CORRECTIONS

TDE-4.2693 TRA .8623 TC3 -.5401 BAU .5640
 RDE 1.1300 RRA -.6889 RC3 .2277 FAU .01573
 FDE-1.6031 FRA .5430 FC3 -.1892 BSP 10406
 BDE 4.4163 BRA 1.1037 BC3 .5862 FSP -342

MID-COURSE EXECUTION ACCURACY

SGT 3140.6 SGR 1088.4 SG3 107.8
 RRT -.9132 RRF -.9627 RTF .9858
 SGB 3323.8 R23 .1124 R13 -.9913
 SG1 3296.9 SG2 422.5 TMA 162.14

ORBIT DETERMINATION ACCURACY

ST 2894.5 SR 789.5 SS 1030.6
 CRT -.9854 CRS .9936 CST -.9983
 LSA 3169.3 MSA 137.7 SSA 2.3
 EL1 2997.4 EL2 129.9 ALF 164.93

LAUNCH DATE FEB 15 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 368.500

RL 147.78 LAL .00 LOL 146.14 VL 27.781 GAL -5.07 AZL 111.38 MCA 171.75 SMA 129.56 ECC .16560 INC21.3818 V1 30.150
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.578 GAP 2.66 AZP 68.82 TAL 207.17 TAP 18.92 RCA 108.10 APO 151.02 V2 34.785
 RC 111.645 GL -62.74 GP 83.01 ZAL 104.28 ZAP 96.96 ETS 84.77 ZAE 88.49 ETE 171.71 ZAC 71.12 ETC 210.08 CLP 174.42

PLANETOCENTRIC CONIC

C3 128.803 VHL 11.349 DLA -47.97 RAL 51.17 RAD 6570.4 VEL 15.816 PTH 2.80 VHP 14.638 DPA 59.61 RAP 286.05 ECC 3.1198
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.52 7 2 35 2073.66 11.07 51.57 310.99 136.98 7 37 9 1473.7 16.86 46.29
 130.48 15 8 53 5883.41 11.09 273.76 311.01 136.98 16 46 57 5283.4 16.87 268.48
 49.52 7 2 35 2073.66 11.07 51.57 310.99 136.98 7 37 9 1473.7 16.86 46.29
 130.48 15 8 53 5883.41 11.09 273.76 311.01 136.98 16 46 57 5283.4 16.87 268.48
 49.52 7 2 35 2073.66 11.07 51.57 310.99 136.98 7 37 9 1473.7 16.86 46.29
 130.48 15 8 53 5883.41 11.09 273.76 311.01 136.98 16 46 57 5283.4 16.87 268.48

DIFFERENTIAL CORRECTIONS

TDE-5.7205 TRA 2.0548 TC3 -.2121 BAU .3653
 RDE-1.7430 RRA -.0243 RC3 -.0036 FAU .00674
 FDE-1.5707 FRA .6623 FC3 -.0453 BSP 10760
 BDE 5.9802 BRA 2.0550 BC3 .2121 FSP -258

MID-COURSE EXECUTION ACCURACY

SGT 3312.5 SGR 880.2 SG3 81.5
 RRT .8632 RRF .8309 RTF .9969
 SGB 3427.4 R23 -.0884 R13 .9948
 SG1 3400.0 SG2 432.9 TMA 13.14

ORBIT DETERMINATION ACCURACY

ST 2925.2 SR 880.0 SS 1020.6
 CRT .9863 CRS -.9814 CST -.9996
 LSA 3217.4 MSA 144.7 SSA 1.8
 EL1 3051.5 EL2 139.3 ALF 16.56

LAUNCH DATE FEB 15 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 374.192

RL 147.78 LAL .00 LOL 146.14 VL 27.749 GAL -4.83 AZL 124.31 MCA 174.53 SMA 129.33 ECC .16516 INC34.3145 V1 30.150
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.556 GAP 2.84 AZP 55.81 TAL 205.80 TAP 20.33 RCA 107.97 APO 150.69 V2 34.787
 RC 114.042 GL -63.46 GP 77.86 ZAL 98.85 ZAP 94.90 ETS 140.72 ZAE 77.99 ETE 225.53 ZAC 63.83 ETC 264.78 CLP 113.95

PLANETOCENTRIC CONIC

C3 303.581 VHL 17.424 DLA -45.75 RAL 58.80 RAD 6571.7 VEL 20.613 PTH 3.17 VHP 22.343 DPA 54.01 RAP 270.39 ECC 5.9962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.44 7 43 26 2181.08 4.22 54.56 324.67 135.59 8 19 47 1581.1 9.90 49.30
 127.56 15 28 57 755.15 4.23 303.84 324.69 135.59 15 41 32 155.2 9.91 298.58
 52.44 7 43 26 2181.08 4.22 54.56 324.67 135.59 8 19 47 1581.1 9.90 49.30
 127.56 15 28 57 755.15 4.23 303.84 324.69 135.59 15 41 32 155.2 9.91 298.58
 52.44 7 43 26 2181.08 4.22 54.56 324.67 135.59 8 19 47 1581.1 9.90 49.30
 127.56 15 28 57 755.15 4.23 303.84 324.69 135.59 15 41 32 155.2 9.91 298.58

DIFFERENTIAL CORRECTIONS

TDE-1.3384 TRA 2.2900 TC3 -.0074 BAU .3523
 RDE-8.5349 RRA 3.4434 RC3 .0865 FAU-.00630
 FDE-1.7294 FRA .9478 FC3 .0180 BSP 10837
 BDE 8.6392 BRA 4.1354 BC3 .0868 FSP -200

MID-COURSE EXECUTION ACCURACY

SGT 1165.7 SGR 3255.9 SG3 62.7
 RRT .7848 RRF .9901 RTF .8635
 SGB 3458.3 R23 -.0798 R13 .9967
 SG1 3387.9 SG2 694.4 TMA 73.60

ORBIT DETERMINATION ACCURACY

ST 546.4 SR 2848.6 SS 1127.9
 CRT .8950 CRS -.9982 CST -.9200
 LSA 3102.4 MSA 244.9 SSA .8
 EL1 2890.5 EL2 240.2 ALF 80.19

LAUNCH DATE FEB 15 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 379.085

RL 147.78 LAL .00 LOL 146.14 VL 27.715 GAL -4.42 AZL 156.73 MCA 176.56 SMA 129.10 ECC .16357 INC66.7254 V1 30.150
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.534 GAP 2.81 AZP 23.31 TAL 203.68 TAP 20.25 RCA 107.98 APO 150.21 V2 34.790
 RC 116.435 GL -52.63 GP 59.10 ZAL 94.45 ZAP 92.68 ETS 169.01 ZAE 58.24 ETE 251.22 ZAC 48.64 ETC 297.07 CLP 95.23

PLANETOCENTRIC CONIC

C31020.247 VHL 31.941 DLA -33.19 RAL 61.45 RAD 6573.0 VEL 33.787 PTH 3.50 VHP 40.492 DPA 37.73 RAP 254.84 ECC17.7907
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.92 9 28 53 2001.92 -.27 36.05 331.85 123.19 10 2 15 1401.9 4.10 29.76
 108.08 14 4 38 1121.68 -.25 330.61 331.86 123.19 14 23 20 521.7 4.12 324.33
 71.92 9 28 53 2001.92 -.27 36.05 331.85 123.19 10 2 15 1401.9 4.10 29.76
 108.08 14 4 38 1121.68 -.25 330.61 331.86 123.19 14 23 20 521.7 4.12 324.33
 110.00 13 14 7 1276.86 -7.53 337.84 327.07 123.44 13 35 23 676.9 -3.08 331.58
 110.00 15 18 35 894.75 7.00 317.80 336.64 123.54 15 33 30 294.7 11.36 311.43

DIFFERENTIAL CORRECTIONS

TDE 4.3115 TRA .5367 TC3 -.0616 BAU 2.8552
 RD-11.4234 RRA 8.6435 RC3 .2001 FAU-.04614
 FDE-2.2495 FRA 1.8269 FC3 .0391 BSP 9528
 BDE12.2100 BRA 8.6602 BC3 .2093 FSP -166

MID-COURSE EXECUTION ACCURACY

SGT 875.3 SGR 3043.8 SG3 53.2
 RRT -.7036 RRF .9994 RTF -.6784
 SGB 3167.2 R23 -.0760 R13 .9971
 SG1 3108.1 SG2 609.2 TMA 101.90

ORBIT DETERMINATION ACCURACY

ST 774.3 SR 2123.5 SS 1470.5
 CRT -.9525 CRS -.9998 CST .9467
 LSA 2686.5 MSA 232.0 SSA .4
 EL1 2249.3 EL2 222.6 ALF 109.35

LAUNCH DATE FEB 15 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.679 GAL -5.08 AZL 29.28 MCA 183.69 SMA 128.85 ECC .17104 INC60.7176 V1 30.150
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.511 GAP 4.23 AZP 150.67 TAL 206.11 TAP 29.80 RCA 106.81 APO 150.89 V2 34.794
 RC 118.823 GL 54.91 GP -63.46 ZAL 95.46 ZAP 94.51 ETS 181.73 ZAE 66.15 ETE 100.69 ZAC 78.83 ETC 65.58 CLP 100.14

PLANETOCENTRIC CONIC

C3 863.750 VHL 29.390 DLA 66.48 RAL 8.32 RAD 6572.9 VEL 31.385 PTH 3.47 VHP 36.062 DPA -77.39 RAP 183.99 ECC15.2151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.96 15 7 59 5062.12 -.07 244.71 278.31 23.52 16 32 21 4462.1 -7.40 241.92
 153.04 1 21 38 3333.48 -.06 99.07 278.29 23.52 2 17 12 2733.5 -7.39 96.28
 26.96 15 7 59 5062.12 -.07 244.71 278.31 23.52 16 32 21 4462.1 -7.40 241.92
 153.04 1 21 38 3333.48 -.06 99.07 278.29 23.52 2 17 12 2733.5 -7.39 96.28
 26.96 15 7 59 5062.12 -.07 244.71 278.31 23.52 16 32 21 4462.1 -7.40 241.92
 153.04 1 21 38 3333.48 -.06 99.07 278.29 23.52 2 17 12 2733.5 -7.39 96.28

DIFFERENTIAL CORRECTIONS

TDE-2.5500 TRA 1.7749 TC3 -.0861 BAU 2.5130
 RD-14.2822 RRA 2.3208 RC3 -.1999 FAU-.03718
 FDE 2.8464 FRA -.4518 FC3 .0373 BSP 10550
 BOE14.5080 BRA 2.9217 BC3 .2176 FSP -179

MID-COURSE EXECUTION ACCURACY

SGT 1120.2 SGR 3227.7 SG3 55.0
 RRT .8191 RRF -.9998 RTF -.8112
 SGB 3416.5 R23 -.0674 R13 -.9976
 SG1 3360.3 SG2 617.2 THA 73.56

ORBIT DETERMINATION ACCURACY

ST 561.3 SR 2805.3 SS 1741.4
 CRT .9357 CRS 1.0000 CST .9347
 LSA 3343.4 MSA 196.1 SSA 1.1
 EL1 2854.2 EL2 194.7 ALF 79.35

LAUNCH DATE FEB 15 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.643 GAL -4.70 AZL 56.59 MCA 185.95 SMA 128.60 ECC .16976 INC33.4088 V1 30.150
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.488 GAP 4.25 AZP 123.27 TAL 204.18 TAP 30.13 RCA 106.77 APO 150.43 V2 34.798
 RC 121.206 GL 63.35 GP -77.85 ZAL 98.85 ZAP 98.03 ETS 204.88 ZAE 83.68 ETE 123.34 ZAC 92.61 ETC 90.73 CLP 131.58

PLANETOCENTRIC CONIC

C3 288.046 VHL 16.972 DLA 67.68 RAL 342.65 RAD 6571.7 VEL 20.233 PTH 3.15 VHP 20.474 DPA -77.59 RAP 92.69 ECC 5.7405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.56 13 22 26 4974.62 -5.86 243.48 250.24 22.44 14 45 21 4374.6 -13.24 240.77
 154.44 23 38 26 3236.97 -5.85 96.30 250.23 22.44 24 32 23 2637.0 -13.23 93.59
 25.56 13 22 26 4974.62 -5.86 243.48 250.24 22.44 14 45 21 4374.6 -13.24 240.77
 154.44 23 38 26 3236.97 -5.85 96.30 250.23 22.44 24 32 23 2637.0 -13.23 93.59
 25.56 13 22 26 4974.62 -5.86 243.48 250.24 22.44 14 45 21 4374.6 -13.24 240.77
 154.44 23 38 26 3236.97 -5.85 96.30 250.23 22.44 24 32 23 2637.0 -13.23 93.59

DIFFERENTIAL CORRECTIONS

TDE 2.4945 TRA .1033 TC3 -.0179 BAU .3592
 RDE-6.2253 RRA 3.4151 RC3 -.0915 FAU-.00221
 FDE 1.5356 FRA -.6702 FC3 .0067 BSP 11917
 BOE 6.7065 BRA 3.4166 BC3 .0933 FSP -222

MID-COURSE EXECUTION ACCURACY

SGT 849.3 SGR 3705.3 SG3 68.3
 RRT -.4678 RRF -.9924 RTF .5670
 SGB 3801.4 R23 -.0941 R13 -.9947
 SG1 3727.5 SG2 746.2 THA 96.38

ORBIT DETERMINATION ACCURACY

ST 842.6 SR 2290.5 SS 970.1
 CRT -.9040 CRS .9970 CST -.9342
 LSA 2603.9 MSA 342.4 SSA 1.6
 EL1 2416.6 EL2 341.4 ALF 108.78

LAUNCH DATE FEB 15 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.605 GAL -4.44 AZL 67.74 MCA 188.79 SMA 128.34 ECC .16968 INC22.2590 V1 30.150
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.465 GAP 4.43 AZP 112.02 TAL 202.69 TAP 31.48 RCA 106.56 APO 150.11 V2 34.803
 RC 123.581 GL 63.08 GP -77.60 ZAL 102.25 ZAP 102.40 ETS 265.40 ZAE 93.50 ETE 183.38 ZAC 99.49 ETC 151.89 CLP 179.93

PLANETOCENTRIC CONIC

C3 136.706 VHL 11.692 DLA 64.58 RAL 338.34 RAD 6570.5 VEL 16.064 PTH 2.83 VHP 13.899 DPA -69.65 RAP 66.83 ECC 3.2498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.19 13 13 27 4846.48 -12.82 238.16 242.14 26.12 14 34 14 4246.5 -19.98 234.84
 150.81 23 13 1 3133.34 -12.82 95.00 242.12 26.12 24 5 15 2533.3 -19.97 91.68
 29.19 13 13 27 4846.48 -12.82 238.16 242.14 26.12 14 34 14 4246.5 -19.98 234.84
 150.81 23 13 1 3133.34 -12.82 95.00 242.12 26.12 24 5 15 2533.3 -19.97 91.68
 29.19 13 13 27 4846.48 -12.82 238.16 242.14 26.12 14 34 14 4246.5 -19.98 234.84
 150.81 23 13 1 3133.34 -12.82 95.00 242.12 26.12 24 5 15 2533.3 -19.97 91.68

DIFFERENTIAL CORRECTIONS

TDE 4.0083 TRA-2.6612 TC3 -.1681 BAU .3135
 RDE -.7148 RRA 1.3285 RC3 .0344 FAU .01201
 FDE 1.2425 FRA -.7177 FC3 -.0760 BSP 12446
 BOE 4.0715 BRA 2.9744 BC3 .1715 FSP -292

MID-COURSE EXECUTION ACCURACY

SGT 3638.7 SGR 1558.5 SG3 89.5
 RRT -.9392 RRF -.9103 RTF .9959
 SGB 3958.5 R23 -.1242 R13 -.9908
 SG1 3927.3 SG2 495.7 THA 157.71

ORBIT DETERMINATION ACCURACY

ST 2165.4 SR 574.2 SS 788.5
 CRT -.8869 CRS .8623 CST -.9987
 LSA 2360.1 MSA 264.6 SSA 1.9
 EL1 2225.3 EL2 258.1 ALF 166.58

LAUNCH DATE FEB 15 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

RL 147.78 LAL .00 LOL 146.14 VL 27.566 GAL -4.20 AZL 73.37 MCA 191.79 SMA 128.07 ECC .17000 INC16.6256 V1 30.150
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.441 GAP 4.65 AZP 106.29 TAL 201.30 TAP 33.10 RCA 106.30 APO 149.85 V2 34.808
 RC 125.948 GL 60.35 GP -71.83 ZAL 105.13 ZAP 107.10 ETS 292.77 ZAE 100.46 ETE 209.71 ZAC 103.97 ETC 179.30 CLP-160.58

PLANETOCENTRIC CONIC

C3 81.930 VHL 9.051 DLA 61.44 RAL 340.59 RAD 6569.6 VEL 14.258 PTH 2.60 VHP 10.671 DPA -62.66 RAP 56.11 ECC 2.3484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.89 13 31 16 4724.73 -18.79 231.99 239.93 30.33 14 50 0 4124.7 -25.63 227.94
 147.11 23 13 9 3041.16 -18.78 93.14 239.91 30.33 24 3 50 2441.2 -25.63 89.09
 32.89 13 31 16 4724.73 -18.79 231.99 239.93 30.33 14 50 0 4124.7 -25.63 227.94
 147.11 23 13 9 3041.16 -18.78 93.14 239.91 30.33 24 3 50 2441.2 -25.63 89.09
 32.89 13 31 16 4724.73 -18.79 231.99 239.93 30.33 14 50 0 4124.7 -25.63 227.94
 147.11 23 13 9 3041.16 -18.78 93.14 239.91 30.33 24 3 50 2441.2 -25.63 89.09

DIFFERENTIAL CORRECTIONS

TDE 3.0621 TRA-2.5791 TC3 -.5049 BAU .5590
 RDE .7876 RRA -.0447 RC3 -.0743 FAU .02224
 FDE 1.2563 FRA -.7516 FC3 -.2350 BSP 12799
 BOE 3.1617 BRA 2.5795 BC3 .5103 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 4031.6 SGR 519.8 SG3 116.0
 RRT .6162 RRF .7343 RTF .9841
 SGB 4065.0 R23 .1544 R13 .9854
 SG1 4044.5 SG2 408.0 THA 4.59

ORBIT DETERMINATION ACCURACY

ST 2192.5 SR 498.9 SS 783.3
 CRT .9002 CRS -.9481 CST -.9919
 LSA 2370.2 MSA 227.1 SSA 2.5
 EL1 2238.5 EL2 212.8 ALF 11.68

LAUNCH DATE FEB 15 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 411.857

RL 147.78 LAL .00 LOL 146.14 VL 27.527 GAL -3.96 AZL 76.73 HCA 194.87 SMA 127.81 ECC .17053 INC13.2726 V1 30.150
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.418 GAP 4.88 AZP 102.84 TAL 199.94 TAP 34.81 RCA 106.01 APO 149.60 V2 34.815
 RC 128.306 GL 57.01 GP -65.60 ZAL 107.39 ZAP 111.87 ETS 300.97 ZAE 105.95 ETE 216.31 ZAC 107.42 ETC 187.09 CLP-154.36

PLANETOCENTRIC CONIC

C3 56.493 VHL 7.516 OLA 58.61 RAL 344.43 RAD 6569.0 VEL 13.336 PTH 2.44 VHP 8.862 DPA -56.31 RAP 49.86 ECC 1.9297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.28 13 55 8 4620.70 -23.23 225.77 239.26 34.53 15 12 9 4020.7 -29.73 220.98
 143.72 23 19 54 2968.66 -23.22 91.08 239.24 34.53 24 9 23 2368.7 -29.72 86.28
 36.28 13 55 8 4620.70 -23.23 225.77 239.26 34.53 15 12 9 4020.7 -29.73 220.98
 143.72 23 19 54 2968.66 -23.22 91.08 239.24 34.53 24 9 23 2368.7 -29.72 86.28
 36.28 13 55 8 4620.70 -23.23 225.77 239.26 34.53 15 12 9 4020.7 -29.73 220.98
 143.72 23 19 54 2968.66 -23.22 91.08 239.24 34.53 24 9 23 2368.7 -29.72 86.28

DIFFERENTIAL CORRECTIONS

TDE 2.5400 TRA-2.2703 TC3 -.8848 BAU .6875
 RDE .9383 RRA -.2932 RC3 -.2135 FAU .03147
 FDE 1.3245 FRA -.7717 FC3 -.4822 BSP 13335
 BDE 2.7078 BRA 2.2891 BC3 .9102 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 4069.1 SGR 893.7 SG3 145.1
 RRT .8902 RRF .9590 RTF .9763
 SGB 4166.1 R23 .1788 R13 .9799
 SG1 4146.9 SG2 399.4 THA 11.17

ORBIT DETERMINATION ACCURACY

ST 2178.1 SR 726.8 SS 815.6
 CRT .9561 CRS -.9894 CST -.9885
 LSA 2426.5 MSA 223.7 SSA 3.1
 EL1 2287.2 EL2 202.8 ALF 17.84

LAUNCH DATE FEB 15 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 417.794

RL 147.78 LAL .00 LOL 146.14 VL 27.487 GAL -3.72 AZL 78.95 HCA 197.97 SMA 127.53 ECC .17118 INC11.0510 V1 30.150
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.395 GAP 5.12 AZP 100.52 TAL 198.56 TAP 36.53 RCA 105.70 APO 149.37 V2 34.821
 RC 130.653 GL 53.67 GP -59.74 ZAL 109.04 ZAP 116.51 ETS 304.40 ZAE 110.47 ETE 217.62 ZAC 110.33 ETC 189.75 CLP-152.34

PLANETOCENTRIC CONIC

C3 42.591 VHL 6.526 OLA 56.12 RAL 348.57 RAD 6568.6 VEL 12.805 PTH 2.33 VHP 7.762 DPA -50.45 RAP 45.85 ECC 1.7009
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.29 14 19 42 4534.28 -26.35 219.88 239.16 38.47 15 35 17 3934.3 -32.49 214.40
 140.71 23 28 25 2914.16 -26.34 89.08 239.15 38.46 24 16 59 2314.2 -32.48 83.61
 39.29 14 19 42 4534.28 -26.35 219.88 239.16 38.47 15 35 17 3934.3 -32.49 214.40
 140.71 23 28 25 2914.16 -26.34 89.08 239.15 38.46 24 16 59 2314.2 -32.48 83.61
 39.29 14 19 42 4534.28 -26.35 219.88 239.16 38.47 15 35 17 3934.3 -32.49 214.40
 140.71 23 28 25 2914.16 -26.34 89.08 239.15 38.46 24 16 59 2314.2 -32.48 83.61

DIFFERENTIAL CORRECTIONS

TDE 2.4038 TRA-1.9070 TC3-1.1781 BAU .6876
 RDE .9385 RRA -.2363 RC3 -.2651 FAU .03475
 FDE 1.4863 FRA -.6563 FC3 -.7063 BSP 10315
 BDE 2.5805 BRA 1.9215 BC3 1.2076 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 3979.7 SGR 968.0 SG3 164.4
 RRT .8796 RRF .9657 RTF .9608
 SGB 4095.7 R23 .2304 R13 .9665
 SG1 4070.9 SG2 450.2 THA 12.23

ORBIT DETERMINATION ACCURACY

ST 2295.1 SR 831.5 SS 899.7
 CRT .9641 CRS -.9951 CST -.9856
 LSA 2590.6 MSA 239.4 SSA 3.8
 EL1 2432.2 EL2 208.5 ALF 19.40

LAUNCH DATE FEB 15 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 423.710

RL 147.78 LAL .00 LOL 146.14 VL 27.446 GAL -3.48 AZL 80.53 HCA 201.10 SMA 127.26 ECC .17201 INC 9.4669 V1 30.150
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.372 GAP 5.36 AZP 98.84 TAL 197.19 TAP 38.29 RCA 105.37 APO 149.15 V2 34.829
 RC 132.989 GL 50.48 GP -54.36 ZAL 110.14 ZAP 120.95 ETS 306.23 ZAE 114.19 ETE 216.98 ZAC 112.90 ETC 190.56 CLP-151.97

PLANETOCENTRIC CONIC

C3 34.117 VHL 5.841 OLA 53.92 RAL 352.66 RAD 6568.3 VEL 12.469 PTH 2.26 VHP 7.064 DPA -45.04 RAP 43.20 ECC 1.5615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.98 14 43 37 4462.20 -28.46 214.43 239.41 42.05 15 57 59 3862.2 -34.25 208.38
 138.02 23 37 7 2874.19 -28.45 87.31 239.40 42.05 24 25 1 2274.2 -34.24 81.26
 41.98 14 43 37 4462.20 -28.46 214.43 239.41 42.05 15 57 59 3862.2 -34.25 208.38
 138.02 23 37 7 2874.19 -28.45 87.31 239.40 42.05 24 25 1 2274.2 -34.24 81.26
 41.98 14 43 37 4462.20 -28.46 214.43 239.41 42.05 15 57 59 3862.2 -34.25 208.38
 138.02 23 37 7 2874.19 -28.45 87.31 239.40 42.05 24 25 1 2274.2 -34.24 81.26

DIFFERENTIAL CORRECTIONS

TDE 2.1316 TRA-1.8215 TC3-1.7065 BAU .7999
 RDE .7954 RRA -.2565 RC3 -.4042 FAU .04513
 FDE 1.4446 FRA -.6965 FC3-1.1452 BSP 13331
 BDE 2.2752 BRA 1.8394 BC3 1.7537 FSP -637

MID-COURSE EXECUTION ACCURACY

SGT 4189.5 SGR 1007.1 SG3 196.0
 RRT .9170 RRF .9776 RTF .9630
 SGB 4308.8 R23 .2175 R13 .9676
 SG1 4290.9 SG2 392.3 THA 12.54

ORBIT DETERMINATION ACCURACY

ST 2281.2 SR 790.8 SS 890.9
 CRT .9694 CRS -.9969 CST -.9856
 LSA 2564.2 MSA 219.4 SSA 4.8
 EL1 2407.4 EL2 183.9 ALF 18.69

LAUNCH DATE FEB 15 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 429.636

RL 147.78 LAL .00 LOL 146.14 VL 27.405 GAL -3.23 AZL 81.72 HCA 204.23 SMA 126.98 ECC .17294 INC 8.2757 V1 30.150
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.349 GAP 5.61 AZP 97.56 TAL 195.79 TAP 40.02 RCA 105.02 APO 148.94 V2 34.837
 RC 135.313 GL 47.52 GP -49.53 ZAL 110.72 ZAP 125.09 ETS 307.46 ZAE 117.24 ETE 215.51 ZAC 115.26 ETC 190.62 CLP-152.34

PLANETOCENTRIC CONIC

C3 28.514 VHL 5.340 OLA 52.02 RAL 356.65 RAD 6568.1 VEL 12.243 PTH 2.20 VHP 6.611 DPA -40.06 RAP 41.50 ECC 1.4693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.34 15 6 32 4401.56 -29.88 209.54 240.01 45.21 16 19 53 3801.6 -35.34 203.01
 135.66 23 46 0 2844.68 -29.87 85.81 240.00 45.20 24 33 25 2244.7 -35.33 79.27
 44.34 15 6 32 4401.56 -29.88 209.54 240.01 45.21 16 19 53 3801.6 -35.34 203.01
 135.66 23 46 0 2844.68 -29.87 85.81 240.00 45.20 24 33 25 2244.7 -35.33 79.27
 44.34 15 6 32 4401.56 -29.88 209.54 240.01 45.21 16 19 53 3801.6 -35.34 203.01
 135.66 23 46 0 2844.68 -29.87 85.81 240.00 45.20 24 33 25 2244.7 -35.33 79.27

DIFFERENTIAL CORRECTIONS

TDE 2.0141 TRA-1.6650 TC3-2.1621 BAU .8431
 RDE .7032 RRA -.2107 RC3 -.4657 FAU .05047
 FDE 1.4479 FRA -.6315 FC3-1.5323 BSP 13782
 BDE 2.1334 BRA 1.6783 BC3 2.2117 FSP -720

MID-COURSE EXECUTION ACCURACY

SGT 4293.2 SGR 975.6 SG3 216.9
 RRT .9182 RRF .9760 RTF .9586
 SGB 4402.6 R23 .2245 R13 .9628
 SG1 4386.4 SG2 378.2 THA 11.88

ORBIT DETERMINATION ACCURACY

ST 2331.1 SR 762.7 SS 907.6
 CRT .9718 CRS -.9979 CST -.9850
 LSA 2606.5 MSA 214.1 SSA 5.8
 EL1 2446.7 EL2 171.5 ALF 17.73

LAUNCH DATE FEB 15 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 27.363 GAL -2.97 AZL 82.66 HCA 207.38 SMA 126.71 ECC .17399 INC 7.3429 V1 30.150
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.326 GAP 5.85 AZP 96.53 TAL 194.37 TAP 41.75 RCA 104.66 APO 148.75 V2 34.846
 RC 137.625 GL 44.78 GP -45.22 ZAL 110.83 ZAP 128.90 ETS 308.41 ZAE 119.72 ETE 213.66 ZAC 117.47 ETC 190.34 CLP-153.08

PLANETOCENTRIC CONIC
 C3 24.584 VHL 4.958 DLA 50.39 RAL .54 RAD 6568.0 VEL 12.081 PTH 2.16 VHP 6.317 DPA -35.52 RAP 40.49 ECC 1.4046
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.41 15 28 30 4349.94 -30.83 205.19 240.95 47.95 16 41 0 3749.9 -35.98 198.27
 133.59 23 55 6 2822.79 -30.82 84.56 240.94 47.94 24 42 8 2222.8 -35.97 77.65
 46.41 15 28 30 4349.94 -30.83 205.19 240.95 47.95 16 41 0 3749.9 -35.98 198.27
 133.59 23 55 6 2822.79 -30.82 84.56 240.94 47.94 24 42 8 2222.8 -35.97 77.65
 46.41 15 28 30 4349.94 -30.83 205.19 240.95 47.95 16 41 0 3749.9 -35.98 198.27
 133.59 23 55 6 2822.79 -30.82 84.56 240.94 47.94 24 42 8 2222.8 -35.97 77.65

DIFFERENTIAL CORRECTIONS
 TDE 1.9333 TRA-1.5164 TC3-2.6191 BAU .8763 SGT 4392.0 SGR 925.7 SG3 232.8 ST 2382.7 SR 728.5 SS 916.4
 RDE .6256 RRA -.1645 RC3 -.4997 FAU .05410 RRT .9153 RRF .9713 RTF .9543 CRT .9735 CRS -.9985 CST -.9844
 FDE 1.4296 FRA -.5413 FC3-1.9053 BSP 14067 SGB 4488.5 R23 .2277 R13 .9580 LSA 2646.5 MSA 209.2 SSA 6.8
 BDE 2.0320 BRA 1.5253 BC3 2.6663 FSP -774 SG1 4473.5 SG2 366.2 THA 10.99 EL1 2486.4 EL2 159.6 ALF 16.65

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 15 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 27.321 GAL -2.70 AZL 83.41 HCA 210.53 SMA 126.43 ECC .17516 INC 6.5888 V1 30.150
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.304 GAP 6.10 AZP 95.68 TAL 192.92 TAP 43.45 RCA 104.28 APO 148.57 V2 34.855
 RC 139.923 GL 42.23 GP -41.40 ZAL 110.53 ZAP 132.39 ETS 309.19 ZAE 121.72 ETE 211.67 ZAC 119.58 ETC 189.89 CLP-154.00

PLANETOCENTRIC CONIC
 C3 21.702 VHL 4.659 DLA 48.97 RAL 4.38 RAD 6567.9 VEL 11.962 PTH 2.13 VHP 6.131 DPA -31.38 RAP 40.00 ECC 1.3572
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.21 15 49 42 4305.55 -31.46 201.34 242.23 50.31 17 1 28 3705.6 -36.34 194.12
 131.79 0 8 28 2806.41 -31.45 83.54 242.22 50.30 0 55 15 2206.4 -36.33 76.32
 48.21 15 49 42 4305.55 -31.46 201.34 242.23 50.31 17 1 28 3705.6 -36.34 194.12
 131.79 0 8 28 2806.41 -31.45 83.54 242.22 50.30 0 55 15 2206.4 -36.33 76.32
 48.21 15 49 42 4305.55 -31.46 201.34 242.23 50.31 17 1 28 3705.6 -36.34 194.12
 131.79 0 8 28 2806.41 -31.45 83.54 242.22 50.30 0 55 15 2206.4 -36.33 76.32

DIFFERENTIAL CORRECTIONS
 TDE 1.8735 TRA-1.3749 TC3-3.0791 BAU .9057 SGT 4491.7 SGR 872.2 SG3 244.4 ST 2431.9 SR 694.1 SS 917.0
 RDE .5613 RRA -.1244 RC3 -.5143 FAU .05640 RRT .9103 RRF .9640 RTF .9504 CRT .9752 CRS -.9990 CST -.9838
 FDE 1.3923 FRA -.4385 FC3-2.2499 BSP 14356 SGB 4575.6 R23 .2256 R13 .9537 LSA 2682.4 MSA 204.2 SSA 8.0
 BDE 1.9558 BRA 1.3805 BC3 3.1217 FSP -813 SG1 4561.8 SG2 355.4 THA 10.09 EL1 2524.7 EL2 147.9 ALF 15.61

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 15 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 27.278 GAL -2.43 AZL 84.04 HCA 213.69 SMA 126.15 ECC .17646 INC 5.9633 V1 30.150
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.282 GAP 6.35 AZP 94.97 TAL 191.46 TAP 45.15 RCA 103.89 APO 148.41 V2 34.865
 RC 142.207 GL 39.86 GP -38.03 ZAL 109.84 ZAP 135.56 ETS 309.87 ZAE 123.32 ETE 209.68 ZAC 121.63 ETC 189.39 CLP-155.02

PLANETOCENTRIC CONIC
 C3 19.517 VHL 4.418 DLA 47.75 RAL 8.21 RAD 6567.8 VEL 11.870 PTH 2.11 VHP 6.022 DPA -27.62 RAP 39.92 ECC 1.3212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.80 16 10 20 4267.07 -31.87 197.95 243.85 52.34 17 21 27 3667.1 -36.52 190.48
 130.20 0 18 24 2794.11 -31.86 82.72 243.84 52.33 1 4 58 2194.1 -36.51 75.26
 49.80 16 10 20 4267.07 -31.87 197.95 243.85 52.34 17 21 27 3667.1 -36.52 190.48
 130.20 0 18 24 2794.11 -31.86 82.72 243.84 52.33 1 4 58 2194.1 -36.51 75.26
 49.80 16 10 20 4267.07 -31.87 197.95 243.85 52.34 17 21 27 3667.1 -36.52 190.48
 130.20 0 18 24 2794.11 -31.86 82.72 243.84 52.33 1 4 58 2194.1 -36.51 75.26

DIFFERENTIAL CORRECTIONS
 TDE 1.8276 TRA-1.2356 TC3-3.5379 BAU .9328 SGT 4590.3 SGR 820.6 SG3 252.2 ST 2477.6 SR 662.3 SS 910.7
 RDE .5089 RRA -.0908 RC3 -.5149 FAU .05758 RRT .9038 RRF .9543 RTF .9470 CRT .9772 CRS -.9994 CST -.9831
 FDE 1.3406 FRA -.3287 FC3-2.5543 BSP 14648 SGB 4663.0 R23 .2184 R13 .9497 LSA 2714.2 MSA 199.0 SSA 9.2
 BDE 1.8972 BRA 1.2390 BC3 3.5752 FSP -840 SG1 4650.1 SG2 346.7 THA 9.23 EL1 2561.0 EL2 136.1 ALF 14.88

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 15 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 27.235 GAL -2.14 AZL 84.57 HCA 216.85 SMA 125.87 ECC .17788 INC 5.4332 V1 30.150
 RP 108.66 LAP -3.26 LOP 37.260 GAP 6.60 AZP 94.35 TAL 189.97 TAP 46.82 RCA 103.48 APO 148.26 V2 34.875
 RC 144.478 GL 37.63 GP -35.05 ZAL 108.81 ZAP 138.45 ETS 310.44 ZAE 124.59 ETE 207.75 ZAC 123.64 ETC 188.87 CLP-156.09

PLANETOCENTRIC CONIC
 C3 17.817 VHL 4.221 DLA 46.69 RAL 12.07 RAD 6567.7 VEL 11.798 PTH 2.09 VHP 5.968 DPA -24.20 RAP 40.17 ECC 1.2932
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.19 16 30 37 4233.43 -32.13 194.94 245.79 54.10 17 41 10 3633.4 -36.56 187.29
 128.81 0 28 54 2784.96 -32.11 82.07 245.78 54.09 1 15 19 2185.0 -36.55 74.42
 51.19 16 30 37 4233.43 -32.13 194.94 245.79 54.10 17 41 10 3633.4 -36.56 187.29
 128.81 0 28 54 2784.96 -32.11 82.07 245.78 54.09 1 15 19 2185.0 -36.55 74.42
 51.19 16 30 37 4233.43 -32.13 194.94 245.79 54.10 17 41 10 3633.4 -36.56 187.29
 128.81 0 28 54 2784.96 -32.11 82.07 245.78 54.09 1 15 19 2185.0 -36.55 74.42

DIFFERENTIAL CORRECTIONS
 TDE 1.7932 TRA-1.0949 TC3-3.9881 BAU .9575 SGT 4685.5 SGR 773.6 SG3 256.6 ST 2521.3 SR 635.1 SS 899.9
 RDE .4670 RRA -.0626 RC3 -.5044 FAU .05777 RRT .8952 RRF .9419 RTF .9439 CRT .9794 CRS -.9997 CST -.9825
 FDE 1.2812 FRA -.2156 FC3-2.8072 BSP 14905 SGB 4748.9 R23 .2074 R13 .9461 LSA 2744.6 MSA 193.6 SSA 10.4
 BDE 1.8530 BRA 1.0967 BC3 4.0199 FSP -851 SG1 4736.7 SG2 341.0 THA 8.45 EL1 2597.1 EL2 124.5 ALF 13.89

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 15 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 459.152

RL 147.78 LAL .00 LOL 146.14 VL 27.193 GAL -1.84 AZL 85.02 MCA 220.02 SMA 125.59 ECC .17945 INC 4.9756 V1 30.150
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.239 GAP 6.85 AZP 93.81 TAL 188.47 TAP 48.49 RCA 103.06 APO 148.13 V2 34.885
 RC 146.734 GL 35.50 GP -32.42 ZAL 107.46 ZAP 141.08 ETS 310.92 ZAE 125.61 ETE 205.95 ZAC 125.64 ETC 188.37 CLP-157.18

PLANETOCENTRIC CONIC

C3 16.474 VHL 4.059 DLA 45.75 RAL 15.98 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 5.956 DPA -21.09 RAP 40.68 ECC 1.2711
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.43 16 50 44 4203.83 -32.27 192.27 248.04 55.61 18 0 48 3603.8 -36.52 184.47
 127.57 0 39 59 2778.39 -32.26 81.57 248.03 55.60 1 26 17 2178.4 -36.51 73.77
 52.43 16 50 44 4203.83 -32.27 192.27 248.04 55.61 18 0 48 3603.8 -36.52 184.47
 127.57 0 39 59 2778.39 -32.26 81.57 248.03 55.60 1 26 17 2178.4 -36.51 73.77
 52.43 16 50 44 4203.83 -32.27 192.27 248.04 55.61 18 0 48 3603.8 -36.52 184.47
 127.57 0 39 59 2778.39 -32.26 81.57 248.03 55.60 1 26 17 2178.4 -36.51 73.77

DIFFERENTIAL CORRECTIONS

TDE 1.7630 TRA -.9530 TC3-4.4299 BAU .9816
 RDE .4328 RRA -.0396 RC3 -.4878 FAU .05730
 FDE 1.2136 FRA -.1050 FC3-3.0109 BSP 15209
 BDE 1.8154 BRA .9539 BC3 4.4567 FSP -858

MID-COURSE EXECUTION ACCURACY

SGT 4779.4 SGR 732.5 SG3 258.5
 RRT .8853 RRF .9269 RTF .9413
 SGB 4835.2 R23 .1922 R13 .9432
 SG1 4823.5 SG2 337.5 THA 7.76

ORBIT DETERMINATION ACCURACY

ST 2557.3 SR 611.5 SS 883.1
 CRT .9820 CRS -.9997 CST -.9818
 LSA 2767.4 MSA 187.9 SSA 11.8
 EL1 2627.0 EL2 112.6 ALF 13.24

LAUNCH DATE FEB 15 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 465.023

RL 147.78 LAL .00 LOL 146.14 VL 27.150 GAL -1.53 AZL 85.43 MCA 223.18 SMA 125.32 ECC .18116 INC 4.5744 V1 30.150
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.218 GAP 7.10 AZP 93.34 TAL 186.95 TAP 50.14 RCA 102.61 APO 148.02 V2 34.897
 RC 148.977 GL 33.47 GP -30.10 ZAL 105.82 ZAP 143.48 ETS 311.31 ZAE 126.42 ETE 204.28 ZAC 127.64 ETC 187.89 CLP-158.26

PLANETOCENTRIC CONIC

C3 15.404 VHL 3.925 DLA 44.91 RAL 19.97 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 5.976 DPA -18.24 RAP 41.42 ECC 1.2535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.56 17 10 53 4177.62 -32.32 189.89 250.59 56.94 18 20 30 3577.6 -36.41 181.97
 126.44 0 51 40 2774.10 -32.31 81.21 250.58 56.92 1 37 54 2174.1 -36.40 73.30
 53.56 17 10 53 4177.62 -32.32 189.89 250.59 56.94 18 20 30 3577.6 -36.41 181.97
 126.44 0 51 40 2774.10 -32.31 81.21 250.58 56.92 1 37 54 2174.1 -36.40 73.30
 53.56 17 10 53 4177.62 -32.32 189.89 250.59 56.94 18 20 30 3577.6 -36.41 181.97
 126.44 0 51 40 2774.10 -32.31 81.21 250.58 56.92 1 37 54 2174.1 -36.40 73.30

DIFFERENTIAL CORRECTIONS

TDE 1.7361 TRA -.8081 TC3-4.8579 BAU 1.0051
 RDE .4052 RRA -.0207 RC3 -.4679 FAU .05632
 FDE 1.1416 FRA .0011 FC3-3.1652 BSP 15532
 BDE 1.7828 BRA .8083 BC3 4.8804 FSP -860

MID-COURSE EXECUTION ACCURACY

SGT 4872.3 SGR 697.5 SG3 258.5
 RRT .8741 RRF .9096 RTF .9395
 SGB 4921.9 R23 .1739 R13 .9410
 SG1 4910.4 SG2 336.2 THA 7.17

ORBIT DETERMINATION ACCURACY

ST 2585.8 SR 591.7 SS 861.4
 CRT .9848 CRS -.9994 CST -.9811
 LSA 2783.0 MSA 181.7 SSA 13.2
 EL1 2650.7 EL2 100.4 ALF 12.72

LAUNCH DATE FEB 15 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 470.883

RL 147.78 LAL .00 LOL 146.14 VL 27.107 GAL -1.21 AZL 85.78 MCA 226.36 SMA 125.04 ECC .18302 INC 4.2176 V1 30.150
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.198 GAP 7.36 AZP 92.91 TAL 185.42 TAP 51.77 RCA 102.16 APO 147.93 V2 34.908
 RC 151.204 GL 31.50 GP -28.04 ZAL 103.91 ZAP 145.67 ETS 311.59 ZAE 127.06 ETE 202.75 ZAC 129.64 ETC 187.44 CLP-159.34

PLANETOCENTRIC CONIC

C3 14.551 VHL 3.815 DLA 44.13 RAL 24.05 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 6.021 DPA -15.63 RAP 42.34 ECC 1.2395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.61 17 31 12 4154.28 -32.29 187.73 253.43 58.10 18 40 26 3554.3 -36.24 179.72
 125.39 1 3 54 2771.96 -32.28 81.00 253.42 58.09 1 50 6 2172.0 -36.23 72.99
 54.61 17 31 12 4154.28 -32.29 187.73 253.43 58.10 18 40 26 3554.3 -36.24 179.72
 125.39 1 3 54 2771.96 -32.28 81.00 253.42 58.09 1 50 6 2172.0 -36.23 72.99
 54.61 17 31 12 4154.28 -32.29 187.73 253.43 58.10 18 40 26 3554.3 -36.24 179.72
 125.39 1 3 54 2771.96 -32.28 81.00 253.42 58.09 1 50 6 2172.0 -36.23 72.99

DIFFERENTIAL CORRECTIONS

TDE 1.7099 TRA -.6581 TC3-5.2643 BAU 1.0277
 RDE .3830 RRA -.0045 RC3 -.4458 FAU .05494
 FDE 1.0669 FRA .1028 FC3-3.2689 BSP 15853
 BDE 1.7523 BRA .6581 BC3 5.2831 FSP -856

MID-COURSE EXECUTION ACCURACY

SGT 4962.2 SGR 668.3 SG3 256.8
 RRT .8613 RRF .8901 RTF .9381
 SGB 5007.0 R23 .1542 R13 .9393
 SG1 4995.6 SG2 337.5 THA 6.65

ORBIT DETERMINATION ACCURACY

ST 2604.2 SR 575.3 SS 835.3
 CRT .9877 CRS -.9986 CST -.9802
 LSA 2789.2 MSA 175.6 SSA 14.7
 EL1 2665.5 EL2 87.9 ALF 12.32

LAUNCH DATE FEB 15 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 476.729

RL 147.78 LAL .00 LOL 146.14 VL 27.064 GAL -.88 AZL 86.10 MCA 229.53 SMA 124.77 ECC .18504 INC 3.8965 V1 30.150
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.177 GAP 7.62 AZP 92.53 TAL 183.87 TAP 53.40 RCA 101.68 APO 147.85 V2 34.920
 RC 153.416 GL 29.58 GP -26.22 ZAL 101.75 ZAP 147.68 ETS 311.76 ZAE 127.58 ETE 201.36 ZAC 131.66 ETC 187.01 CLP-160.40

PLANETOCENTRIC CONIC

C3 13.878 VHL 3.725 DLA 43.40 RAL 28.23 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 6.087 DPA -13.22 RAP 43.43 ECC 1.2284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.63 17 51 53 4133.15 -32.17 185.74 256.54 59.14 19 0 46 3533.1 -36.00 177.67
 124.37 1 16 34 2772.20 -32.16 80.93 256.53 59.13 2 2 46 2172.2 -35.99 72.86
 55.63 17 51 53 4133.15 -32.17 185.74 256.54 59.14 19 0 46 3533.1 -36.00 177.67
 124.37 1 16 34 2772.20 -32.16 80.93 256.53 59.13 2 2 46 2172.2 -35.99 72.86
 55.63 17 51 53 4133.15 -32.17 185.74 256.54 59.14 19 0 46 3533.1 -36.00 177.67
 124.37 1 16 34 2772.20 -32.16 80.93 256.53 59.13 2 2 46 2172.2 -35.99 72.86

DIFFERENTIAL CORRECTIONS

TDE 1.6874 TRA -.4979 TC3-5.6280 BAU 1.0471
 RDE .3662 RRA .0104 RC3 -.4201 FAU .05308
 FDE .9954 FRA .2030 FC3-3.3111 BSP 16042
 BDE 1.7266 BRA .4980 BC3 5.6436 FSP -837

MID-COURSE EXECUTION ACCURACY

SGT 5042.7 SGR 644.7 SG3 253.6
 RRT .8462 RRF .8688 RTF .9368
 SGB 5083.7 R23 .1359 R13 .9378
 SG1 5072.2 SG2 341.6 THA 6.20

ORBIT DETERMINATION ACCURACY

ST 2617.4 SR 563.3 SS 809.0
 CRT .9907 CRS -.9969 CST -.9791
 LSA 2791.6 MSA 170.0 SSA 16.2
 EL1 2676.3 EL2 75.0 ALF 12.05

LAUNCH DATE FEB 15 1969

FLIGHT TIME 166.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 482.562

RL 147.78 LAL .00 LOL 146.14 VL 27.021 GAL -.53 AZL 86.40 MCA 232.71 SMA 124.50 ECC .18724 INC 3.6042 V1 30.150
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.158 GAP 7.89 AZP 92.19 TAL 182.30 TAP 55.02 RCA 101.18 APO 147.81 V2 34.932
 RC 155.612 GL 27.69 GP -24.60 ZAL 99.36 ZAP 149.54 ETS 311.82 ZAE 128.00 ETE 200.10 ZAC 133.70 ETC 186.61 CLP-161.45

PLANETOCENTRIC CONIC

C3 13.362 VHL 3.655 DLA 42.67 RAL 32.51 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 6.170 DPA -11.00 RAP 44.65 ECC 1.2199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.63 18 13 2 4113.84 -31.97 183.89 259.91 60.08 19 21 36 3513.8 -35.68 175.77
 123.37 1 29 31 2774.95 -31.96 81.04 259.90 60.07 2 15 46 2174.9 -35.67 72.92
 56.63 18 13 2 4113.84 -31.97 183.89 259.91 60.08 19 21 36 3513.8 -35.68 175.77
 123.37 1 29 31 2774.95 -31.96 81.04 259.90 60.07 2 15 46 2174.9 -35.67 72.92
 56.63 18 13 2 4113.84 -31.97 183.89 259.91 60.08 19 21 36 3513.8 -35.68 175.77
 123.37 1 29 31 2774.95 -31.96 81.04 259.90 60.07 2 15 46 2174.9 -35.67 72.92

DIFFERENTIAL CORRECTIONS

TDE 1.6565 TRA -3.341 TC3-5.9630 BAU 1.0675
 RDE .3518 RRA .0232 RC3 -.3966 FAU .05117
 FDE .9176 FRA .2948 FC3-3.3157 BSP 16367
 BDE 1.6934 BRA .3349 BC3 5.9762 FSP -830

MID-COURSE EXECUTION ACCURACY

SGT 5123.7 SGR 625.0 SG3 249.5
 RRT .8308 RRF .8461 RTF .9363
 SGB 5161.7 R23 .1162 R13 .9371
 SG1 5150.1 SG2 346.1 THA 5.81

ORBIT DETERMINATION ACCURACY

ST 2608.5 SR 551.7 SS 774.3
 CRT .9935 CRS -.9941 CST -.9776
 LSA 2771.4 MSA 164.4 SSA 17.8
 EL1 2665.5 EL2 61.6 ALF 11.87

LAUNCH DATE FEB 15 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 488.379

RL 147.78 LAL .00 LOL 146.14 VL 26.978 GAL -.17 AZL 86.66 MCA 235.89 SMA 124.23 ECC .18962 INC 3.3355 V1 30.150
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.138 GAP 8.16 AZP 91.87 TAL 180.73 TAP 56.62 RCA 100.67 APO 147.78 V2 34.945
 RC 157.792 GL 25.82 GP -23.16 ZAL 96.77 ZAP 151.25 ETS 311.76 ZAE 128.34 ETE 198.97 ZAC 135.77 ETC 186.22 CLP-162.47

PLANETOCENTRIC CONIC

C3 12.986 VHL 3.604 DLA 41.94 RAL 36.87 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 6.268 DPA -8.94 RAP 46.00 ECC 1.2137
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.67 18 34 46 4095.89 -31.68 182.11 263.50 60.94 19 43 2 3495.9 -35.28 173.96
 122.33 1 42 42 2780.55 -31.67 81.31 263.50 60.93 2 29 2 2180.6 -35.27 73.16
 57.67 18 34 46 4095.89 -31.68 182.11 263.50 60.94 19 43 2 3495.9 -35.28 173.96
 122.33 1 42 42 2780.55 -31.67 81.31 263.50 60.93 2 29 2 2180.6 -35.27 73.16
 57.67 18 34 46 4095.89 -31.68 182.11 263.50 60.94 19 43 2 3495.9 -35.28 173.96
 122.33 1 42 42 2780.55 -31.67 81.31 263.50 60.93 2 29 2 2180.6 -35.27 73.16

DIFFERENTIAL CORRECTIONS

TDE 1.6188 TRA -.1623 TC3-6.2668 BAU 1.0899
 RDE .3405 RRA .0358 RC3 -.3770 FAU .04938
 FDE .8397 FRA .3840 FC3-3.2918 BSP 16779
 BDE 1.6543 BRA .1662 BC3 6.2781 FSP -828

MID-COURSE EXECUTION ACCURACY

SGT 5210.0 SGR 610.6 SG3 245.7
 RRT .8155 RRF .8238 RTF .9361
 SGB 5245.7 R23 .0984 R13 .9367
 SG1 5233.9 SG2 351.8 THA 5.48

ORBIT DETERMINATION ACCURACY

ST 2579.6 SR 542.0 SS 736.3
 CRT .9959 CRS -.9895 CST -.9753
 LSA 2732.0 MSA 160.5 SSA 19.6
 EL1 2635.5 EL2 48.1 ALF 11.82

LAUNCH DATE FEB 15 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 494.181

RL 147.78 LAL .00 LOL 146.14 VL 26.935 GAL .20 AZL 86.91 MCA 239.08 SMA 123.96 ECC .19220 INC 3.0860 V1 30.150
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.119 GAP 8.44 AZP 91.59 TAL 179.15 TAP 58.22 RCA 100.13 APO 147.78 V2 34.957
 RC 159.953 GL 23.97 GP -21.87 ZAL 94.00 ZAP 152.84 ETS 311.57 ZAE 128.62 ETE 197.95 ZAC 137.85 ETC 185.85 CLP-163.48

PLANETOCENTRIC CONIC

C3 12.740 VHL 3.569 DLA 41.17 RAL 41.30 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.380 DPA -7.03 RAP 47.46 ECC 1.2097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.77 18 57 11 4078.70 -31.28 180.37 267.31 61.74 20 5 10 3478.7 -34.78 172.20
 121.23 1 55 32 2789.53 -31.27 81.86 267.30 61.73 2 42 2 2189.5 -34.77 73.69
 58.77 18 57 11 4078.70 -31.28 180.37 267.31 61.74 20 5 10 3478.7 -34.78 172.20
 121.23 1 55 32 2789.53 -31.27 81.86 267.30 61.73 2 42 2 2189.5 -34.77 73.69
 58.77 18 57 11 4078.70 -31.28 180.37 267.31 61.74 20 5 10 3478.7 -34.78 172.20
 121.23 1 55 32 2789.53 -31.27 81.86 267.30 61.73 2 42 2 2189.5 -34.77 73.69

DIFFERENTIAL CORRECTIONS

TDE 1.5830 TRA .0239 TC3-6.4698 BAU 1.1035
 RDE .3334 RRA .0486 RC3 -.3470 FAU .04668
 FDE .7707 FRA .4726 FC3-3.1721 BSP 16826
 BDE 1.6177 BRA .0542 BC3 6.4791 FSP -788

MID-COURSE EXECUTION ACCURACY

SGT 5271.7 SGR 598.8 SG3 239.3
 RRT .7949 RRF .8003 RTF .9349
 SGB 5305.6 R23 .0883 R13 .9355
 SG1 5293.3 SG2 361.8 THA 5.18

ORBIT DETERMINATION ACCURACY

ST 2544.9 SR 536.2 SS 703.0
 CRT .9978 CRS -.9828 CST -.9729
 LSA 2689.4 MSA 158.1 SSA 21.2
 EL1 2600.6 EL2 34.6 ALF 11.88

LAUNCH DATE FEB 15 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 499.966

RL 147.78 LAL .00 LOL 146.14 VL 26.892 GAL .59 AZL 87.15 MCA 242.26 SMA 123.69 ECC .19499 INC 2.8526 V1 30.150
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.100 GAP 8.73 AZP 91.33 TAL 177.55 TAP 59.82 RCA 99.57 APO 147.81 V2 34.970
 RC 162.097 GL 22.13 GP -20.72 ZAL 91.07 ZAP 154.31 ETS 311.25 ZAE 128.85 ETE 197.04 ZAC 139.96 ETC 185.49 CLP-164.47

PLANETOCENTRIC CONIC

C3 12.621 VHL 3.553 DLA 40.35 RAL 45.78 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.504 DPA -5.25 RAP 49.01 ECC 1.2077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.96 19 20 20 4061.96 -30.77 178.62 271.29 62.50 20 28 2 3462.0 -34.18 170.45
 120.04 2 8 7 2802.25 -30.76 82.64 271.28 62.49 2 54 49 2202.2 -34.18 74.47
 59.96 19 20 20 4061.96 -30.77 178.62 271.29 62.50 20 28 2 3462.0 -34.18 170.45
 120.04 2 8 7 2802.25 -30.76 82.64 271.28 62.49 2 54 49 2202.2 -34.18 74.47
 59.96 19 20 20 4061.96 -30.77 178.62 271.29 62.50 20 28 2 3462.0 -34.18 170.45
 120.04 2 8 7 2802.25 -30.76 82.64 271.28 62.49 2 54 49 2202.2 -34.18 74.47

DIFFERENTIAL CORRECTIONS

TDE 1.5305 TRA .2085 TC3-6.6404 BAU 1.1218
 RDE .3266 RRA .0592 RC3 -.3265 FAU .04456
 FDE .6931 FRA .5456 FC3-3.0564 BSP 17105
 BDE 1.5650 BRA .2167 BC3 6.6485 FSP -771

MID-COURSE EXECUTION ACCURACY

SGT 5343.0 SGR 589.1 SG3 233.4
 RRT .7784 RRF .7775 RTF .9363
 SGB 5375.4 R23 .0719 R13 .9367
 SG1 5362.8 SG2 368.4 THA 4.93

ORBIT DETERMINATION ACCURACY

ST 2476.0 SR 528.2 SS 658.6
 CRT .9989 CRS -.9730 CST -.9698
 LSA 2611.2 MSA 155.6 SSA 22.8
 EL1 2531.6 EL2 24.5 ALF 12.03

LAUNCH DATE FEB 15 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 505.733

RL 147.78 LAL .00 LOL 146.14 VL 26.850 GAL 1.00 AZL 87.37 HCA 245.45 SMA 123.43 ECC .19800 INC 2.6322 V1 30.150
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.082 GAP 9.02 AZP 91.09 TAL 175.95 TAP 61.41 RCA 98.99 APO 147.87 V2 34.983
 RC 164.221 GL 20.30 GP -19.68 ZAL 88.02 ZAP 155.69 ETS 310.80 ZAE 129.05 ETE 196.22 ZAC 142.09 ETC 185.12 CLP-165.43

PLANETOCENTRIC CONIC

C3 12.626 VHL 3.553 DLA 39.47 RAL 50.27 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.639 DPA -3.58 RAP 50.65 ECC 1.2078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.27 19 44 16 4045.04 -30.15 176.82 275.42 63.22 20 51 41 3445.0 -33.48 168.67
 118.73 2 20 0 2819.34 -30.14 83.71 275.41 63.21 3 7 0 2219.3 -33.47 75.56
 61.27 19 44 16 4045.04 -30.15 176.82 275.42 63.22 20 51 41 3445.0 -33.48 168.67
 118.73 2 20 0 2819.34 -30.14 83.71 275.41 63.21 3 7 0 2219.3 -33.47 75.56
 61.27 19 44 16 4045.04 -30.15 176.82 275.42 63.22 20 51 41 3445.0 -33.48 168.67
 118.73 2 20 0 2819.34 -30.14 83.71 275.41 63.21 3 7 0 2219.3 -33.47 75.56

DIFFERENTIAL CORRECTIONS

TDE 1.4723 TRA .4095 TC3-6.7285 BAU 1.1369
 RDE .3221 RRA .0711 RC3 -.3047 FAU .04224
 FDE .6193 FRA .6208 FC3-2.8965 BSP 17279
 BOE 1.5071 BRA .4156 BC3 6.7354 FSP -747

MID-COURSE EXECUTION ACCURACY

SGT 5406.7 SGR 582.0 SG3 227.2
 RRT .7612 RRF .7560 RTF .9370
 SGB 5437.9 R23 .0604 R13 .9374
 SG1 5424.9 SG2 376.2 THA 4.71

ORBIT DETERMINATION ACCURACY

ST 2392.2 SR 521.4 SS 615.8
 CRT .9986 CRS -.9585 CST -.9655
 LSA 2519.6 MSA 156.7 SSA 24.1
 EL1 2448.2 EL2 26.7 ALF 12.28

LAUNCH DATE FEB 15 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 511.479

RL 147.78 LAL .00 LOL 146.14 VL 26.808 GAL 1.42 AZL 87.58 HCA 248.65 SMA 123.17 ECC .20126 INC 2.4226 V1 30.150
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.064 GAP 9.33 AZP 90.88 TAL 174.35 TAP 63.00 RCA 98.38 APO 147.96 V2 34.996
 RC 166.326 GL 18.49 GP -18.74 ZAL 84.86 ZAP 156.98 ETS 310.20 ZAE 129.22 ETE 195.48 ZAC 144.24 ETC 184.75 CLP-166.38

PLANETOCENTRIC CONIC

C3 12.758 VHL 3.572 DLA 38.52 RAL 54.74 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 6.786 DPA -2.02 RAP 52.36 ECC 1.2100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.72 20 9 2 4027.42 -29.41 174.92 279.66 63.92 21 16 10 3427.4 -32.65 166.80
 117.28 2 30 54 2841.44 -29.40 85.13 279.65 63.91 3 18 16 2241.4 -32.64 77.01
 62.72 20 9 2 4027.42 -29.41 174.92 279.66 63.92 21 16 10 3427.4 -32.65 166.80
 117.28 2 30 54 2841.44 -29.40 85.13 279.65 63.91 3 18 16 2241.4 -32.64 77.01
 62.72 20 9 2 4027.42 -29.41 174.92 279.66 63.92 21 16 10 3427.4 -32.65 166.80
 117.28 2 30 54 2841.44 -29.40 85.13 279.65 63.91 3 18 16 2241.4 -32.64 77.01

DIFFERENTIAL CORRECTIONS

TDE 1.4001 TRA .6175 TC3-6.7509 BAU 1.1525
 RDE .3186 RRA .0831 RC3 -.2847 FAU .04001
 FDE .5438 FRA .6907 FC3-2.7150 BSP 17527
 BOE 1.4359 BRA .6231 BC3 6.7569 FSP -730

MID-COURSE EXECUTION ACCURACY

SGT 5468.5 SGR 575.8 SG3 220.8
 RRT .7445 RRF .7352 RTF .9380
 SGB 5498.7 R23 .0500 R13 .9383
 SG1 5485.4 SG2 383.2 THA 4.50

ORBIT DETERMINATION ACCURACY

ST 2282.4 SR 513.6 SS 569.8
 CRT .9964 CRS -.9371 CST -.9596
 LSA 2402.3 MSA 161.6 SSA 25.0
 EL1 2339.0 EL2 42.6 ALF 12.64

LAUNCH DATE FEB 15 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 517.203

RL 147.78 LAL .00 LOL 146.14 VL 26.766 GAL 1.86 AZL 87.78 HCA 251.84 SMA 122.91 ECC .20478 INC 2.2218 V1 30.150
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.046 GAP 9.65 AZP 90.69 TAL 172.74 TAP 64.58 RCA 97.74 APO 148.08 V2 35.010
 RC 168.410 GL 16.70 GP -17.90 ZAL 81.64 ZAP 158.18 ETS 309.44 ZAE 129.36 ETE 194.81 ZAC 146.41 ETC 184.36 CLP-167.32

PLANETOCENTRIC CONIC

C3 13.023 VHL 3.609 DLA 37.49 RAL 59.16 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 6.944 DPA -.56 RAP 54.15 ECC 1.2143
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.33 20 34 39 4008.60 -28.55 172.90 283.99 64.60 21 41 28 3408.6 -31.72 164.82
 115.67 2 40 31 2869.08 -28.54 86.93 283.98 64.58 3 28 20 2269.1 -31.71 78.85
 64.33 20 34 39 4008.60 -28.55 172.90 283.99 64.60 21 41 28 3408.6 -31.72 164.82
 115.67 2 40 31 2869.08 -28.54 86.93 283.98 64.58 3 28 20 2269.1 -31.71 78.85
 64.33 20 34 39 4008.60 -28.55 172.90 283.99 64.60 21 41 28 3408.6 -31.72 164.82
 115.67 2 40 31 2869.08 -28.54 86.93 283.98 64.58 3 28 20 2269.1 -31.71 78.85

DIFFERENTIAL CORRECTIONS

TDE 1.3165 TRA .8351 TC3-6.6982 BAU 1.1671
 RDE .3163 RRA .0955 RC3 -.2654 FAU .03779
 FDE .4695 FRA .7564 FC3-2.5125 BSP 17762
 BOE 1.3539 BRA .8406 BC3 6.7034 FSP -711

MID-COURSE EXECUTION ACCURACY

SGT 5525.6 SGR 570.4 SG3 214.0
 RRT .7281 RRF .7155 RTF .9392
 SGB 5555.0 R23 .0412 R13 .9394
 SG1 5541.3 SG2 389.9 THA 4.32

ORBIT DETERMINATION ACCURACY

ST 2154.3 SR 505.5 SS 524.7
 CRT .9910 CRS -.9064 CST -.9520
 LSA 2267.6 MSA 170.8 SSA 25.4
 EL1 2211.8 EL2 65.8 ALF 13.10

LAUNCH DATE FEB 15 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 522.903

RL 147.78 LAL .00 LOL 146.14 VL 26.724 GAL 2.32 AZL 87.97 HCA 255.04 SMA 122.66 ECC .20859 INC 2.0281 V1 30.150
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.028 GAP 9.98 AZP 90.52 TAL 171.13 TAP 66.17 RCA 97.07 APO 148.24 V2 35.023
 RC 170.474 GL 14.95 GP -17.14 ZAL 78.39 ZAP 159.32 ETS 308.52 ZAE 129.48 ETE 194.21 ZAC 148.60 ETC 183.95 CLP-168.24

PLANETOCENTRIC CONIC

C3 13.427 VHL 3.664 DLA 36.40 RAL 63.48 RAD 6567.5 VEL 11.611 PTH 2.03 VHP 7.113 DPA .82 RAP 56.01 ECC 1.2210
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.11 21 1 15 3987.72 -27.59 170.70 288.37 65.25 22 7 43 3387.7 -30.68 162.67
 113.89 2 48 26 2903.19 -27.58 89.18 288.36 65.24 3 36 49 2303.2 -30.67 81.15
 66.11 21 1 15 3987.72 -27.59 170.70 288.37 65.25 22 7 43 3387.7 -30.68 162.67
 113.89 2 48 26 2903.19 -27.58 89.18 288.36 65.24 3 36 49 2303.2 -30.67 81.15
 66.11 21 1 15 3987.72 -27.59 170.70 288.37 65.25 22 7 43 3387.7 -30.68 162.67
 113.89 2 48 26 2903.19 -27.58 89.18 288.36 65.24 3 36 49 2303.2 -30.67 81.15

DIFFERENTIAL CORRECTIONS

TDE 1.2264 TRA 1.0679 TC3-6.5615 BAU 1.1787
 RDE .3156 RRA .1088 RC3 -.2459 FAU .03554
 FDE .3997 FRA .8216 FC3-2.2913 BSP 17891
 BOE 1.2664 BRA 1.0734 BC3 6.5662 FSP -687

MID-COURSE EXECUTION ACCURACY

SGT 5577.1 SGR 566.2 SG3 207.3
 RRT .7129 RRF .6980 RTF .9404
 SGB 5605.8 R23 .0345 R13 .9405
 SG1 5591.8 SG2 396.1 THA 4.16

ORBIT DETERMINATION ACCURACY

ST 2021.3 SR 497.5 SS 484.9
 CRT .9810 CRS -.8637 CST -.9430
 LSA 2129.1 MSA 185.7 SSA 25.1
 EL1 2079.5 EL2 93.9 ALF 13.60

LAUNCH DATE FEB 15 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 16 1969

MELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.682 GAL 2.80 AZL 88.16 HCA 258.24 SMA 122.41 ECC .21270 INC 1.8400 V1 30.150
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.011 GAP 10.33 AZP 90.37 TAL 169.52 TAP 67.76 RCA 96.37 APO 148.44 V2 35.036
 RC 172.518 GL 13.23 GP -16.45 ZAL 75.13 ZAP 160.38 ETS 307.42 ZAE 129.59 ETE 193.67 ZAC 150.80 ETC 183.49 CLP-169.15

PLANETOCENTRIC CONIC
 C3 13.982 VHL 3.739 DLA 35.24 RAL 67.69 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 7.295 DPA 2.10 RAP 57.92 ECC 1.2301
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.08 21 28 55 3964.05 -26.52 168.27 292.77 65.89 22 34 59 3364.1 -29.54 160.29
 111.92 2 54 19 2944.56 -26.51 91.94 292.76 65.88 3 43 24 2344.6 -29.53 83.96
 68.08 21 28 55 3964.05 -26.52 168.27 292.77 65.89 22 34 59 3364.1 -29.54 160.29
 111.92 2 54 19 2944.56 -26.51 91.94 292.76 65.88 3 43 24 2344.6 -29.53 83.96
 68.08 21 28 55 3964.05 -26.52 168.27 292.77 65.89 22 34 59 3364.1 -29.54 160.29
 111.92 2 54 19 2944.56 -26.51 91.94 292.76 65.88 3 43 24 2344.6 -29.53 83.96

MID-COURSE EXECUTION ACCURACY
 SGT 5626.0 SGR 561.5 SG3 200.5
 RRT .6983 RRF .6810 RTF .9417
 SGB 5653.9 R23 .0280 R13 .9419
 SG1 5639.7 SG2 400.9 THA 4.01

ORBIT DETERMINATION ACCURACY
 ST 1874.8 SR 488.1 SS 446.9
 CRT .9635 CRS -.8035 CST -.9317
 LSA 1977.3 MSA 206.8 SSA 24.4
 EL1 1933.2 EL2 126.7 ALF 14.14

DIFFERENTIAL CORRECTIONS
 TOE 1.1214 TRA 1.3078 TC3-6.3678 BAU 1.1910
 ROE .3153 RRA .1223 RC3 -.2281 FAU .03342
 FDE .3291 FRA .8816 FC3-2.0694 BSP 18109
 BOE 1.1649 BRA 1.3136 BC3 6.3719 FSP -669

LAUNCH DATE FEB 15 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 18 1969

MELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.641 GAL 3.31 AZL 88.34 HCA 261.44 SMA 122.16 ECC .21715 INC 1.6560 V1 30.150
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.994 GAP 10.69 AZP 90.25 TAL 187.91 TAP 69.35 RCA 95.63 APO 148.69 V2 35.050
 RC 174.540 GL 11.56 GP -15.82 ZAL 71.89 ZAP 161.38 ETS 306.13 ZAE 129.69 ETE 193.18 ZAC 153.02 ETC 182.99 CLP-170.05

PLANETOCENTRIC CONIC
 C3 14.700 VHL 3.834 DLA 34.04 RAL 71.74 RAD 6567.6 VEL 11.666 PTH 2.05 VHP 7.490 DPA 3.31 RAP 59.89 ECC 1.2419
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.27 21 57 56 3936.26 -25.37 165.52 297.18 66.50 23 3 32 3336.3 -28.32 157.60
 109.73 2 57 41 2994.52 -25.36 95.30 297.17 66.49 3 47 35 2394.5 -28.31 87.38
 70.27 21 57 56 3936.26 -25.37 165.52 297.18 66.50 23 3 32 3336.3 -28.32 157.60
 109.73 2 57 41 2994.52 -25.36 95.30 297.17 66.49 3 47 35 2394.5 -28.31 87.38
 110.00 3 23 7 2916.96 -27.35 90.16 298.09 68.65 4 11 44 2317.0 -30.00 81.97
 110.00 2 35 37 3061.82 -23.41 99.57 296.19 64.35 3 26 38 2461.8 -26.66 91.92

MID-COURSE EXECUTION ACCURACY
 SGT 5669.9 SGR 556.8 SG3 193.7
 RRT .6844 RRF .6655 RTF .9430
 SGB 5697.1 R23 .0230 R13 .9431
 SG1 5682.7 SG2 405.0 THA 3.86

ORBIT DETERMINATION ACCURACY
 ST 1732.3 SR 478.4 SS 416.3
 CRT .9350 CRS -.7245 CST -.9201
 LSA 1829.7 MSA 233.9 SSA 23.3
 EL1 1789.6 EL2 164.2 ALF 14.60

DIFFERENTIAL CORRECTIONS
 TOE 1.0078 TRA 1.5606 TC3-6.1109 BAU 1.2017
 ROE .3162 RRA .1366 RC3 -.2103 FAU .03131
 FDE .2622 FRA .9399 FC3-1.8441 BSP 18291
 BOE 1.0563 BRA 1.5666 BC3 6.1146 FSP -649

LAUNCH DATE FEB 15 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 20 1969

MELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.600 GAL 3.83 AZL 88.52 HCA 264.65 SMA 121.92 ECC .22197 INC 1.4750 V1 30.150
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.977 GAP 11.07 AZP 90.14 TAL 166.30 TAP 70.95 RCA 94.85 APO 148.98 V2 35.063
 RC 176.542 GL 9.96 GP -15.25 ZAL 68.71 ZAP 162.32 ETS 304.64 ZAE 129.78 ETE 192.73 ZAC 155.25 ETC 182.41 CLP-170.93

PLANETOCENTRIC CONIC
 C3 15.599 VHL 3.950 DLA 32.80 RAL 75.63 RAD 6567.6 VEL 11.704 PTH 2.06 VHP 7.698 DPA 4.44 RAP 61.91 ECC 1.2567
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.72 22 28 45 3902.50 -24.14 162.33 301.57 67.10 23 33 48 3302.5 -27.03 154.47
 107.28 2 57 52 3054.90 -24.13 99.39 301.57 67.09 3 48 47 2454.9 -27.02 91.53
 72.72 22 28 45 3902.50 -24.14 162.33 301.57 67.10 23 33 48 3302.5 -27.03 154.47
 107.28 2 57 52 3054.90 -24.13 99.39 301.57 67.09 3 48 47 2454.9 -27.02 91.53
 110.00 4 28 21 2776.42 -30.45 80.40 304.10 73.66 5 14 38 2176.4 -32.39 71.72
 110.00 2 1 23 3228.98 -18.12 109.66 298.40 60.51 2 55 12 2629.0 -21.91 102.57

MID-COURSE EXECUTION ACCURACY
 SGT 5709.1 SGR 551.8 SG3 187.0
 RRT .6715 RRF .6513 RTF .9443
 SGB 5735.7 R23 .0187 R13 .9444
 SG1 5781.1 SG2 408.0 THA 3.73

ORBIT DETERMINATION ACCURACY
 ST 1600.8 SR 468.0 SS 393.5
 CRT .8908 CRS -.6257 CST -.9102
 LSA 1692.6 MSA 266.3 SSA 22.0
 EL1 1655.0 EL2 205.6 ALF 14.83

DIFFERENTIAL CORRECTIONS
 TOE .8854 TRA 1.8260 TC3-5.8032 BAU 1.2109
 ROE .3180 RRA .1515 RC3 -.1930 FAU .02927
 FDE .1982 FRA .9962 FC3-1.6246 BSP 18466
 BOE .9408 BRA 1.8323 BC3 5.8064 FSP -630

LAUNCH DATE FEB 15 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 22 1969

MELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.560 GAL 4.39 AZL 88.70 HCA 267.86 SMA 121.67 ECC .22718 INC 1.2957 V1 30.150
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.960 GAP 11.47 AZP 90.05 TAL 164.70 TAP 72.56 RCA 94.03 APO 149.32 V2 35.076
 RC 178.523 GL 8.43 GP -14.72 ZAL 65.60 ZAP 163.20 ETS 302.92 ZAE 129.85 ETE 192.33 ZAC 157.49 ETC 181.73 CLP-171.81

PLANETOCENTRIC CONIC
 C3 16.699 VHL 4.086 DLA 31.53 RAL 79.34 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 7.920 DPA 5.50 RAP 63.97 ECC 1.2748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.52 23 2 12 3859.76 -22.86 158.49 305.94 67.67 24 6 32 3259.8 -25.69 150.70
 104.48 2 53 58 3128.66 -22.85 104.43 305.94 67.66 3 46 6 2528.7 -25.68 96.64
 75.52 23 2 12 3859.76 -22.86 158.49 305.94 67.67 24 6 32 3259.8 -25.69 150.70
 104.48 2 53 58 3128.66 -22.85 104.43 305.94 67.66 3 46 6 2528.7 -25.68 96.64
 110.00 5 10 56 2703.27 -31.73 75.09 309.16 76.57 5 56 0 2103.3 -33.25 66.19
 110.00 1 48 20 3333.15 -14.53 115.59 301.50 58.71 2 43 53 2733.2 -18.57 108.80

MID-COURSE EXECUTION ACCURACY
 SGT 5742.5 SGR 546.8 SG3 180.5
 RRT .6598 RRF .6390 RTF .9454
 SGB 5768.5 R23 .0161 R13 .9455
 SG1 5753.9 SG2 410.1 THA 3.61

ORBIT DETERMINATION ACCURACY
 ST 1494.5 SR 457.6 SS 380.7
 CRT .8269 CRS -.5149 CST -.9064
 LSA 1580.0 MSA 301.5 SSA 20.7
 EL1 1543.0 EL2 249.3 ALF 14.60

DIFFERENTIAL CORRECTIONS
 TOE .7589 TRA 2.1091 TC3-5.4455 BAU 1.2163
 ROE .3210 RRA .1675 RC3 -.1751 FAU .02718
 FDE .1394 FRA 1.0532 FC3-1.4092 BSP 18532
 BOE .8240 BRA 2.1157 BC3 5.4483 FSP -607

LAUNCH DATE FEB 15 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 550.923

RL 147.78 LAL .00 LOL 146.14 VL 26.519 GAL 4.97 AZL 88.88 HCA 271.07 SMA 121.44 ECC .23283 INC 1.1171 V1 30.150
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.944 GAP 11.90 AZP 89.98 TAL 163.11 TAP 74.18 RCA 93.16 APO 149.71 V2 35.089
 RC 180.483 GL 6.97 GP -14.25 ZAL 62.59 ZAP 164.02 ETS 300.97 ZAE 129.91 ETE 191.96 ZAC 159.74 ETC 180.91 CLP -172.69

PLANETOCENTRIC CONIC

C3 18.024 VHL 4.245 CLA 30.26 RAL 82.84 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 8.158 DPA 6.49 RAP 66.07 ECC 1.2966
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.87 23 40 19 3801.18 -21.54 153.51 310.27 68.23 24 43 40 3201.2 -24.31 145.78
 101.13 2 43 50 3222.58 -21.53 110.91 310.27 68.21 3 37 32 2622.6 -24.30 103.17
 78.87 23 40 19 3801.18 -21.54 153.51 310.27 68.23 24 43 40 3201.2 -24.31 145.78
 101.13 2 43 50 3222.58 -21.53 110.91 310.27 68.21 3 37 32 2622.6 -24.30 103.17
 110.00 5 46 30 2650.24 -32.50 71.15 313.91 78.78 6 30 41 2050.2 -33.71 62.12
 110.00 1 40 45 3421.51 -11.35 120.47 304.84 57.54 2 37 47 2821.5 -15.56 113.88

DIFFERENTIAL CORRECTIONS

TOE .6207 TRA 2.4022 TC3-5.0707 BAU 1.2224
 RDE .3244 RRA .1836 RC3 -.1587 FAU .02526
 FDE .0816 FRA 1.1069 FC3-1.2134 BSP 18699
 BDE .7004 BRA 2.4092 BC3 5.0732 FSP -589

MID-COURSE EXECUTION ACCURACY

SGT 5772.8 SGR 540.5 SG3 174.2
 RRT .6486 RRF .6270 RTF .9468
 SGB 5798.1 R23 .0129 R13 .9468
 SG1 5783.5 SG2 410.7 THA 3.49

ORBIT DETERMINATION ACCURACY

ST 1409.4 SR 446.2 SS 374.5
 CRT .7382 CRS -.3924 CST -.9088
 LSA 1487.2 MSA 337.1 SSA 19.5
 EL1 1449.0 EL2 292.8 ALF 13.73

LAUNCH DATE FEB 15 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 556.399

RL 147.78 LAL .00 LOL 146.14 VL 26.480 GAL 5.59 AZL 89.06 HCA 274.28 SMA 121.20 ECC .23897 INC .9379 V1 30.150
 RP 107.96 LAP -.94 LOP 60.42 VP 36.927 GAP 12.35 AZP 89.93 TAL 161.53 TAP 75.82 RCA 92.24 APO 150.17 V2 35.102
 RC 182.422 GL 5.59 GP -13.81 ZAL 59.68 ZAP 164.79 ETS 298.75 ZAE 129.97 ETE 191.62 ZAC 161.99 ETC 179.89 CLP -173.56

PLANETOCENTRIC CONIC

C3 19.604 VHL 4.428 CLA 28.99 RAL 86.15 RAD 6567.8 VEL 11.874 PTH 2.11 VHP 8.414 DPA 7.42 RAP 68.21 ECC 1.3226
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.52 0 33 34 3705.22 -20.20 145.84 314.56 68.75 1 35 19 3105.2 -22.91 138.16
 96.48 2 20 53 3358.06 -20.19 120.38 314.55 68.74 3 16 51 2758.1 -22.90 112.70
 100.00 3 50 13 3071.30 -25.26 101.07 316.44 73.46 4 41 24 2471.3 -27.28 92.85
 100.00 1 46 56 3467.21 -15.29 126.19 312.30 64.00 2 44 43 2867.2 -18.66 119.02
 110.00 6 17 46 2609.26 -33.00 68.05 318.48 80.55 7 1 15 2009.3 -33.96 58.95
 110.00 1 35 52 3502.02 -8.38 124.80 308.29 56.74 2 34 14 2902.0 -12.70 118.37

DIFFERENTIAL CORRECTIONS

TOE .4765 TRA 2.7109 TC3-4.6770 BAU 1.2263
 RDE .3286 RRA .2003 RC3 -.1428 FAU .02340
 FDE .0272 FRA 1.1598 FC3-1.0333 BSP 18836
 BDE .5788 BRA 2.7183 BC3 4.6792 FSP -572

MID-COURSE EXECUTION ACCURACY

SGT 5798.0 SGR 533.5 SG3 168.0
 RRT .6382 RRF .6160 RTF .9482
 SGB 5822.5 R23 .0100 R13 .9483
 SG1 5808.1 SG2 410.0 THA 3.38

ORBIT DETERMINATION ACCURACY

ST 1357.7 SR 434.5 SS 375.6
 CRT .6267 CRS -.2711 CST -.9187
 LSA 1427.4 MSA 367.9 SSA 18.3
 EL1 1386.4 EL2 331.6 ALF 12.04

LAUNCH DATE FEB 15 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 561.819

RL 147.78 LAL .00 LOL 146.14 VL 26.440 GAL 6.24 AZL 89.24 HCA 277.50 SMA 120.97 ECC .24563 INC .7570 V1 30.150
 RP 107.92 LAP -.75 LOP 63.64 VP 36.911 GAP 12.82 AZP 89.90 TAL 159.97 TAP 77.47 RCA 91.26 APO 150.69 V2 35.114
 RC 184.340 GL 4.30 GP -13.41 ZAL 56.91 ZAP 165.49 ETS 296.26 ZAE 130.01 ETE 191.31 ZAC 164.24 ETC 178.60 CLP -174.43

PLANETOCENTRIC CONIC

C3 21.473 VHL 4.634 CLA 27.74 RAL 89.25 RAD 6567.9 VEL 11.952 PTH 2.13 VHP 8.690 DPA 8.27 RAP 70.39 ECC 1.3534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 29 46 3390.26 -22.88 123.74 320.28 72.84 3 26 17 2790.3 -25.01 115.72
 90.00 0 49 28 3716.60 -14.90 144.33 317.09 65.64 1 51 24 3116.6 -18.07 137.09
 100.00 4 35 58 2983.47 -26.82 95.01 321.48 76.28 5 25 41 2383.5 -28.44 86.58
 100.00 1 25 58 3598.61 -11.23 133.83 315.24 62.11 2 25 56 2998.6 -14.87 126.93
 110.00 6 45 48 2577.13 -33.34 65.61 322.92 81.96 7 28 45 1977.1 -34.09 56.45
 110.00 1 32 37 3657.72 -5.53 128.81 311.80 56.21 2 32 15 2977.7 -9.93 122.49

DIFFERENTIAL CORRECTIONS

TOE .3267 TRA 3.0366 TC3-4.2747 BAU 1.2277
 RDE .3337 RRA .2175 RC3 -.1273 FAU .02158
 FDE -.0235 FRA 1.2130 FC3 -.8701 BSP 18960
 BDE .4670 BRA 3.0443 BC3 4.2766 FSP -554

MID-COURSE EXECUTION ACCURACY

SGT 5818.4 SGR 525.8 SG3 162.2
 RRT .6285 RRF .6060 RTF .9497
 SGB 5842.1 R23 .0078 R13 .9498
 SG1 5827.8 SG2 408.3 THA 3.27

ORBIT DETERMINATION ACCURACY

ST 1340.5 SR 422.5 SS 382.7
 CRT .4998 CRS -.1598 CST -.9338
 LSA 1403.4 MSA 389.8 SSA 17.3
 EL1 1358.3 EL2 361.2 ALF 9.64

LAUNCH DATE FEB 15 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 567.172

RL 147.78 LAL .00 LOL 146.14 VL 26.401 GAL 6.93 AZL 89.43 HCA 280.71 SMA 120.75 ECC .25289 INC .5734 V1 30.150
 RP 107.88 LAP -.56 LOP 66.85 VP 36.895 GAP 13.34 AZP 89.89 TAL 158.43 TAP 79.14 RCA 90.21 APO 151.28 V2 35.126
 RC 186.236 GL 3.09 GP -13.05 ZAL 54.26 ZAP 166.14 ETS 293.46 ZAE 130.04 ETE 191.02 ZAC 166.48 ETC 176.88 CLP -175.31

PLANETOCENTRIC CONIC

C3 23.676 VHL 4.866 CLA 26.52 RAL 92.16 RAD 6568.0 VEL 12.044 PTH 2.15 VHP 8.986 DPA 9.07 RAP 72.59 ECC 1.3897
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 38 3287.33 -24.77 116.80 325.40 75.83 4 14 26 2687.3 -26.48 108.55
 90.00 0 22 48 3866.95 -10.50 153.18 319.88 63.55 1 27 15 3267.0 -13.97 146.22
 100.00 5 11 18 2927.36 -27.67 91.05 326.15 78.20 6 0 5 2327.4 -29.01 82.51
 100.00 1 13 49 3702.15 -7.87 139.68 318.48 61.07 2 15 31 3102.2 -11.67 132.96
 110.00 7 11 12 2552.18 -33.56 63.69 327.27 83.07 7 53 44 1952.2 -34.15 54.50
 110.00 1 30 24 3650.09 -2.78 132.61 315.35 55.92 2 31 14 3050.1 -7.23 126.35

DIFFERENTIAL CORRECTIONS

TOE .1753 TRA 3.3845 TC3-3.8666 BAU 1.2244
 RDE .3397 RRA .2353 RC3 -.1118 FAU .01973
 FDE -.0697 FRA 1.2680 FC3 -.7215 BSP 18967
 BDE .3823 BRA 3.3927 BC3 3.8682 FSP -532

MID-COURSE EXECUTION ACCURACY

SGT 5834.3 SGR 517.5 SG3 156.6
 RRT .6197 RRF .5975 RTF .9512
 SGB 5857.2 R23 .0065 R13 .9512
 SG1 5843.1 SG2 405.5 THA 3.16

ORBIT DETERMINATION ACCURACY

ST 1356.7 SR 410.7 SS 394.2
 CRT .3716 CRS -.0660 CST -.9499
 LSA 1415.7 MSA 400.2 SSA 16.3
 EL1 1366.0 EL2 378.7 ALF 6.96

LAUNCH DATE FEB 15 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.363 GAL 7.67 AZL 89.61 HCA 283.93 SMA 120.52 ECC .26080 INC .3856 V1 30.150
 RP 107.85 LAP -.37 LOP 70.07 VP 36.878 GAP 13.89 AZP 89.91 TAL 156.90 TAP 80.84 RCA 89.09 APO 151.96 V2 35.138
 RC 188.109 GL 1.97 GP -12.72 ZAL 51.76 ZAP 166.73 ETS 290.34 ZAE 130.05 ETE 190.76 ZAC 168.70 ETC 174.49 CLP-176.18

PLANETOCENTRIC CONIC
 C3 26.264 VHL 5.125 DLA 25.34 RAL 94.87 RAD 6568.1 VEL 12.151 PTH 2.18 VHP 9.306 DPA 9.79 RAP 74.81 ECC 1.4322
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 55 47 3227.24 -25.71 112.65 330.06 77.71 4 49 34 2627.2 -27.15 104.27
 90.00 0 8 18 3978.11 -7.06 159.54 323.07 62.51 1 14 36 3378.1 -10.69 152.74
 100.00 5 41 12 2887.36 -28.19 88.20 330.62 79.62 6 29 19 2287.4 -29.33 79.58
 100.00 1 5 34 3793.21 -4.84 144.74 321.85 60.47 2 8 47 3193.2 -8.74 138.13
 110.00 7 34 20 2533.39 -33.70 62.24 331.55 83.92 8 16 34 1933.4 -34.18 53.03
 110.00 1 28 55 3719.95 -.11 136.26 318.91 55.82 2 30 55 3120.0 -4.59 130.04

DIFFERENTIAL CORRECTIONS
 TDE .0134 TRA 3.7469 TC3-3.4754 BAU 1.2208
 RDE .3461 RRA .2529 RC3 -.0977 FAU .01805
 FDE -.1151 FRA 1.3216 FC3 -.5948 BSP 19080
 BDE .3464 BRA 3.7554 BC3 3.4767 FSP -516

MID-COURSE EXECUTION ACCURACY
 SGT 5845.6 SGR 507.6 SG3 151.2
 RRT .6109 RRF .5886 RTF .9531
 SGB 5867.6 R23 .0046 R13 .9531
 SG1 5853.8 SG2 401.3 THA 3.05

ORBIT DETERMINATION ACCURACY
 ST 1394.6 SR 398.2 SS 408.0
 CRT .2460 CRS .0183 CST -.9638
 LSA 1452.3 MSA 400.7 SSA 15.5
 EL1 1398.4 EL2 384.9 ALF 4.35

LAUNCH DATE FEB 15 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.325 GAL 8.45 AZL 89.81 HCA 287.15 SMA 120.31 ECC .26944 INC .1926 V1 30.150
 RP 107.81 LAP -.18 LOP 73.29 VP 36.862 GAP 14.48 AZP 89.94 TAL 155.41 TAP 82.56 RCA 87.89 APO 152.72 V2 35.150
 RC 189.959 GL .93 GP -12.41 ZAL 49.40 ZAP 167.25 ETS 286.88 ZAE 130.05 ETE 190.51 ZAC 170.89 ETC 170.95 CLP-177.07

PLANETOCENTRIC CONIC
 C3 29.298 VHL 5.413 DLA 24.20 RAL 97.40 RAD 6568.2 VEL 12.275 PTH 2.21 VHP 9.654 DPA 10.46 RAP 77.06 ECC 1.4822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 43 3185.98 -26.28 109.76 334.51 79.05 5 18 49 2586.0 -27.52 101.31
 90.00 23 54 35 4073.83 -4.02 164.93 326.41 61.95 25 2 28 3473.8 -7.75 158.23
 100.00 6 7 22 2858.24 -28.53 86.10 334.96 80.67 6 55 0 2258.2 -29.52 77.44
 100.00 0 59 33 3876.80 -2.02 149.35 325.30 60.17 2 4 9 3276.8 -5.98 142.79
 110.00 7 55 28 2520.03 -33.79 61.21 335.76 84.52 8 37 28 1920.0 -34.18 51.99
 110.00 1 27 56 3787.78 2.48 139.79 322.49 55.90 2 31 3 3187.8 -2.01 133.59

DIFFERENTIAL CORRECTIONS
 TDE -.1538 TRA 4.1306 TC3-3.0972 BAU 1.2136
 RDE .3532 RRA .2705 RC3 -.0844 FAU .01640
 FDE -.1577 FRA 1.3765 FC3 -.4846 BSP 19180
 BDE .3853 BRA 4.1395 BC3 3.0983 FSP -500

MID-COURSE EXECUTION ACCURACY
 SGT 5852.1 SGR 496.7 SG3 146.0
 RRT .6021 RRF .5802 RTF .9551
 SGB 5873.1 R23 .0032 R13 .9551
 SG1 5859.7 SG2 396.0 THA 2.94

ORBIT DETERMINATION ACCURACY
 ST 1450.7 SR 385.6 SS 423.5
 CRT .1337 CRS .0881 CST -.9747
 LSA 1509.3 MSA 393.2 SSA 14.7
 EL1 1451.7 EL2 381.9 ALF 2.19

LAUNCH DATE FEB 15 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.287 GAL 9.28 AZL 90.01 HCA 290.38 SMA 120.09 ECC .27890 INC .0000 V1 30.150
 RP 107.78 LAP .01 LOP 76.52 VP 36.846 GAP 15.11 AZP 90.00 TAL 153.95 TAP 84.33 RCA 86.60 APO 153.59 V2 35.161
 RC 191.786 GL -.03 GP -12.13 ZAL 47.18 ZAP 167.70 ETS 283.08 ZAE 130.03 ETE 190.27 ZAC 173.02 ETC 165.24 CLP-177.96

PLANETOCENTRIC CONIC
 C3 32.857 VHL 5.732 DLA 23.11 RAL 99.74 RAD 6568.3 VEL 12.419 PTH 2.24 VHP 10.031 DPA 11.07 RAP 79.31 ECC 1.5407
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 37 3156.75 -26.64 107.69 338.81 80.02 5 44 13 2556.8 -27.75 99.20
 90.00 23 47 24 4160.66 -1.23 169.79 329.82 61.71 24 56 44 3560.7 -5.00 163.14
 100.00 6 30 39 2837.40 -28.75 84.59 339.20 81.44 7 17 57 2237.4 -29.63 75.90
 100.00 0 54 58 3955.24 .64 153.65 328.78 60.11 2 0 53 3355.2 -3.34 147.13
 110.00 8 14 49 2511.54 -33.85 60.55 339.91 84.91 8 56 40 1911.5 -34.18 51.33
 110.00 1 27 18 3853.87 5.00 143.26 326.07 56.14 2 31 32 3253.9 .52 137.04

DIFFERENTIAL CORRECTIONS
 TDE -.3263 TRA 4.5388 TC3-2.7358 BAU 1.2022
 RDE .3610 RRA .2879 RC3 -.0718 FAU .01478
 FDE -.1978 FRA 1.4334 FC3 -.3895 BSP 19247
 BDE .4866 BRA 4.5479 BC3 2.7368 FSP -484

MID-COURSE EXECUTION ACCURACY
 SGT 5854.3 SGR 484.7 SG3 141.0
 RRT .5934 RRF .5723 RTF .9573
 SGB 5874.4 R23 .0021 R13 .9573
 SG1 5861.4 SG2 389.6 THA 2.83

ORBIT DETERMINATION ACCURACY
 ST 1518.2 SR 372.9 SS 439.9
 CRT .0379 CRS .1450 CST -.9826
 LSA 1578.7 MSA 380.7 SSA 14.0
 EL1 1518.3 EL2 372.6 ALF .57

LAUNCH DATE FEB 15 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC
 RL 147.78 LAL .00 LOL 146.14 VL 26.251 GAL 10.18 AZL 90.22 HCA 293.60 SMA 119.88 ECC .28928 INC .2158 V1 30.150
 RP 107.75 LAP .20 LOP 79.74 VP 36.830 GAP 15.81 AZP 90.09 TAL 152.53 TAP 86.13 RCA 85.20 APO 154.56 V2 35.172
 RC 193.588 GL -.92 GP -11.87 ZAL 45.11 ZAP 168.08 ETS 278.92 ZAE 129.99 ETE 190.05 ZAC 175.01 ETC 154.83 CLP-178.87

PLANETOCENTRIC CONIC
 C3 37.033 VHL 6.086 DLA 22.07 RAL 101.92 RAD 6568.4 VEL 12.586 PTH 2.28 VHP 10.443 DPA 11.61 RAP 81.58 ECC 1.6095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 28 3136.37 -26.87 106.25 343.01 80.71 6 6 44 2536.4 -27.88 97.73
 90.00 23 41 52 4241.45 1.38 174.29 333.28 61.71 24 52 33 3641.4 -2.42 167.66
 100.00 6 51 33 2823.29 -28.89 83.56 343.35 81.96 7 38 37 2223.3 -29.70 74.85
 100.00 0 51 23 4029.77 3.16 157.74 332.29 60.26 1 58 33 3429.8 -.82 151.22
 110.00 8 32 31 2507.43 -33.87 60.24 344.02 85.09 9 14 18 1907.4 -34.18 51.00
 110.00 1 26 55 3918.39 7.43 146.66 329.65 56.54 2 32 13 3318.4 2.98 140.41

DIFFERENTIAL CORRECTIONS
 TDE -.5050 TRA 4.9725 TC3-2.3949 BAU 1.1861
 RDE .3695 RRA .3048 RC3 -.0601 FAU .01321
 FDE -.2360 FRA 1.4925 FC3 -.3088 BSP 19305
 BDE .6258 BRA 4.9818 BC3 2.3956 FSP -468

MID-COURSE EXECUTION ACCURACY
 SGT 5851.8 SGR 471.5 SG3 136.3
 RRT .5845 RRF .5643 RTF .9597
 SGB 5870.7 R23 .0012 R13 .9597
 SG1 5858.3 SG2 382.2 THA 2.71

ORBIT DETERMINATION ACCURACY
 ST 1590.8 SR 360.1 SS 456.9
 CRT -.0426 CRS .1920 CST -.9882
 LSA 1653.9 MSA 365.5 SSA 13.3
 EL1 1590.9 EL2 359.7 ALF 179.42

LAUNCH DATE FEB 15 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 592.486

RL 147.78 LAL .00 LOL 146.14 VL 26.215 GAL 11.14 AZL 90.44 HCA 296.83 SMA 119.68 ECC .30071 INC .4355 V1 30.150
 RP 107.71 LAP .39 LOP 82.97 VP 36.814 GAP 16.56 AZP 90.20 TAL 151.15 TAP 87.98 RCA 83.69 APO 155.66 V2 35.182
 RC 195.366 GL -1.73 GP -11.63 ZAL 43.19 ZAP 168.37 ETS 274.43 ZAE 129.92 ETE 189.84 ZAC 176.63 ETC 132.99 CLP-179.80

PLANETOCENTRIC CONIC

C3 41.944 VHL 6.476 DLA 21.09 RAL 103.92 RAD 6568.6 VEL 12.779 PTH 2.32 VHP 10.894 OPA 12.10 RAP 83.84 ECC 1.6903
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 51 3123.01 -27.01 105.30 347.11 81.17 6 26 54 2523.0 -27.96 96.76
 90.00 23 37 28 4317.71 3.83 178.55 336.76 61.92 24 49 26 3717.7 .05 171.92
 100.00 7 10 25 2814.83 -28.97 82.95 347.43 82.28 7 57 20 2214.8 -29.73 74.23
 100.00 0 48 31 4101.12 5.56 161.68 335.80 60.58 1 56 52 3501.1 1.60 155.13
 110.00 8 48 43 2507.29 -33.87 60.22 348.07 85.10 9 30 30 1907.3 -34.18 50.99
 110.00 1 26 42 3981.43 9.78 150.03 333.23 57.08 2 33 3 3381.4 5.38 143.71

DIFFERENTIAL CORRECTIONS

TDE -.6876 TRA 5.4382 TC3-2.0735 BAU 1.1631
 RDE .3788 RRA .3212 RC3 -.0492 FAU .01161
 FDE -.2716 FRA 1.5557 FC3 -.2396 BSP 19270
 BDE .7850 BRA 5.4477 BC3 2.0741 FSP -451

MID-COURSE EXECUTION ACCURACY

SGT 5845.7 SGR 457.3 SG3 131.9
 RRT .5753 RRF .5566 RTF .9622
 SGB 5863.5 R23 .0010 R13 .9622
 SG1 5851.6 SG2 373.7 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 1664.2 SR 347.4 SS 474.0
 CRT -.1079 CRS .2290 CST -.9920
 LSA 1729.9 MSA 349.4 SSA 12.7
 EL1 1664.6 EL2 345.2 ALF 178.65

LAUNCH DATE FEB 15 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 597.118

RL 147.78 LAL .00 LOL 146.14 VL 26.179 GAL 12.19 AZL 90.67 HCA 300.06 SMA 119.48 ECC .31331 INC .6680 V1 30.150
 RP 107.68 LAP .58 LOP 86.20 VP 36.798 GAP 17.39 AZP 90.33 TAL 149.83 TAP 89.89 RCA 82.04 APO 156.91 V2 35.192
 RC 197.118 GL -2.48 GP -11.41 ZAL 41.41 ZAP 168.56 ETS 269.62 ZAE 129.82 ETE 189.63 ZAC 177.19 ETC 92.10 CLP 179.25

PLANETOCENTRIC CONIC

C3 47.734 VHL 6.909 DLA 20.16 RAL 105.76 RAD 6568.8 VEL 13.004 PTH 2.37 VHP 11.390 OPA 12.53 RAP 86.10 ECC 1.7856
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 8 3115.44 -27.09 104.76 351.12 81.43 6 45 3 2515.4 -28.00 96.21
 90.00 23 33 53 4390.29 6.14 182.63 340.24 62.30 24 47 3 3790.3 2.39 175.97
 100.00 7 27 28 2811.23 -29.00 82.68 351.43 82.41 8 14 19 2211.2 -29.75 73.96
 100.00 0 46 9 4169.73 7.84 165.50 339.32 61.06 1 55 39 3569.7 3.92 158.91
 110.00 9 3 32 2510.72 -33.85 60.49 352.06 84.95 9 45 22 1910.7 -34.18 51.26
 110.00 1 26 35 4043.01 12.04 153.37 336.80 57.76 2 33 58 3443.0 7.70 146.97

DIFFERENTIAL CORRECTIONS

TDE -.8239 TRA 5.9316 TC3-1.7793 BAU 1.1357
 RDE .3882 RRA .3362 RC3 -.0395 FAU .01009
 FDE -.3073 FRA 1.6213 FC3 -.1830 BSP 19533
 BDE .9108 BRA 5.9411 BC3 1.7797 FSP -437

MID-COURSE EXECUTION ACCURACY

SGT 5828.4 SGR 441.4 SG3 127.6
 RRT .5716 RRF .5480 RTF .9646
 SGB 5845.1 R23 -.0067 R13 .9645
 SG1 5833.9 SG2 361.9 THA 2.49

ORBIT DETERMINATION ACCURACY

ST 1715.7 SR 334.1 SS 491.7
 CRT -.1392 CRS .2621 CST -.9918
 LSA 1784.4 MSA 335.5 SSA 12.2
 EL1 1716.3 EL2 330.7 ALF 178.39

LAUNCH DATE FEB 15 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 601.536

RL 147.78 LAL .00 LOL 146.14 VL 26.145 GAL 13.32 AZL 90.92 HCA 303.29 SMA 119.28 ECC .32726 INC .9165 V1 30.150
 RP 107.66 LAP .77 LOP 89.43 VP 36.782 GAP 18.29 AZP 90.50 TAL 148.58 TAP 91.87 RCA 80.25 APO 158.32 V2 35.201
 RC 198.846 GL -3.16 GP -11.21 ZAL 39.78 ZAP 168.66 ETS 264.53 ZAE 129.69 ETE 189.43 ZAC 176.23 ETC 56.73 CLP 178.27

PLANETOCENTRIC CONIC

C3 54.585 VHL 7.388 DLA 19.29 RAL 107.45 RAD 6569.0 VEL 13.264 PTH 2.42 VHP 11.937 OPA 12.91 RAP 88.34 ECC 1.8983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 34 3112.77 -27.12 104.57 355.04 81.52 7 1 27 2512.8 -28.01 96.01
 90.00 23 30 53 4459.67 8.32 186.57 343.71 62.84 24 45 13 3859.7 4.61 179.85
 100.00 7 42 54 2811.84 -28.99 82.73 355.34 82.39 8 29 46 2211.8 -29.74 74.00
 100.00 0 44 11 4235.83 10.00 169.22 342.82 61.68 1 54 46 3635.8 6.14 162.56
 110.00 9 17 2 2517.34 -33.81 61.00 355.98 84.64 9 58 59 1917.3 -34.18 51.78
 110.00 1 26 32 4103.10 14.20 156.69 340.35 58.57 2 34 55 3503.1 9.94 150.18

DIFFERENTIAL CORRECTIONS

TDE -1.0838 TRA 6.4621 TC3-1.5071 BAU 1.1001
 RDE .3991 RRA .3496 RC3 -.0308 FAU .00857
 FDE -.3419 FRA 1.6916 FC3 -.1359 BSP 19337
 BDE 1.1550 BRA 6.4716 BC3 1.5074 FSP -423

MID-COURSE EXECUTION ACCURACY

SGT 5818.8 SGR 424.7 SG3 123.5
 RRT .5530 RRF .5377 RTF .9680
 SGB 5834.3 R23 .0005 R13 .9680
 SG1 5823.5 SG2 353.6 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 1802.3 SR 321.3 SS 509.7
 CRT -.2120 CRS .2905 CST -.9964
 LSA 1873.8 MSA 315.8 SSA 11.6
 EL1 1803.6 EL2 313.7 ALF 177.77

LAUNCH DATE FEB 15 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 605.693

RL 147.78 LAL .00 LOL 146.14 VL 26.111 GAL 14.55 AZL 91.18 HCA 306.52 SMA 119.09 ECC .34275 INC 1.1840 V1 30.150
 RP 107.63 LAP .95 LOP 92.66 VP 36.767 GAP 19.30 AZP 90.70 TAL 147.41 TAP 93.93 RCA 78.27 APO 159.91 V2 35.209
 RC 200.549 GL -3.78 GP -11.02 ZAL 38.29 ZAP 168.64 ETS 259.24 ZAE 129.52 ETE 189.22 ZAC 174.53 ETC 39.68 CLP 177.25

PLANETOCENTRIC CONIC

C3 62.729 VHL 7.920 DLA 18.48 RAL 108.98 RAD 6569.2 VEL 13.568 PTH 2.48 VHP 12.544 OPA 13.23 RAP 90.56 ECC 2.0324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 21 3114.27 -27.10 104.67 358.86 81.47 7 16 16 2514.3 -28.00 96.12
 90.00 23 28 19 4526.13 10.36 190.38 347.16 63.50 24 43 45 3926.1 6.72 183.60
 100.00 7 56 49 2816.11 -28.96 83.04 359.16 82.23 8 43 45 2216.1 -29.73 74.32
 100.00 0 42 28 4299.53 12.03 172.86 346.29 62.43 1 54 8 3699.5 8.24 166.12
 110.00 9 29 17 2526.80 -33.75 61.74 359.83 84.22 10 11 24 1926.8 -34.18 52.52
 110.00 1 26 29 4161.60 16.25 159.99 343.88 59.50 2 35 51 3561.6 12.08 153.36

DIFFERENTIAL CORRECTIONS

TDE -1.2953 TRA 7.0328 TC3-1.2580 BAU 1.0552
 RDE .4104 RRA .3610 RC3 -.0231 FAU .00701
 FDE -.3761 FRA 1.7676 FC3 -.0968 BSP 19343
 BDE 1.3588 BRA 7.0421 BC3 1.2582 FSP -409

MID-COURSE EXECUTION ACCURACY

SGT 5798.8 SGR 406.6 SG3 119.6
 RRT .5394 RRF .5261 RTF .9711
 SGB 5813.0 R23 .0006 R13 .9711
 SG1 5802.9 SG2 342.1 THA 2.17

ORBIT DETERMINATION ACCURACY

ST 1863.2 SR 308.2 SS 528.4
 CRT -.2529 CRS .3153 CST -.9976
 LSA 1938.0 MSA 299.4 SSA 11.0
 EL1 1864.9 EL2 297.9 ALF 177.54

LAUNCH DATE FEB 15 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 609.530
 RL 147.78 LAL .00 LOL 146.14 VL 26.078 GAL 15.91 AZL 91.48 MCA 309.75 SMA 118.91 ECC .36001 INC 1.4750 V1 30.150
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.751 GAP 20.41 AZP 90.94 TAL 146.33 TAP 96.08 RCA 76.10 APO 161.72 V2 35.217
 RC 202.227 GL -4.35 GP -10.85 ZAL 36.95 ZAP 168.51 ETS 253.81 ZAE 129.30 ETE 189.02 ZAC 172.63 ETC 31.26 CLP 176.18

PLANETOCENTRIC CONIC

C3 72.462 VHL 8.512 OLA 17.73 RAL 110.36 RAD 6569.4 VEL 13.922 PTH 2.54 VHP 13.221 DPA 13.51 RAP 92.75 ECC 2.1925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 36 3119.35 -27.05 105.04 2.56 81.29 7 29 35 2519.4 -27.98 96.49
 90.00 23 26 4 4589.78 12.27 194.09 350.56 64.28 24 42 33 3989.8 8.71 187.22
 100.00 8 9 20 2823.53 -28.89 83.58 2.87 81.95 8 56 24 2223.5 -29.70 74.87
 100.00 0 40 57 4360.83 13.93 176.41 349.72 63.28 1 53 37 3760.8 10.24 169.57
 110.00 9 40 21 2538.75 -33.66 62.66 3.58 83.68 10 22 40 1938.7 -34.17 53.45
 110.00 1 26 25 4218.38 18.18 163.25 347.36 60.54 2 36 43 3618.4 14.12 156.49

DIFFERENTIAL CORRECTIONS

TOE-1.5143 TRA 7.6531 TC3-1.0293 BAU .9973
 ROE .4229 RRA .3698 RC3 -.0163 FAU .00537
 FOE -.4094 FRA 1.8514 FC3 -.0642 BSP 19250
 BOE 1.5722 BRA 7.6621 BC3 1.0295 FSP -394

MID-COURSE EXECUTION ACCURACY

SGT 5775.6 SGR 387.4 SG3 115.9
 RRT .5236 RRF .5128 RTF .9742
 SGB 5788.6 R23 .0012 R13 .9742
 SG1 5779.2 SG2 329.8 THA 2.02

ORBIT DETERMINATION ACCURACY

ST 1916.7 SR 295.3 SS 547.8
 CRT -.2878 CRS .3366 CST -.9985
 LSA 1995.2 MSA 283.5 SSA 10.5
 EL1 1918.7 EL2 282.5 ALF 177.41

LAUNCH DATE FEB 15 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 612.969
 RL 147.78 LAL .00 LOL 146.14 VL 26.047 GAL 17.40 AZL 91.79 MCA 312.98 SMA 118.74 ECC .37931 INC 1.7949 V1 30.150
 RP 107.58 LAP 1.31 LOP 99.13 VP 36.736 GAP 21.66 AZP 91.22 TAL 145.37 TAP 98.35 RCA 73.70 APO 163.78 V2 35.225
 RC 203.880 GL -4.87 GP -10.69 ZAL 35.76 ZAP 168.24 ETS 248.32 ZAE 129.01 ETE 188.82 ZAC 170.67 ETC 26.47 CLP 175.07

PLANETOCENTRIC CONIC

C3 84.165 VHL 9.174 OLA 17.04 RAL 111.58 RAD 6569.6 VEL 14.336 PTH 2.61 VHP 13.979 DPA 13.73 RAP 94.89 ECC 2.3851
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 23 3127.49 -26.97 105.62 6.13 81.01 7 41 31 2527.5 -27.93 97.08
 90.00 23 24 1 4650.59 14.04 197.68 353.90 65.15 24 41 32 4050.6 10.57 190.71
 100.00 8 20 30 2833.69 -28.79 84.32 6.45 81.58 9 7 43 2233.7 -29.65 75.62
 100.00 0 39 32 4419.63 15.70 179.88 353.08 64.23 1 53 11 3819.6 12.11 172.94
 110.00 9 50 16 2552.84 -33.55 63.74 7.20 83.04 10 32 48 1952.8 -34.15 54.55
 110.00 1 26 15 4273.25 19.99 166.48 350.79 61.67 2 37 29 3673.2 16.05 159.58

DIFFERENTIAL CORRECTIONS

TOE-1.7495 TRA 8.3215 TC3 -.8244 BAU .9276
 ROE .4363 RRA .3748 RC3 -.0106 FAU .00369
 FOE -.4442 FRA 1.9421 FC3 -.0380 BSP 19247
 BOE 1.8031 BRA 8.3299 BC3 .8244 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 5747.0 SGR 366.9 SG3 112.4
 RRT .5040 RRF .4954 RTF .9773
 SGB 5758.7 R23 .0016 R13 .9773
 SG1 5750.0 SG2 316.7 THA 1.85

ORBIT DETERMINATION ACCURACY

ST 1963.4 SR 282.2 SS 568.8
 CRT -.3211 CRS .3585 CST -.9990
 LSA 2046.1 MSA 267.6 SSA 10.0
 EL1 1965.6 EL2 267.0 ALF 177.31

LAUNCH DATE FEB 15 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 615.912
 RL 147.78 LAL .00 LOL 146.14 VL 26.017 GAL 19.06 AZL 92.15 MCA 316.21 SMA 118.57 ECC .40099 INC 2.1505 V1 30.150
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.721 GAP 23.07 AZP 91.55 TAL 144.55 TAP 100.76 RCA 71.03 APO 166.12 V2 35.232
 RC 205.508 GL -5.34 GP -10.53 ZAL 34.73 ZAP 167.83 ETS 242.85 ZAE 128.66 ETE 188.60 ZAC 168.74 ETC 23.47 CLP 173.88

PLANETOCENTRIC CONIC

C3 98.339 VHL 9.917 OLA 16.41 RAL 112.64 RAD 6569.9 VEL 14.822 PTH 2.68 VHP 14.834 DPA 13.91 RAP 96.97 ECC 2.6184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 46 3138.25 -26.85 106.38 9.55 80.65 7 52 4 2538.3 -27.87 97.86
 90.00 23 22 7 4708.46 15.66 201.15 357.13 66.11 24 40 35 4108.5 12.30 194.08
 100.00 8 30 20 2846.17 -28.66 85.23 9.87 81.12 9 17 46 2246.2 -29.59 76.55
 100.00 0 38 10 4475.77 17.34 183.25 356.34 65.26 1 52 46 3875.8 13.86 176.19
 110.00 9 59 0 2568.74 -33.41 64.96 10.68 82.33 10 41 49 1968.7 -34.11 55.79
 110.00 1 25 59 4325.96 21.66 169.66 354.12 62.88 2 38 5 3726.0 17.85 162.60

DIFFERENTIAL CORRECTIONS

TOE-1.9977 TRA 9.0498 TC3 -.6393 BAU .8406
 ROE .4512 RRA .3754 RC3 -.0059 FAU .00187
 FOE -.4799 FRA 2.0428 FC3 -.0165 BSP 19218
 BOE 2.0480 BRA 9.0575 BC3 .6394 FSP -371

MID-COURSE EXECUTION ACCURACY

SGT 5714.1 SGR 345.3 SG3 109.0
 RRT .4796 RRF .4735 RTF .9804
 SGB 5724.5 R23 .0023 R13 .9804
 SG1 5716.5 SG2 302.8 THA 1.66

ORBIT DETERMINATION ACCURACY

ST 2001.9 SR 269.4 SS 591.7
 CRT -.3523 CRS .3799 CST -.9994
 LSA 2089.7 MSA 252.2 SSA 9.4
 EL1 2004.2 EL2 251.8 ALF 177.24

LAUNCH DATE FEB 15 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 618.229
 RL 147.78 LAL .00 LOL 146.14 VL 25.989 GAL 20.91 AZL 92.55 MCA 319.45 SMA 118.42 ECC .42542 INC 2.5507 V1 30.150
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.707 GAP 24.65 AZP 91.94 TAL 143.89 TAP 103.34 RCA 68.04 APO 168.79 V2 35.238
 RC 207.111 GL -5.77 GP -10.39 ZAL 33.87 ZAP 167.27 ETS 237.48 ZAE 128.22 ETE 188.38 ZAC 166.86 ETC 21.45 CLP 172.61

PLANETOCENTRIC CONIC

C3 115.642 VHL 10.754 OLA 15.84 RAL 113.53 RAD 6570.2 VEL 15.394 PTH 2.75 VHP 15.803 DPA 14.06 RAP 98.97 ECC 2.9032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 44 3151.23 -26.70 107.30 12.77 80.21 8 1 15 2551.2 -27.78 98.80
 90.00 23 20 16 4763.17 17.14 204.48 .23 67.11 24 39 40 4163.2 13.90 197.31
 100.00 8 38 51 2860.62 -28.50 86.27 13.11 80.59 9 26 31 2260.6 -29.51 77.61
 100.00 0 36 47 4529.00 18.82 186.51 359.48 66.34 1 52 16 3929.0 15.46 179.33
 110.00 10 6 34 2586.16 -33.25 66.30 13.98 81.56 10 49 40 1986.2 -34.06 57.15
 110.00 1 25 33 4376.23 23.18 172.77 357.32 64.15 2 38 29 3776.2 19.52 165.55

DIFFERENTIAL CORRECTIONS

TOE-2.2612 TRA 9.8460 TC3 -.4734 BAU .7320
 ROE .4678 RRA .3700 RC3 -.0021 FAU .00015
 FOE -.5170 FRA 2.1553 FC3 .0011 BSP 19177
 BOE 2.3091 BRA 9.8529 BC3 .4735 FSP -360

MID-COURSE EXECUTION ACCURACY

SGT 5676.6 SGR 322.7 SG3 105.8
 RRT .4486 RRF .4450 RTF .9834
 SGB 5685.8 R23 .0030 R13 .9834
 SG1 5678.5 SG2 288.3 THA 1.46

ORBIT DETERMINATION ACCURACY

ST 2031.9 SR 256.7 SS 616.9
 CRT -.3829 CRS .4022 CST -.9997
 LSA 2125.7 MSA 237.1 SSA 8.9
 EL1 2034.3 EL2 236.9 ALF 177.19

LAUNCH DATE FEB 16 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 27 1969

HELIOCENTRIC CONIC

DISTANCE 183.005

RL 147.81 LAL .00 LOL 147.15 VL 26.549 GAL -6.85 AZL 88.37 HCA 80.94 SMA 121.65 ECC .24452 INC 1.6315 V1 30.144
 RP 108.29 LAP 1.61 LOP 228.09 VP 36.879 GAP -12.70 AZP 89.74 TAL 202.34 TAP 283.29 RCA 91.91 APO 151.40 V2 34.994
 RC 49.590 GL 8.26 GP 13.64 ZAL 132.29 ZAP 15.01 ETS 298.09 ZAE 148.78 ETE 12.73 ZAC 128.55 ETC 151.74 CLP -6.34

PLANETOCENTRIC CONIC

C3 27.318 VHL 5.227 DLA 13.24 RAL 9.90 RAD 6568.1 VEL 12.194 PTH 2.19 VHP 8.637 DPA 26.22 RAP 34.63 ECC 1.4496
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 51 2714.55 -27.75 75.61 241.50 95.89 1 20 5 2114.5 -26.64 67.12
 90.00 15 59 28 4510.34 9.88 189.47 234.65 63.33 17 14 38 3910.3 6.22 182.70
 100.00 2 3 6 2429.95 -29.11 54.50 241.32 97.12 2 43 35 1829.9 -27.82 45.94
 100.00 17 13 54 4270.17 11.10 171.18 234.01 62.07 18 25 4 3670.2 7.28 164.47
 110.00 3 26 52 2167.83 -32.71 33.95 240.67 100.51 4 3 0 1567.8 -30.92 25.19
 110.00 18 6 37 4105.05 14.27 156.80 232.16 58.60 19 15 2 3505.1 10.01 150.29

DIFFERENTIAL CORRECTIONS

TDE -.2317 TRA -.3515 TC3 .4851 BAU .1836
 RDE -.3486 RRA .1634 RC3 .1321 FAU .03618
 FDE .0177 FRA -.1283 FC3-1.1465 BSP 1969
 BDE .4186 BRA .3876 BC3 .5027 FSP -260

MID-COURSE EXECUTION ACCURACY

SGT 691.6 SGR 446.0 SG3 104.3
 RRT .3056 RRF -.3706 RTF -.6652
 SGB 823.0 R23 -.0570 R13 -.6856
 SG1 712.1 SG2 412.5 THA 17.01

ORBIT DETERMINATION ACCURACY

ST 280.8 SR 386.1 SS 44.5
 CRT .8354 CRS .4334 CST .0201
 LSA 459.7 MSA 133.5 SSA 28.2
 EL1 459.5 EL2 129.7 ALF 55.59

LAUNCH DATE FEB 16 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 189.771

RL 147.81 LAL .00 LOL 147.15 VL 26.749 GAL -6.84 AZL 88.55 HCA 84.14 SMA 122.85 ECC .23422 INC 1.4496 V1 30.144
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.011 GAP -11.75 AZP 89.85 TAL 203.71 TAP 287.85 RCA 94.08 APO 151.62 V2 34.980
 RC 51.091 GL 7.59 GP 14.52 ZAL 134.05 ZAP 16.91 ETS 304.48 ZAE 147.60 ETE 14.50 ZAC 128.73 ETC 150.68 CLP -8.77

PLANETOCENTRIC CONIC

C3 25.848 VHL 5.084 DLA 11.96 RAL 8.58 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 8.122 DPA 27.32 RAP 35.03 ECC 1.4254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 30 2657.38 -27.28 71.50 238.56 97.91 1 24 47 2057.4 -25.90 63.10
 90.00 15 43 18 4540.08 10.78 191.19 232.44 63.66 16 58 58 3940.1 7.16 184.39
 100.00 2 7 56 2375.39 -28.58 50.53 238.34 99.15 2 47 31 1775.4 -27.02 42.08
 100.00 16 58 33 4297.30 11.96 172.73 231.83 62.40 18 10 10 3697.3 8.17 165.99
 110.00 3 29 56 2118.77 -32.05 30.28 237.57 102.59 4 5 15 1518.8 -29.98 21.67
 110.00 17 53 1 4126.68 15.03 158.01 230.05 58.93 19 1 48 3526.7 10.81 151.46

DIFFERENTIAL CORRECTIONS

TDE -.2193 TRA -.3313 TC3 .5356 BAU .1938
 RDE -.3357 RRA .1686 RC3 .1658 FAU .03946
 FDE -.0121 FRA -.1699 FC3-1.3216 BSP 2060
 BDE .4010 BRA .3717 BC3 .5607 FSP -298

MID-COURSE EXECUTION ACCURACY

SGT 709.5 SGR 457.5 SG3 117.3
 RRT .3428 RRF -.4176 RTF -.6785
 SGB 844.2 R23 -.0673 R13 -.7033
 SG1 735.4 SG2 414.7 THA 18.56

ORBIT DETERMINATION ACCURACY

ST 272.9 SR 382.9 SS 50.9
 CRT .8321 CRS -.0558 CST -.4772
 LSA 452.5 MSA 134.0 SSA 30.5
 EL1 452.4 EL2 128.1 ALF 56.26

LAUNCH DATE FEB 16 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 196.526

RL 147.81 LAL .00 LOL 147.15 VL 26.928 GAL -6.83 AZL 88.73 HCA 87.33 SMA 123.95 ECC .22510 INC 1.2700 V1 30.144
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.128 GAP -10.85 AZP 89.94 TAL 205.08 TAP 292.40 RCA 96.05 APO 151.86 V2 34.967
 RC 52.697 GL 6.86 GP 15.49 ZAL 135.75 ZAP 19.08 ETS 309.69 ZAE 146.61 ETE 16.39 ZAC 128.75 ETC 149.60 CLP -11.28

PLANETOCENTRIC CONIC

C3 24.629 VHL 4.963 DLA 10.65 RAL 7.36 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 7.640 DPA 28.47 RAP 35.29 ECC 1.4053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 34 2601.47 -26.69 67.51 235.86 99.82 1 29 56 2001.5 -25.06 59.22
 90.00 15 27 30 4572.15 11.75 193.05 230.48 64.05 16 43 42 3972.1 8.16 186.21
 100.00 2 13 13 2322.01 -27.94 46.69 235.60 101.07 2 51 55 1722.0 -26.13 38.36
 100.00 16 43 32 4326.85 12.88 174.44 229.89 62.79 17 55 39 3726.8 9.14 167.65
 110.00 3 33 31 2070.77 -31.28 26.75 234.73 104.55 4 8 1 1470.8 -28.96 18.31
 110.00 17 39 44 4150.85 15.88 159.37 228.19 59.32 18 48 55 3550.8 11.69 152.77

DIFFERENTIAL CORRECTIONS

TDE -.2060 TRA -.3126 TC3 .5828 BAU .2034
 RDE -.3226 RRA .1748 RC3 .2047 FAU .04312
 FDE -.0483 FRA -.2161 FC3-1.5158 BSP 2144
 BDE .3827 BRA .3581 BC3 .6178 FSP -341

MID-COURSE EXECUTION ACCURACY

SGT 725.3 SGR 471.3 SG3 131.9
 RRT .3824 RRF -.4684 RTF -.6898
 SGB 865.0 R23 -.0792 R13 -.7202
 SG1 758.0 SG2 416.7 THA 20.35

ORBIT DETERMINATION ACCURACY

ST 262.7 SR 377.5 SS 69.1
 CRT .8258 CRS -.4000 CST -.7593
 LSA 443.7 MSA 135.3 SSA 32.9
 EL1 442.2 EL2 126.5 ALF 57.09

LAUNCH DATE FEB 16 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 203.267

RL 147.81 LAL .00 LOL 147.15 VL 27.088 GAL -6.84 AZL 88.91 HCA 90.51 SMA 124.96 ECC .21706 INC 1.0913 V1 30.144
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.232 GAP -9.99 AZP 90.01 TAL 206.42 TAP 296.94 RCA 97.84 APO 152.09 V2 34.954
 RC 54.398 GL 6.05 GP 16.57 ZAL 137.37 ZAP 21.51 ETS 313.94 ZAE 145.81 ETE 18.46 ZAC 128.60 ETC 148.52 CLP -13.91

PLANETOCENTRIC CONIC

C3 23.617 VHL 4.860 DLA 9.30 RAL 6.26 RAD 6568.0 VEL 12.041 PTH 2.15 VHP 7.189 DPA 29.67 RAP 35.40 ECC 1.3887
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 4 2546.96 -26.00 63.67 233.42 101.63 1 35 31 1947.0 -24.14 55.49
 90.00 15 12 11 4606.10 12.75 195.04 228.77 64.50 16 28 58 4006.1 9.21 188.15
 100.00 2 18 58 2269.93 -27.21 43.00 233.13 102.89 2 56 48 1669.9 -25.16 34.80
 100.00 16 28 59 4358.37 13.86 176.27 228.21 63.25 17 41 37 3758.4 10.16 169.44
 110.00 3 37 34 2023.94 -30.43 23.36 232.17 106.39 4 11 18 1423.9 -27.88 15.09
 110.00 17 26 52 4177.11 16.78 160.87 226.57 59.78 18 36 29 3577.1 12.64 154.21

DIFFERENTIAL CORRECTIONS

TDE -.1900 TRA -.2937 TC3 .6278 BAU .2133
 RDE -.3083 RRA .1824 RC3 .2498 FAU .04726
 FDE -.0935 FRA -.2685 FC3-1.7325 BSP 2264
 BDE .3622 BRA .3458 BC3 .6757 FSP -393

MID-COURSE EXECUTION ACCURACY

SGT 738.7 SGR 488.5 SG3 148.4
 RRT .4243 RRF -.5227 RTF -.7016
 SGB 885.6 R23 -.0907 R13 -.7388
 SG1 780.4 SG2 418.7 THA 22.46

ORBIT DETERMINATION ACCURACY

ST 248.2 SR 369.4 SS 96.1
 CRT .8146 CRS -.5843 CST -.8823
 LSA 432.7 MSA 137.3 SSA 35.3
 EL1 427.3 EL2 124.5 ALF 58.31

LAUNCH DATE FEB 16 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 209.991

RL 147.81 LAL .00 LOL 147.15 VL 27.231 GAL -6.84 AZL 89.09 HCA 93.70 SMA 125.88 ECC .21001 INC .9126 V1 30.144
 RP 108.45 LAP .91 LOP 240.85 VP 37.325 GAP -9.17 AZP 90.06 TAL 207.73 TAP 301.43 RCA 99.45 APO 152.32 V2 34.942
 RC 56.186 GL 5.18 GP 17.76 ZAL 138.89 ZAP 24.16 ETS 317.45 ZAE 145.18 ETE 20.75 ZAC 128.26 ETC 147.45 CLP -16.66

PLANETOCENTRIC CONIC

C3 22.779 VHL 4.773 OLA 7.92 RAL 5.28 RAD 6567.9 VEL 12.007 PTH 2.14 VHP 6.768 DPA 30.93 RAP 35.32 ECC 1.3749
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 0 2493.89 -25.22 59.98 231.25 103.32 1 41 34 1893.9 -23.14 51.93
 90.00 14 57 28 4641.53 13.78 197.14 227.32 65.02 16 14 50 4041.5 10.30 190.19
 100.00 2 25 10 2219.21 -26.39 39.45 230.92 104.58 3 2 9 1619.2 -24.12 31.38
 100.00 16 14 59 4391.44 14.86 178.21 226.79 63.76 17 28 11 3791.4 11.22 171.32
 110.00 3 42 8 1978.35 -29.51 20.13 229.89 108.10 4 15 6 1378.3 -26.75 12.03
 110.00 17 14 31 4205.07 17.74 162.48 225.20 60.29 18 24 36 3605.1 13.65 155.75

DIFFERENTIAL CORRECTIONS

TDE -.1751 TRA -.2787 TC3 .6633 BAU .2218
 RDE -.2931 RRA .1912 RC3 .3007 FAU .05179
 FDE -.1462 FRA -.3245 FC3-1.9684 BSP 2339
 BDE .3414 BRA .3380 BC3 .7283 FSP -448

MID-COURSE EXECUTION ACCURACY

SGT 747.8 SGR 509.8 SG3 166.5
 RRT .4654 RRF -.5787 RTF -.7075
 SGB 905.1 R23 -.1058 R13 -.7542
 SG1 801.1 SG2 421.2 THA 24.93

ORBIT DETERMINATION ACCURACY

ST 234.1 SR 358.8 SS 128.0
 CRT .7986 CRS -.6759 CST -.9324
 LSA 422.8 MSA 140.8 SSA 37.3
 EL1 410.3 EL2 123.2 ALF 59.42

LAUNCH DATE FEB 16 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 216.695

RL 147.81 LAL .00 LOL 147.15 VL 27.357 GAL -6.85 AZL 89.27 HCA 96.88 SMA 126.71 ECC .20385 INC .7328 V1 30.144
 RP 108.49 LAP .73 LOP 244.03 VP 37.406 GAP -8.40 AZP 90.09 TAL 208.98 TAP 305.86 RCA 100.88 APO 152.55 V2 34.929
 RC 58.051 GL 4.24 GP 19.07 ZAL 140.29 ZAP 27.05 ETS 320.41 ZAE 144.71 ETE 23.30 ZAC 127.72 ETC 146.43 CLP -19.55

PLANETOCENTRIC CONIC

C3 22.083 VHL 4.699 DLA 6.54 RAL 4.43 RAD 6567.9 VEL 11.978 PTH 2.13 VHP 6.378 DPA 32.25 RAP 35.03 ECC 1.3634
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 7 21 2442.24 -24.36 56.44 229.33 104.90 1 48 3 1842.2 -22.08 48.51
 90.00 14 43 23 4678.14 14.82 199.32 226.13 65.59 16 1 21 4078.1 11.40 192.31
 100.00 2 31 48 2169.84 -25.50 36.06 228.99 106.16 3 7 58 1569.8 -23.04 28.12
 100.00 16 1 36 4425.77 15.89 180.25 225.61 64.34 17 15 22 3825.8 12.30 173.29
 110.00 3 47 10 1933.97 -28.53 17.05 227.88 109.68 4 19 24 1334.0 -25.58 9.11
 110.00 17 2 44 4234.41 18.72 164.19 224.07 60.86 18 13 18 3634.4 14.69 157.39

DIFFERENTIAL CORRECTIONS

TDE -.1599 TRA -.2661 TC3 .6905 BAU .2297
 RDE -.2762 RRA .2012 RC3 .3586 FAU .05677
 FDE -.2089 FRA -.3850 FC3-2.2257 BSP 2414
 BDE .3192 BRA .3336 BC3 .7781 FSP -510

MID-COURSE EXECUTION ACCURACY

SGT 752.3 SGR 536.6 SG3 186.6
 RRT .5048 RRF -.6350 RTF -.7101
 SGB 924.0 R23 -.1218 R13 -.7695
 SG1 820.7 SG2 424.6 THA 27.85

ORBIT DETERMINATION ACCURACY

ST 219.1 SR 344.9 SS 164.3
 CRT .7755 CRS -.7256 CST -.9542
 LSA 413.9 MSA 145.4 SSA 38.9
 EL1 389.9 EL2 122.4 ALF 60.60

LAUNCH DATE FEB 16 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 223.377

RL 147.81 LAL .00 LOL 147.15 VL 27.469 GAL -6.86 AZL 89.45 HCA 100.07 SMA 127.46 ECC .19849 INC .5508 V1 30.144
 RP 108.53 LAP .54 LOP 247.21 VP 37.476 GAP -7.65 AZP 90.10 TAL 210.15 TAP 310.21 RCA 102.16 APO 152.76 V2 34.917
 RC 59.985 GL 3.24 GP 20.51 ZAL 141.57 ZAP 30.15 ETS 322.95 ZAE 144.37 ETE 26.18 ZAC 126.96 ETC 145.47 CLP -22.60

PLANETOCENTRIC CONIC

C3 21.506 VHL 4.637 OLA 5.15 RAL 3.73 RAD 6567.9 VEL 11.953 PTH 2.13 VHP 6.018 DPA 33.63 RAP 34.50 ECC 1.3539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 15 9 2391.88 -23.44 53.04 227.68 106.36 1 55 1 1791.9 -20.97 45.23
 90.00 14 29 56 4715.71 15.86 201.59 225.18 66.23 15 48 32 4115.7 12.52 194.51
 100.00 2 38 55 2121.69 -24.54 32.80 227.31 107.62 3 14 17 1521.7 -21.90 24.99
 100.00 15 48 51 4461.13 16.92 182.37 224.68 64.98 17 3 12 3861.1 13.40 175.34
 110.00 3 52 43 1890.71 -27.50 14.10 226.15 111.15 4 24 14 1290.7 -24.38 6.33
 110.00 16 51 32 4264.87 19.72 165.99 223.19 61.49 18 2 37 3664.9 15.76 159.10

DIFFERENTIAL CORRECTIONS

TDE -.1450 TRA -.2564 TC3 .7081 BAU .2373
 RDE -.2571 RRA .2125 RC3 .4240 FAU .06221
 FDE -.2825 FRA -.4492 FC3-2.5041 BSP 2484
 BDE .2951 BRA .3330 BC3 .8254 FSP -578

MID-COURSE EXECUTION ACCURACY

SGT 751.4 SGR 570.1 SG3 208.6
 RRT .5400 RRF -.6899 RTF -.7089
 SGB 943.2 R23 -.1379 R13 -.7853
 SG1 839.8 SG2 429.3 THA 31.31

ORBIT DETERMINATION ACCURACY

ST 203.9 SR 327.5 SS 204.4
 CRT .7423 CRS -.7517 CST -.9615
 LSA 407.8 MSA 150.8 SSA 40.0
 EL1 365.9 EL2 122.3 ALF 61.77

LAUNCH DATE FEB 16 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 230.034

RL 147.81 LAL .00 LOL 147.15 VL 27.567 GAL -6.87 AZL 89.63 HCA 103.24 SMA 128.12 ECC .19383 INC .3650 V1 30.144
 RP 108.57 LAP .36 LOP 250.39 VP 37.537 GAP -6.94 AZP 90.08 TAL 211.23 TAP 314.48 RCA 103.29 APO 152.96 V2 34.906
 RC 61.981 GL 2.18 GP 22.10 ZAL 142.71 ZAP 33.48 ETS 325.21 ZAE 144.14 ETE 29.43 ZAC 125.95 ETC 144.61 CLP -25.82

PLANETOCENTRIC CONIC

C3 21.027 VHL 4.586 DLA 3.75 RAL 3.16 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 5.688 DPA 35.07 RAP 33.69 ECC 1.3461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 26 2342.64 -22.46 49.76 226.27 107.72 2 2 28 1742.6 -19.82 42.08
 90.00 14 17 8 4754.12 16.90 203.93 224.47 66.94 15 36 22 4154.1 13.64 196.77
 100.00 2 46 31 2074.61 -23.54 29.66 225.88 108.98 3 21 6 1474.6 -20.73 21.99
 100.00 15 36 44 4497.38 17.95 184.57 223.99 65.69 16 51 41 3897.4 14.51 177.46
 110.00 3 58 47 1848.44 -26.43 11.28 224.67 112.51 4 29 36 1248.4 -23.15 3.66
 110.00 16 40 57 4296.32 20.73 167.87 222.55 62.19 17 52 33 3696.3 16.84 160.89

DIFFERENTIAL CORRECTIONS

TDE -.1289 TRA -.2485 TC3 .7171 BAU .2455
 RDE -.2348 RRA .2256 RC3 .4984 FAU .06814
 FDE -.3702 FRA -.5178 FC3-2.8054 BSP 2589
 BDE .2678 BRA .3356 BC3 .8733 FSP -657

MID-COURSE EXECUTION ACCURACY

SGT 745.2 SGR 612.2 SG3 232.7
 RRT .5699 RRF -.7421 RTF -.7054
 SGB 964.4 R23 -.1503 R13 -.8039
 SG1 860.3 SG2 435.7 THA 35.43

ORBIT DETERMINATION ACCURACY

ST 187.2 SR 305.6 SS 249.5
 CRT .6923 CRS -.7614 CST -.9589
 LSA 405.9 MSA 156.1 SSA 40.6
 EL1 336.8 EL2 122.6 ALF 63.18

LAUNCH DATE FEB 16 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.653 GAL -6.87 AZL 89.83 MCA 106.42 SMA 128.71 ECC .18980 INC .1743 V1 30.144
 RP 108.60 LAP .17 LOP 253.57 VP 37.589 GAP -6.26 AZP 90.05 TAL 212.22 TAP 318.64 RCA 104.28 APO 153.14 V2 34.894
 RC 64.032 GL 1.06 GP 23.83 ZAL 143.69 ZAP 37.03 ETS 327.28 ZAE 143.96 ETE 33.10 ZAC 124.70 ETC 143.86 CLP -29.23

DISTANCE 236.666

PLANETOCENTRIC CONIC
 C3 20.630 VHL 4.542 CLA 2.34 RAL 2.74 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 5.390 OPA 36.57 RAP 32.58 ECC 1.3395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 32 15 2294.26 -21.42 46.59 225.11 108.98 2 10 29 1694.3 -18.63 39.03
 90.00 14 4 57 4793.33 17.93 206.34 224.00 67.71 15 24 50 4193.3 14.76 199.11
 100.00 2 54 41 2028.38 -22.48 26.63 224.71 110.24 3 28 29 1428.4 -19.52 19.09
 100.00 15 25 12 4534.45 18.97 186.84 223.53 66.46 16 40 47 3934.5 15.62 179.65
 110.00 4 5 25 1806.96 -25.32 8.57 223.45 113.77 4 35 32 1207.0 -21.89 1.10
 110.00 16 30 57 4328.64 21.74 169.83 222.14 62.95 17 43 6 3728.6 17.94 162.76

DIFFERENTIAL CORRECTIONS
 TOE -.1160 TRA -.2461 TC3 .7098 BAU .2530 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE -.2093 RRA .2395 RC3 .5811 FAU .07434 SGT 730.6 SGR 663.2 SG3 258.2 ST 174.6 SR 279.7 SS 297.0
 FDE -.4691 FRA -.5858 FC3-3.1196 BSP 2660 RRT .5883 RRF -.7889 RTF -.6921 CRT .6246 CRS -.7558 CST -.9489
 BDE .2393 BRA .3434 BC3 .9173 FSP -739 SGB 986.7 R23 -.1611 R13 -.8221 LSA 411.8 MSA 160.3 SSA 40.6
 SG1 880.7 SG2 444.8 THA 40.33 EL1 305.1 EL2 125.0 ALF 64.02

LAUNCH DATE FEB 16 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.726 GAL -6.87 AZL 90.02 MCA 109.60 SMA 129.22 ECC .18632 INC .0156 V1 30.144
 RP 108.64 LAP -.02 LOP 256.74 VP 37.633 GAP -5.62 AZP 89.99 TAL 213.09 TAP 322.69 RCA 105.14 APO 153.30 V2 34.883
 RC 66.131 GL -.13 GP 25.71 ZAL 144.53 ZAP 40.81 ETS 329.24 ZAE 143.80 ETE 37.25 ZAC 123.19 ETC 143.27 CLP -32.86

DISTANCE 243.271

PLANETOCENTRIC CONIC
 C3 20.299 VHL 4.505 CLA .92 RAL 2.46 RAD 6567.8 VEL 11.903 PTH 2.11 VHP 5.122 OPA 38.11 RAP 31.13 ECC 1.3341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 39 2246.46 -20.33 43.51 224.19 110.15 2 19 5 1646.5 -17.40 36.06
 90.00 13 53 20 4833.42 18.95 208.85 223.75 68.56 15 13 53 4233.4 15.87 201.52
 100.00 3 3 25 1982.71 -21.37 23.69 223.76 111.41 3 36 28 1382.7 -18.28 16.27
 100.00 15 14 15 4572.41 19.98 189.21 223.31 67.30 16 30 27 3972.4 16.74 181.92
 110.00 4 12 39 1766.02 -24.17 5.94 222.47 114.94 4 42 5 1166.0 -20.61 358.61
 110.00 16 21 30 4361.86 22.75 171.87 221.95 63.77 17 34 12 3761.9 19.04 164.70

DIFFERENTIAL CORRECTIONS
 TOE -.1054 TRA -.2483 TC3 .6871 BAU .2610 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE -.1799 RRA .2544 RC3 .6729 FAU .08073 SGT 707.8 SGR 724.4 SG3 284.7 ST 165.2 SR 249.2 SS 347.3
 FDE -.5807 FRA -.6513 FC3-3.4429 BSP 2737 RRT .5928 RRF -.8297 RTF -.6690 CRT .5299 CRS -.7320 CST -.9319
 BDE .2085 BRA .3555 BC3 .9618 FSP -825 SGB 1012.8 R23 -.1648 R13 -.8424 LSA 426.7 MSA 162.2 SSA 40.2
 SG1 903.9 SG2 456.8 THA 46.12 EL1 269.5 EL2 129.6 ALF 64.30

LAUNCH DATE FEB 16 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.789 GAL -6.87 AZL 90.23 MCA 112.77 SMA 129.66 ECC .18333 INC .2259 V1 30.144
 RP 108.67 LAP -.21 LOP 259.92 VP 37.670 GAP -5.00 AZP 89.91 TAL 213.85 TAP 326.62 RCA 105.89 APO 153.43 V2 34.873
 RC 68.274 GL -1.39 GP 27.74 ZAL 145.19 ZAP 44.80 ETS 331.18 ZAE 143.59 ETE 41.89 ZAC 121.42 ETC 142.87 CLP -36.71

DISTANCE 249.847

PLANETOCENTRIC CONIC
 C3 20.026 VHL 4.475 CLA -.51 RAL 2.33 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 4.887 OPA 39.69 RAP 29.31 ECC 1.3296
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 51 44 2198.88 -19.18 40.49 223.49 111.24 2 28 22 1598.9 -16.13 33.15
 90.00 13 42 12 4874.55 19.95 211.45 223.73 69.48 15 3 26 4274.5 16.98 204.03
 100.00 3 12 50 1937.26 -20.22 20.81 223.05 112.50 3 45 7 1337.3 -16.99 13.50
 100.00 15 3 46 4611.40 20.99 191.67 223.31 68.21 16 20 38 4011.4 17.85 184.28
 110.00 4 20 32 1725.34 -22.98 3.39 221.72 116.03 4 49 17 1125.3 -19.29 356.19
 110.00 16 12 34 4396.08 23.77 174.01 222.00 64.68 17 25 50 3796.1 20.16 166.73

DIFFERENTIAL CORRECTIONS
 TOE -.0963 TRA -.2536 TC3 .6508 BAU .2710 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE -.1451 RRA .2705 RC3 .7754 FAU .08730 SGT 678.2 SGR 797.6 SG3 312.4 ST 158.1 SR 213.9 SS 402.4
 FDE -.7083 FRA -.7153 FC3-3.7739 BSP 2868 RRT .5817 RRF -.8645 RTF -.6355 CRT .3889 CRS -.7622 CST -.9080
 BDE .1742 BRA .3709 BC3 1.0123 FSP -919 SGB 1046.9 R23 -.1558 R13 -.8659 LSA 452.8 MSA 161.5 SSA 39.3
 SG1 935.3 SG2 470.4 THA 52.82 EL1 228.3 EL2 136.5 ALF 64.13

LAUNCH DATE FEB 16 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.842 GAL -6.86 AZL 90.44 MCA 115.94 SMA 130.04 ECC .18075 INC .4400 V1 30.144
 RP 108.70 LAP -.40 LOP 263.09 VP 37.700 GAP -4.41 AZP 89.81 TAL 214.50 TAP 330.43 RCA 106.53 APO 153.54 V2 34.862
 RC 70.456 GL -2.73 GP 29.92 ZAL 145.69 ZAP 49.00 ETS 333.17 ZAE 143.26 ETE 47.04 ZAC 119.40 ETC 142.67 CLP -40.81

DISTANCE 256.395

PLANETOCENTRIC CONIC
 C3 19.802 VHL 4.450 CLA -1.97 RAL 2.34 RAD 6567.8 VEL 11.882 PTH 2.11 VHP 4.685 OPA 41.28 RAP 27.10 ECC 1.3259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 2 34 2151.10 -17.98 37.50 223.03 112.25 2 38 25 1551.1 -14.81 30.26
 90.00 13 31 28 4916.98 20.94 214.17 223.94 70.49 14 53 25 4317.0 18.09 206.65
 100.00 3 23 0 1891.66 -19.00 17.97 222.57 113.52 3 54 32 1291.7 -15.66 10.77
 100.00 14 53 43 4651.65 21.98 194.24 223.53 69.22 16 11 15 4051.7 18.96 186.75
 110.00 4 29 9 1684.60 -21.74 .87 221.19 117.05 4 57 13 1084.6 -17.94 353.80
 110.00 16 4 4 4431.47 24.78 176.26 222.26 65.66 17 17 55 3831.5 21.28 168.86

DIFFERENTIAL CORRECTIONS
 TOE -.0930 TRA -.2658 TC3 .5924 BAU .2821 MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY
 RDE -.1053 RRA .2862 RC3 .8857 FAU .09352 SGT 640.0 SGR 880.8 SG3 339.1 ST 158.5 SR 176.6 SS 458.6
 FDE -.8450 FRA -.7678 FC3-4.0887 BSP 2988 RRT .5421 RRF -.8927 RTF -.5772 CRT .1870 CRS -.5603 CST -.8851
 BDE .1405 BRA .3906 BC3 1.0656 FSP -1008 SGB 1088.8 R23 -.1362 R13 -.8892 LSA 490.0 MSA 158.2 SSA 38.2
 SG1 974.1 SG2 486.3 THA 60.46 EL1 184.9 EL2 148.7 ALF 60.00

LAUNCH DATE FEB 16 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.886 GAL -6.84 AZL 90.67 HCA 119.11 SMA 130.35 ECC .17853 INC .6657 V1 30.144
 RP 108.73 LAP -.58 LOP 266.26 VP 37.723 GAP -3.84 AZP 89.68 TAL 215.01 TAP 334.12 RCA 107.08 APO 153.62 V2 34.853
 RC 72.672 GL -4.17 GP 32.22 ZAL 146.00 ZAP 53.37 ETS 335.27 ZAE 142.74 ETE 52.64 ZAC 117.14 ETC 142.71 CLP -45.15

DISTANCE 262.913

PLANETOCENTRIC CONIC
 C3 19.623 VHL 4.430 CLA -3.45 RAL 2.50 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 4.516 DPA 42.86 RAP 24.47 ECC 1.3229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 14 19 2102.66 -16.70 34.52 222.78 113.20 2 49 21 1502.7 -13.42 27.38
 90.00 13 21 1 4961.10 21.92 217.03 224.37 71.61 14 43 42 4361.1 19.20 209.41
 100.00 3 34 2 1845.47 -17.72 15.13 222.31 114.47 4 4 48 1245.5 -14.27 8.04
 100.00 14 43 59 4693.52 22.97 196.96 223.98 70.33 16 2 12 4093.5 20.08 189.36
 110.00 4 38 35 1643.43 -20.44 358.38 220.89 118.01 5 5 58 1043.4 -16.54 351.43
 110.00 15 55 55 4468.33 25.79 178.65 222.76 66.75 17 10 24 3868.3 22.42 171.12

MID-COURSE EXECUTION ACCURACY
 SGT 597.6 SGR 974.2 SG3 364.3
 RRT .4661 RRF -.9151 RTF -.4863
 SGB 1142.9 R23 -.1045 R13 -.9116
 SG1 1027.0 SG2 501.6 THA 68.74

ORBIT DETERMINATION ACCURACY
 ST 165.6 SR 142.5 SS 516.7
 CRT -.1300 CRS -.3107 CST -.8687
 LSA 538.4 MSA 153.4 SSA 36.7
 EL1 169.0 EL2 138.5 ALF 159.60

DIFFERENTIAL CORRECTIONS
 TDE -.0951 TRA -.2831 TC3 .5141 BAU .2959
 RDE -.0594 RRA .3011 RC3 1.0039 FAU .09923
 FDE -.9906 FRA -.8069 FC3-4.3776 BSP 3146
 BDE .1121 BRA .4133 BC3 1.1278 FSP -1093

LAUNCH DATE FEB 16 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.922 GAL -6.82 AZL 90.91 HCA 122.27 SMA 130.60 ECC .17663 INC .9056 V1 30.144
 RP 108.76 LAP -.77 LOP 269.42 VP 37.741 GAP -3.30 AZP 89.52 TAL 215.41 TAP 337.68 RCA 107.54 APO 153.67 V2 34.844
 RC 74.919 GL -5.70 GP 34.63 ZAL 146.13 ZAP 57.88 ETS 337.54 ZAE 141.97 ETE 58.62 ZAC 114.67 ETC 143.00 CLP -49.75

DISTANCE 269.402

PLANETOCENTRIC CONIC
 C3 19.487 VHL 4.414 CLA -4.99 RAL 2.82 RAD 6567.8 VEL 11.869 PTH 2.11 VHP 4.383 DPA 44.41 RAP 21.43 ECC 1.3207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 27 6 2053.01 -15.35 31.50 222.77 114.09 3 1 19 1453.0 -11.97 24.46
 90.00 13 10 44 5007.45 22.88 220.09 225.05 72.85 14 34 11 4407.4 20.32 212.36
 100.00 3 46 5 1798.19 -16.37 12.28 222.28 115.37 4 16 4 1198.2 -12.82 5.29
 100.00 14 34 25 4737.50 23.95 199.86 224.67 71.56 15 53 23 4137.5 21.21 192.14
 110.00 4 48 57 1601.39 -19.08 355.88 220.82 118.92 5 15 38 1001.4 -15.08 349.05
 110.00 15 48 3 4507.06 26.81 181.20 223.50 67.95 17 3 10 3907.1 23.58 173.53

MID-COURSE EXECUTION ACCURACY
 SGT 557.3 SGR 1078.3 SG3 387.4
 RRT .3414 RRF -.9329 RTF -.3503
 SGB 1213.8 R23 -.0652 R13 -.9313
 SG1 1099.7 SG2 513.6 THA 77.14

ORBIT DETERMINATION ACCURACY
 ST 179.4 SR 126.9 SS 578.3
 CRT -.5840 CRS .1668 CST -.8625
 LSA 599.7 MSA 147.9 SSA 34.9
 EL1 199.2 EL2 92.8 ALF 150.58

DIFFERENTIAL CORRECTIONS
 TDE -.1031 TRA -.3044 TC3 .4167 BAU .3136
 RDE -.0859 RRA .3149 RC3 1.1294 FAU .10423
 FDE -1.1456 FRA -.8321 FC3-4.6307 BSP 3385
 BDE .1032 BRA .4380 BC3 1.2038 FSP -1177

LAUNCH DATE FEB 16 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.949 GAL -6.79 AZL 91.16 HCA 125.44 SMA 130.80 ECC .17500 INC 1.1628 V1 30.144
 RP 108.78 LAP -.95 LOP 272.59 VP 37.754 GAP -2.78 AZP 89.33 TAL 215.69 TAP 341.12 RCA 107.91 APO 153.70 V2 34.835
 RC 77.194 GL -7.35 GP 37.13 ZAL 146.06 ZAP 62.49 ETS 340.03 ZAE 140.88 ETE 64.85 ZAC 112.03 ETC 143.55 CLP -54.60

DISTANCE 275.861

PLANETOCENTRIC CONIC
 C3 19.394 VHL 4.404 CLA -6.59 RAL 3.29 RAD 6567.8 VEL 11.865 PTH 2.10 VHP 4.286 DPA 45.89 RAP 17.99 ECC 1.3192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 8 2001.52 -13.89 28.42 222.99 114.92 3 14 30 1401.5 -10.42 21.47
 90.00 13 0 27 5056.67 23.83 223.38 225.97 74.23 14 24 43 4456.7 21.44 215.53
 100.00 3 59 21 1749.23 -14.92 9.37 222.48 116.21 4 28 30 1149.2 -11.28 2.47
 100.00 14 24 55 4784.19 24.92 202.99 225.62 72.93 15 44 40 4184.2 22.34 195.14
 110.00 5 0 25 1558.03 -17.63 353.35 220.98 119.77 5 26 23 958.0 -13.54 346.63
 110.00 15 40 21 4548.16 27.83 183.96 224.50 69.30 16 56 9 3948.2 24.76 176.14

MID-COURSE EXECUTION ACCURACY
 SGT 530.0 SGR 1186.4 SG3 405.2
 RRT .1441 RRF -.9464 RTF -.1442
 SGB 1299.3 R23 -.0253 R13 -.9461
 SG1 1189.4 SG2 523.1 THA 85.43

ORBIT DETERMINATION ACCURACY
 ST 204.8 SR 149.1 SS 638.2
 CRT -.8967 CRS .6371 CST -.8720
 LSA 670.9 MSA 142.6 SSA 32.8
 EL1 247.4 EL2 54.6 ALF 149.90

DIFFERENTIAL CORRECTIONS
 TDE -.1213 TRA -.3318 TC3 .2941 BAU .3342
 RDE .0537 RRA .3245 RC3 1.2551 FAU .10778
 FDE -1.2969 FRA -.8310 FC3-4.8115 BSP 3642
 BDE .1326 BRA .4641 BC3 1.2891 FSP -1239

LAUNCH DATE FEB 16 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 27.970 GAL -6.75 AZL 91.44 HCA 128.60 SMA 130.95 ECC .17360 INC 1.4409 V1 30.144
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.762 GAP -2.28 AZP 89.10 TAL 215.84 TAP 344.44 RCA 108.22 APO 153.69 V2 34.827
 RC 79.493 GL -9.14 GP 39.68 ZAL 145.77 ZAP 67.13 ETS 342.78 ZAE 139.44 ETE 71.19 ZAC 109.26 ETC 144.36 CLP -59.67

DISTANCE 282.290

PLANETOCENTRIC CONIC
 C3 19.349 VHL 4.399 CLA -8.26 RAL 3.92 RAD 6567.8 VEL 11.863 PTH 2.10 VHP 4.227 DPA 47.28 RAP 14.20 ECC 1.3184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 56 41 1947.43 -12.32 25.23 223.47 115.70 3 29 8 1347.4 -8.76 18.36
 90.00 12 49 57 5109.67 24.76 226.99 227.16 75.81 14 15 7 4509.7 22.57 219.00
 100.00 4 14 2 1697.92 -13.35 6.36 222.94 116.99 4 42 20 1097.9 -9.63 359.55
 100.00 14 15 18 4834.42 25.88 206.42 226.83 74.49 15 35 52 4234.4 23.50 198.43
 110.00 5 13 9 1512.80 -16.09 350.76 221.39 120.58 5 38 22 912.8 -11.91 344.14
 110.00 15 32 40 4592.30 28.85 186.99 225.79 70.82 16 49 12 3992.3 25.97 179.00

MID-COURSE EXECUTION ACCURACY
 SGT 532.7 SGR 1298.0 SG3 417.5
 RRT -.1119 RRF -.9567 RTF .1176
 SGB 1403.0 R23 .0109 R13 -.9567
 SG1 1299.6 SG2 528.7 THA 93.15

ORBIT DETERMINATION ACCURACY
 ST 242.3 SR 207.4 SS 698.4
 CRT -.9799 CRS .8629 CST -.8904
 LSA 754.7 MSA 138.0 SSA 30.5
 EL1 317.4 EL2 31.6 ALF 139.52

DIFFERENTIAL CORRECTIONS
 TDE -.1500 TRA -.3629 TC3 .1503 BAU .3588
 RDE .1209 RRA .3294 RC3 1.3790 FAU .10981
 FDE -1.4443 FRA -.8062 FC3-4.9131 BSP 3970
 BDE .1926 BRA .4901 BC3 1.3872 FSP -1286

LAUNCH DATE FEB 16 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 288.690

RL 147.81 LAL .00 LOL 147.15 VL 27.984 GAL -6.70 AZL 91.74 HCA 131.76 SMA 131.06 ECC .17241 INC 1.7445 V1 30.144
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.766 GAP -1.81 AZP 88.84 TAL 215.89 TAP 347.64 RCA 108.46 APO 153.65 V2 34.820
 RC 81.813 GL -11.09 GP 42.25 ZAL 145.25 ZAP 71.74 ETS 345.82 ZAE 137.65 ETE 77.48 ZAC 106.41 ETC 145.42 CLP -64.95

PLANETOCENTRIC CONIC

C3 19.363 VHL 4.400 DLA -10.04 RAL 4.73 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 4.207 DPA 48.57 RAP 10.11 ECC 1.3187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 14 4 1889.84 -10.60 21.88 224.23 116.41 3 45 34 1289.8 -6.96 15.08
 90.00 12 39 0 5167.59 25.67 230.99 228.66 77.62 14 5 8 4567.6 23.71 222.87
 100.00 4 30 27 1643.44 -11.65 3.21 223.69 117.72 4 57 50 1043.4 -7.85 356.49
 100.00 14 5 19 4889.23 26.82 210.22 228.36 76.28 15 26 48 4289.2 24.67 202.08
 110.00 5 27 24 1465.07 -14.41 348.07 222.08 121.34 5 51 50 865.1 -10.16 341.55
 110.00 15 24 50 4640.36 29.88 190.35 227.39 72.57 16 42 11 4040.4 27.21 182.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1907 TRA -.3955 TC3 -.0119 BAU .3876
 RDE .1966 RRA .3290 RC3 1.4971 FAU .11015
 FDE -1.5851 FRA -.7594 FC3 -4.9250 BSP 4379
 BDE .2739 BRA .5145 BC3 1.4972 FSP -1318

SGT 579.0 SGR 1411.0 SG3 423.8
 RRT -.3732 RRF -.9647 RTF .3813
 SGB 1525.2 R23 .0407 R13 -.9642
 SGI 1430.1 SG2 530.0 THA 100.11

ST 293.7 SR 290.1 SS 759.6
 CRT -.9866 CRS .9450 CST -.9119
 LSA 853.5 MSA 134.6 SSA 27.8
 EL1 411.4 EL2 33.8 ALF 135.36

LAUNCH DATE FEB 16 1969

FLIGHT TIME 104.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 295.061

RL 147.81 LAL .00 LOL 147.15 VL 27.993 GAL -6.64 AZL 92.08 HCA 134.92 SMA 131.12 ECC .17139 INC 2.0794 V1 30.144
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.766 GAP -1.35 AZP 88.53 TAL 215.82 TAP 350.75 RCA 108.65 APO 153.59 V2 34.813
 RC 84.153 GL -13.23 GP 44.83 ZAL 144.48 ZAP 76.23 ETS 349.17 ZAE 135.52 ETE 83.60 ZAC 103.54 ETC 146.70 CLP -70.39

PLANETOCENTRIC CONIC

C3 19.449 VHL 4.410 DLA -11.95 RAL 5.72 RAD 6567.8 VEL 11.867 PTH 2.11 VHP 4.227 DPA 49.74 RAP 5.79 ECC 1.3201
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 33 45 1827.58 -8.69 18.30 225.33 117.06 4 4 13 1227.6 -4.99 11.57
 90.00 12 27 16 5231.95 26.53 235.50 230.50 79.72 13 54 28 4631.9 24.84 227.24
 100.00 4 49 1 1584.77 -9.77 359.87 224.75 118.39 5 15 25 984.8 -5.90 353.22
 100.00 13 54 41 4949.99 27.73 214.50 230.24 78.36 15 17 11 4350.0 25.84 206.21
 110.00 5 43 30 1414.10 -12.59 345.25 223.08 122.05 6 7 5 814.1 -8.27 338.82
 110.00 15 16 41 4693.43 30.90 194.15 229.36 74.60 16 34 54 4093.4 28.48 185.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2474 TRA -.4296 TC3 -.1922 BAU .4185
 RDE .2786 RRA .3190 RC3 1.5982 FAU .10829
 FDE -1.7051 FRA -.6823 FC3 -4.8206 BSP 4809
 BDE .3726 BRA .5350 BC3 1.6097 FSP -1316

SGT 676.3 SGR 1515.7 SG3 421.6
 RRT -.5823 RRF -.9707 RTF .5908
 SGB 1659.8 R23 .0650 R13 -.9691
 SGI 1573.0 SG2 529.8 THA 106.49

ST 364.1 SR 385.9 SS 816.5
 CRT -.9840 CRS .9756 CST -.9325
 LSA 964.4 MSA 132.6 SSA 24.9
 EL1 528.5 EL2 47.4 ALF 133.31

LAUNCH DATE FEB 16 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 301.403

RL 147.81 LAL .00 LOL 147.15 VL 27.996 GAL -6.58 AZL 92.45 HCA 138.07 SMA 131.14 ECC .17052 INC 2.4532 V1 30.144
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.762 GAP -.91 AZP 88.17 TAL 215.64 TAP 353.71 RCA 108.78 APO 153.50 V2 34.807
 RC 86.508 GL -15.59 GP 47.39 ZAL 143.43 ZAP 80.53 ETS 352.81 ZAE 133.07 ETE 89.44 ZAC 100.71 ETC 148.17 CLP -75.93

PLANETOCENTRIC CONIC

C3 19.631 VHL 4.431 DLA -14.01 RAL 6.92 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 4.292 DPA 50.83 RAP 1.33 ECC 1.3231
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 21 1759.11 -6.55 14.41 226.81 117.61 4 25 40 1159.1 -2.80 7.73
 90.00 12 14 16 5304.84 27.31 240.69 232.74 82.21 13 42 41 4704.8 25.95 232.29
 100.00 5 10 16 1520.61 -7.67 356.26 226.21 118.98 5 35 36 920.6 -3.75 349.67
 100.00 13 43 2 5018.57 28.57 219.43 232.52 80.82 15 6 40 4418.6 27.01 210.97
 110.00 6 1 52 1358.98 -10.58 342.24 224.45 122.70 6 24 31 759.0 -6.20 335.90
 110.00 15 7 55 4752.97 31.90 198.50 231.77 77.00 16 27 8 4153.0 29.78 189.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3214 TRA -.4613 TC3 -.3826 BAU .4524
 RDE .3695 RRA .3007 RC3 1.6807 FAU .10465
 FDE -1.8092 FRA -.5873 FC3 -4.6150 BSP 5314
 BDE .4898 BRA .5507 BC3 1.7237 FSP -1299

SGT 815.9 SGR 1614.7 SG3 412.7
 RRT -.7211 RRF -.9755 RTF .7289
 SGB 1809.1 R23 .0839 R13 -.9725
 SGI 1730.5 SG2 527.4 THA 112.19

ST 454.9 SR 494.8 SS 873.0
 CRT -.9831 CRS .9886 CST -.9496
 LSA 1093.6 MSA 131.9 SSA 21.9
 EL1 669.3 EL2 61.5 ALF 132.55

LAUNCH DATE FEB 16 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 307.717

RL 147.81 LAL .00 LOL 147.15 VL 27.994 GAL -6.51 AZL 92.88 HCA 141.22 SMA 131.12 ECC .16978 INC 2.8757 V1 30.144
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.756 GAP -.49 AZP 87.76 TAL 215.36 TAP 356.59 RCA 108.86 APO 153.39 V2 34.802
 RC 88.877 GL -18.21 GP 49.95 ZAL 142.08 ZAP 84.56 ETS 356.74 ZAE 130.36 ETE 94.92 ZAC 97.94 ETC 149.78 CLP -81.52

PLANETOCENTRIC CONIC

C3 19.944 VHL 4.466 DLA -16.26 RAL 8.36 RAD 6567.8 VEL 11.888 PTH 2.11 VHP 4.402 DPA 51.84 RAP 356.78 ECC 1.3282
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 46 1682.23 -4.10 10.08 228.79 118.04 4 50 48 1082.2 -3.32 3.44
 90.00 11 59 18 5389.22 27.94 246.79 235.43 85.20 13 29 7 4789.2 26.98 238.25
 100.00 5 35 0 1449.16 -5.30 352.29 228.13 119.46 5 59 9 849.2 -1.33 345.75
 100.00 13 29 45 5097.53 29.29 225.18 235.28 83.77 14 54 42 4497.5 28.12 216.58
 110.00 6 23 4 1298.57 -8.34 339.00 226.26 123.27 6 44 43 698.6 -3.91 332.72
 110.00 14 58 10 4820.88 32.82 203.58 234.69 79.87 16 18 31 4220.9 31.08 194.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4167 TRA -.4885 TC3 -.5771 BAU .4866
 RDE .4669 RRA .2697 RC3 1.7316 FAU .09892
 FDE -1.8856 FRA -.4695 FC3 -4.2940 BSP 5820
 BDE .6258 BRA .5580 BC3 1.8252 FSP -1249

SGT 988.8 SGR 1697.2 SG3 395.5
 RRT -.8061 RRF -.9791 RTF .8130
 SGB 1964.3 R23 .0997 R13 -.9748
 SGI 1892.9 SG2 524.7 THA 117.44

ST 569.6 SR 610.4 SS 924.0
 CRT -.9840 CRS .9945 CST -.9627
 LSA 1238.1 MSA 132.8 SSA 18.9
 EL1 831.6 EL2 74.5 ALF 132.99

LAUNCH DATE FEB 16 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 314.003

RL 147.81 LAL .00 LOL 147.15 VL 27.987 GAL -6.42 AZL 93.36 HCA 144.37 SMA 131.08 ECC .16916 INC 3.3602 V1 30.144
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.746 GAP -.09 AZP 87.27 TAL 214.99 TAP 359.37 RCA 108.90 APO 153.25 V2 34.797
 RC 91.256 GL -21.13 GP 52.51 ZAL 140.38 ZAP 88.24 ETS .95 ZAE 127.42 ETE 100.03 ZAC 95.28 ETC 151.52 CLP -87.12

PLANETOCENTRIC CONIC

C3 20.440 VHL 4.521 DLA -18.74 RAL 10.07 RAD 6567.8 VEL 11.909 PTH 2.12 VHP 4.565 DPA 52.82 RAP 352.18 ECC 1.3364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 27 1593.50 -1.25 5.12 231.40 118.29 5 21 0 993.5 2.54 358.49
 90.00 11 41 14 5489.69 28.30 254.11 238.65 88.86 13 12 44 4889.7 27.84 245.48
 100.00 6 4 25 1367.73 -2.55 347.80 230.68 119.79 6 27 12 767.7 1.43 341.28
 100.00 13 13 57 5190.69 29.79 232.06 238.59 87.35 14 40 28 4590.7 29.10 223.33
 110.00 6 47 56 1231.38 -5.81 335.44 228.65 123.74 7 8 27 631.4 -1.34 329.21
 110.00 14 46 55 4899.81 33.61 209.61 238.23 83.36 16 8 35 4299.8 32.33 200.61

DIFFERENTIAL CORRECTIONS

TOE -.5370 TRA -.5073 TC3 -.7648 BAU .5210
 RDE .5729 RRA .2263 RC3 1.7465 FAU .09157
 FDE -1.9378 FRA -.3399 FC3 -3.8783 BSP 6349
 BOE .7852 BRA .5555 BC3 1.9066 FSP -1179

MID-COURSE EXECUTION ACCURACY

SGT 1184.1 SGR 1764.3 SG3 372.0
 RRT -.8576 RRF -.9819 RTF .8641
 SGB 2124.9 R23 .1128 R13 -.9764
 SG1 2059.8 SG2 521.6 THA 122.24

ORBIT DETERMINATION ACCURACY

ST 710.7 SR 733.2 SS 971.1
 CRT -.9856 CRS .9974 CST -.9724
 LSA 1402.6 MSA 134.9 SSA 16.0
 EL1 1017.4 EL2 86.6 ALF 134.09

LAUNCH DATE FEB 16 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 320.261

RL 147.81 LAL .00 LOL 147.15 VL 27.976 GAL -6.33 AZL 93.93 HCA 147.52 SMA 131.00 ECC .16864 INC 3.9252 V1 30.144
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.735 GAP .30 AZP 86.69 TAL 214.52 TAP 2.05 RCA 108.91 APO 153.09 V2 34.793
 RC 93.644 GL -24.42 GP 55.11 ZAL 138.28 ZAP 91.53 ETS 5.43 ZAE 124.28 ETE 104.77 ZAC 92.73 ETC 153.34 CLP -92.67

PLANETOCENTRIC CONIC

C3 21.202 VHL 4.605 DLA -21.47 RAL 12.09 RAD 6567.9 VEL 11.941 PTH 2.12 VHP 4.789 DPA 53.82 RAP 347.52 ECC 1.3489
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 55 1486.54 2.20 359.15 234.88 118.24 5 58 42 886.5 5.96 352.49
 90.00 11 17 54 5614.20 28.13 263.21 242.42 93.41 12 51 29 5014.2 28.30 254.55
 100.00 6 40 28 1271.77 .70 342.53 234.05 119.89 7 1 40 671.8 4.67 336.00
 100.00 12 54 3 5304.21 29.84 240.50 242.51 91.79 14 22 27 4704.2 29.77 231.69
 110.00 7 17 39 1155.20 -2.92 331.44 231.79 124.07 7 36 54 555.2 1.57 325.23
 110.00 14 33 21 4993.54 34.11 216.88 242.48 87.63 15 56 34 4393.5 33.41 207.71

DIFFERENTIAL CORRECTIONS

TOE -.8880 TRA -.5138 TC3 -.9341 BAU .5550
 RDE .6895 RRA .1700 RC3 1.7207 FAU .08301
 FDE -1.9670 FRA -.2059 FC3 -3.3893 BSP 6906
 BOE .9741 BRA .5412 BC3 1.9579 FSP -1094

MID-COURSE EXECUTION ACCURACY

SGT 1394.6 SGR 1816.3 SG3 343.5
 RRT -.8898 RRF -.9844 RTF .8962
 SGB 2289.9 R23 .1237 R13 -.9776
 SG1 2230.5 SG2 518.3 THA 126.64

ORBIT DETERMINATION ACCURACY

ST 880.9 SR 862.0 SS 1014.0
 CRT -.9874 CRS .9988 CST -.9795
 LSA 1590.0 MSA 137.9 SSA 13.3
 EL1 1228.6 EL2 97.8 ALF 135.63

LAUNCH DATE FEB 16 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 326.491

RL 147.81 LAL .00 LOL 147.15 VL 27.962 GAL -6.23 AZL 94.60 HCA 150.66 SMA 130.89 ECC .16821 INC 4.5967 V1 30.144
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.721 GAP .67 AZP 85.99 TAL 213.97 TAP 4.64 RCA 108.88 APO 152.91 V2 34.787
 RC 96.038 GL -28.11 GP 57.80 ZAL 135.74 ZAP 94.34 ETS 10.17 ZAE 120.96 ETE 109.17 ZAC 90.30 ETC 155.25 CLP -98.17

PLANETOCENTRIC CONIC

C3 22.360 VHL 4.729 DLA -24.50 RAL 14.50 RAD 6567.9 VEL 11.989 PTH 2.14 VHP 5.086 DPA 54.88 RAP 342.73 ECC 1.3680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 54 1345.79 6.70 351.25 239.67 117.58 6 49 20 745.8 10.34 344.47
 90.00 10 44 8 5780.62 26.87 275.22 246.65 99.30 12 20 29 5180.6 27.88 266.70
 100.00 7 27 4 1151.57 4.76 335.92 238.62 119.55 7 46 15 551.6 8.66 329.31
 100.00 12 26 39 5450.06 29.05 251.26 247.01 97.39 13 57 29 4850.1 29.76 242.53
 110.00 7 54 13 1066.42 .47 326.81 235.95 124.18 8 11 59 466.4 4.95 320.59
 110.00 14 16 0 5107.99 34.07 225.81 247.55 92.92 15 41 8 4508.0 34.10 216.57

DIFFERENTIAL CORRECTIONS

TOE -.8780 TRA -.5029 TC3 -1.0709 BAU .5871
 RDE .8178 RRA .0986 RC3 1.6462 FAU .07349
 FDE -1.9719 FRA -.0723 FC3 -2.8454 BSP 7476
 BOE 1.1999 BRA .5125 BC3 1.9639 FSP -995

MID-COURSE EXECUTION ACCURACY

SGT 1614.3 SGR 1850.1 SG3 311.0
 RRT -.9104 RRF -.9864 RTF .9175
 SGB 2455.4 R23 .1327 R13 -.9786
 SG1 2400.8 SG2 514.8 THA 130.73

ORBIT DETERMINATION ACCURACY

ST 1083.0 SR 992.8 SS 1050.6
 CRT -.9891 CRS .9995 CST -.9848
 LSA 1800.6 MSA 141.4 SSA 10.9
 EL1 1465.3 EL2 108.2 ALF 137.52

LAUNCH DATE FEB 16 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 332.694

RL 147.81 LAL .00 LOL 147.15 VL 27.944 GAL -6.12 AZL 95.41 HCA 153.80 SMA 130.76 ECC .16786 INC 5.4135 V1 30.144
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.705 GAP 1.02 AZP 85.14 TAL 213.33 TAP 7.14 RCA 108.81 APO 152.71 V2 34.787
 RC 98.436 GL -32.25 GP 60.65 ZAL 132.71 ZAP 96.63 ETS 15.21 ZAE 117.43 ETE 113.32 ZAC 87.96 ETC 157.28 CLP -103.63

PLANETOCENTRIC CONIC

C3 24.125 VHL 4.912 DLA -27.85 RAL 17.38 RAD 6568.0 VEL 12.062 PTH 2.16 VHP 5.477 DPA 56.03 RAP 337.68 ECC 1.3970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 1 53 1084.46 14.57 336.09 247.23 114.55 8 19 57 484.5 17.76 328.87
 90.00 9 32 9 790.99 21.95 317.74 250.29 108.35 9 45 20 191.0 24.25 309.83
 100.00 8 35 48 974.79 10.58 326.03 245.21 118.12 8 52 3 374.8 14.26 319.17
 100.00 11 40 55 5663.92 26.21 266.50 251.68 104.92 13 15 18 5063.9 28.00 258.15
 110.00 8 41 19 957.46 4.63 321.11 241.61 123.91 8 57 16 357.5 9.05 314.81
 110.00 13 51 53 5254.02 33.00 237.06 253.37 99.49 15 19 27 4654.0 33.95 227.96

DIFFERENTIAL CORRECTIONS

TOE -1.1196 TRA -.4676 TC3 -1.1593 BAU .6150
 RDE .9575 RRA .0078 RC3 1.5138 FAU .06322
 FDE -1.9499 FRA .0591 FC3 -2.2685 BSP 8007
 BOE 1.4732 BRA .4676 BC3 1.9067 FSP -881

MID-COURSE EXECUTION ACCURACY

SGT 1839.3 SGR 1859.9 SG3 275.2
 RRT -.9234 RRF -.9881 RTF .9320
 SGB 2615.8 R23 .1410 R13 -.9793
 SG1 2565.1 SG2 512.0 THA 134.66

ORBIT DETERMINATION ACCURACY

ST 1319.5 SR 1117.9 SS 1076.8
 CRT -.9904 CRS .9999 CST -.9886
 LSA 2032.0 MSA 145.4 SSA 8.7
 EL1 1725.3 EL2 118.1 ALF 139.77

LAUNCH DATE FEB 16 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 338.867

RL 147.81 LAL .00 LOL 147.15 VL 27.923 GAL -6.00 AZL 96.43 MCA 156.94 SMA 130.61 ECC .16758 INC 6.4349 V1 30.144
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.688 GAP 1.37 AZP 84.08 TAL 212.61 TAP 9.55 RCA 108.72 APO 152.50 V2 34.785
 RC 100.837 GL -36.90 GP 63.73 ZAL 129.12 ZAP 98.35 ETS 20.63 ZAE 113.69 ETE 117.37 ZAC 85.66 ETC 159.56 CLP-109.16

PLANETOCENTRIC CONIC

C3 26.872 VML 5.184 DLA -31.52 RAL 20.86 RAD 6568.1 VEL 12.176 PTH 2.19 VMP 5.995 DPA 57.26 RAP 332.17 ECC 1.4422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.55 7 7 1 1329.73 19.71 356.67 255.09 115.11 7 29 11 729.7 22.93 349.23
 104.45 10 54 44 5886.98 19.73 280.56 255.09 115.09 12 32 51 5287.0 22.94 273.11
 75.55 7 7 1 1329.73 19.71 356.67 255.09 115.11 7 29 11 729.7 22.93 349.23
 104.45 10 54 44 5886.98 19.73 280.56 255.09 115.09 12 32 51 5287.0 22.94 273.11
 110.00 9 48 56 804.02 10.38 312.95 249.76 122.75 10 2 20 204.0 14.63 306.42
 110.00 13 12 0 5460.69 29.65 252.22 259.38 107.85 14 43 1 4860.7 31.80 243.67

DIFFERENTIAL CORRECTIONS

TOE-1.4342 TRA -3.986 TC3-1.1848 BAU .6389
 RDE 1.1129 RRA -1.020 RC3 1.3263 FAU .05283
 FDE-1.9089 FRA .1773 FC3-1.7020 BSP .8578
 BOE 1.8154 BRA .4114 BC3 1.7785 FSP -766

MID-COURSE EXECUTION ACCURACY

SGT 2071.0 SGR 1849.7 SG3 236.5
 RRT -.9321 RRF -.8896 RTF .9435
 SGB 2776.7 R23 .1464 R13 -.9804
 SG1 2729.9 SG2 508.1 TMA 138.46

ORBIT DETERMINATION ACCURACY

ST 1593.2 SR 1231.4 SS 1093.8
 CRT -.9915 CRS 1.0000 CST -.9915
 LSA 2286.7 MSA 148.8 SSA 6.9
 EL1 2009.6 EL2 126.6 ALF 142.36

LAUNCH DATE FEB 16 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 345.011

RL 147.81 LAL .00 LOL 147.15 VL 27.899 GAL -5.87 AZL 97.76 MCA 160.06 SMA 130.44 ECC .16736 INC 7.7568 V1 30.144
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.669 GAP 1.70 AZP 82.70 TAL 211.82 TAP 11.88 RCA 108.61 APO 152.27 V2 34.784
 RC 103.240 GL -42.04 GP 67.13 ZAL 124.96 ZAP 99.44 ETS 26.63 ZAE 109.66 ETE 121.61 ZAC 83.34 ETC 162.31 CLP-114.98

PLANETOCENTRIC CONIC

C3 31.290 VML 5.594 DLA -35.46 RAL 25.09 RAD 6568.2 VEL 12.558 PTH 2.23 VMP 6.698 DPA 58.56 RAP 325.89 ECC 1.5150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.71 6 34 48 1518.82 20.72 11.85 262.98 119.44 7 0 7 918.8 24.48 4.62
 112.29 12 0 44 5773.98 20.74 272.38 262.99 119.43 13 36 58 5174.0 24.49 265.14
 67.71 6 34 48 1518.82 20.72 11.85 262.98 119.44 7 0 7 918.8 24.48 4.62
 112.29 12 0 44 5773.98 20.74 272.38 262.99 119.43 13 36 58 5174.0 24.49 265.14
 67.71 6 34 48 1518.82 20.72 11.85 262.98 119.44 7 0 7 918.8 24.48 4.62
 112.29 12 0 44 5773.98 20.74 272.38 262.99 119.43 13 36 58 5174.0 24.49 265.14

DIFFERENTIAL CORRECTIONS

TOE-1.8534 TRA -.2759 TC3-1.1294 BAU .6530
 RDE 1.2734 RRA -.2598 RC3 1.0776 FAU .04233
 FDE-1.8431 FRA .2860 FC3-1.1713 BSP .9060
 BOE 2.2487 BRA .3656 BC3 1.5610 FSP -.642

MID-COURSE EXECUTION ACCURACY

SGT 2306.7 SGR 1801.6 SG3 201.0
 RRT -.9372 RRF -.9905 RTF .9533
 SGB 2926.9 R23 .1492 R13 -.9818
 SG1 2883.4 SG2 502.6 TMA 142.46

ORBIT DETERMINATION ACCURACY

ST 1901.7 SR 1308.0 SS 1094.6
 CRT -.9923 CRS .9999 CST -.9938
 LSA 2550.0 MSA 151.5 SSA 5.4
 EL1 2304.2 EL2 133.8 ALF 145.55

LAUNCH DATE FEB 16 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 351.119

RL 147.81 LAL .00 LOL 147.15 VL 27.873 GAL -5.73 AZL 99.55 MCA 163.17 SMA 130.25 ECC .16719 INC 9.5457 V1 30.144
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.649 GAP 2.01 AZP 80.86 TAL 210.94 TAP 14.11 RCA 108.48 APO 152.03 V2 34.783
 RC 105.643 GL -47.62 GP 70.95 ZAL 120.22 ZAP 99.87 ETS 33.70 ZAE 105.24 ETE 126.61 ZAC 80.89 ETC 166.10 CLP-121.69

PLANETOCENTRIC CONIC

C3 38.770 VML 6.227 DLA -39.52 RAL 30.29 RAD 6568.5 VEL 12.655 PTH 2.30 VMP 7.685 DPA 59.79 RAP 318.42 ECC 1.6381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.19 6 22 5 1670.76 20.80 24.29 272.86 124.40 6 49 56 1070.8 25.16 17.42
 118.81 12 54 55 5730.22 20.81 268.86 272.87 124.39 14 30 25 5130.2 25.17 261.99
 61.19 6 22 5 1670.76 20.80 24.29 272.86 124.40 6 49 56 1070.8 25.16 17.42
 118.81 12 54 55 5730.22 20.81 268.86 272.87 124.39 14 30 25 5130.2 25.17 261.99
 61.19 6 22 5 1670.76 20.80 24.29 272.86 124.40 6 49 56 1070.8 25.16 17.42
 118.81 12 54 55 5730.22 20.81 268.86 272.87 124.39 14 30 25 5130.2 25.17 261.99

DIFFERENTIAL CORRECTIONS

TOE-2.4398 TRA -.0690 TC3 -.9894 BAU .6543
 RDE 1.4162 RRA -.4042 RC3 .7840 FAU .03232
 FDE-1.7621 FRA .3777 FC3 -.7218 BSP .9576
 BOE 2.8210 BRA .4101 BC3 1.2624 FSP -.526

MID-COURSE EXECUTION ACCURACY

SGT 2562.3 SGR 1698.2 SG3 164.8
 RRT -.9397 RRF -.9901 RTF .9636
 SGB 3073.9 R23 .1458 R13 -.9841
 SG1 3034.6 SG2 490.4 TMA 147.12

ORBIT DETERMINATION ACCURACY

ST 2245.5 SR 1311.5 SS 1080.6
 CRT -.9926 CRS .9996 CST -.9956
 LSA 2811.9 MSA 151.4 SSA 4.1
 EL1 2596.8 EL2 137.6 ALF 149.80

LAUNCH DATE FEB 16 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 357.183

RL 147.81 LAL .00 LOL 147.15 VL 27.844 GAL -5.57 AZL 102.11 MCA 166.26 SMA 130.05 ECC .16706 INC 12.1145 V1 30.144
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.628 GAP 2.31 AZP 78.22 TAL 209.98 TAP 16.24 RCA 108.32 APO 151.78 V2 34.783
 RC 108.045 GL -53.43 GP 75.26 ZAL 114.96 ZAP 99.59 ETS 43.09 ZAE 100.27 ETE 133.76 ZAC 78.12 ETC 172.29 CLP-130.94

PLANETOCENTRIC CONIC

C3 52.443 VML 7.242 DLA -43.41 RAL 36.67 RAD 6568.9 VEL 13.183 PTH 2.41 VMP 9.149 DPA 60.71 RAP 309.21 ECC 1.8631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.60 6 23 20 1813.37 19.30 35.44 284.92 129.68 6 53 34 1213.4 24.28 29.11
 124.40 13 44 32 5739.25 19.32 268.45 284.93 129.67 15 20 12 5139.3 24.30 262.11
 55.60 6 23 20 1813.37 19.30 35.44 284.92 129.68 6 53 34 1213.4 24.28 29.11
 124.40 13 44 32 5739.25 19.32 268.45 284.93 129.67 15 20 12 5139.3 24.30 262.11
 55.60 6 23 20 1813.37 19.30 35.44 284.92 129.68 6 53 34 1213.4 24.28 29.11
 124.40 13 44 32 5739.25 19.32 268.45 284.93 129.67 15 20 12 5139.3 24.30 262.11

DIFFERENTIAL CORRECTIONS

TOE-3.3039 TRA .2987 TC3 -.7661 BAU .6277
 RDE 1.4265 RRA -.5859 RC3 .4632 FAU .02284
 FDE-1.6697 FRA .4605 FC3 -.3771 BSP 10008
 BOE 3.5987 BRA .6576 BC3 .8953 FSP -.415

MID-COURSE EXECUTION ACCURACY

SGT 2858.4 SGR 1459.8 SG3 130.9
 RRT -.9352 RRF -.9846 RTF .9751
 SGB 3209.6 R23 .1347 R13 -.9873
 SG1 3175.6 SG2 465.3 TMA 153.87

ORBIT DETERMINATION ACCURACY

ST 2616.0 SR 1144.9 SS 1051.1
 CRT -.9915 CRS .9985 CST -.9971
 LSA 3039.3 MSA 147.3 SSA 3.0
 EL1 2852.3 EL2 136.9 ALF 156.49

LAUNCH DATE FEB 16 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.813 GAL -5.40 AZL 106.12 MCA 169.31 SMA 129.83 ECC .16692 INC16.1246 V1 30.144
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.606 GAP 2.58 AZP 74.14 TAL 208.93 TAP 18.24 RCA 108.16 APO 151.50 V2 34.784
 RC 110.446 GL -59.00 GP 79.94 ZAL 109.32 ZAP 98.60 ETS 58.87 ZAE 94.40 ETE 147.25 ZAC 74.72 ETC 185.11 CLP -148.85

PLANETOCENTRIC CONIC

C3 80.494 VHL 8.972 DLA -46.54 RAL 44.32 RAD 6569.6 VEL 14.207 PTH 2.59 VHP 11.493 DPA 60.75 RAP 297.71 ECC 2.3247
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.38 6 37 51 1957.71 15.61 45.22 298.95 134.42 7 10 29 1357.7 21.12 39.52
 128.62 14 31 5 5800.12 15.63 270.55 298.96 134.42 16 7 45 5200.1 21.14 264.85
 51.38 6 37 51 1957.71 15.61 45.22 298.95 134.42 7 10 29 1357.7 21.12 39.52
 128.62 14 31 5 5800.12 15.63 270.55 298.96 134.42 16 7 45 5200.1 21.14 264.85
 51.38 6 37 51 1957.71 15.61 45.22 298.95 134.42 7 10 29 1357.7 21.12 39.52
 128.62 14 31 5 5800.12 15.63 270.55 298.96 134.42 16 7 45 5200.1 21.14 264.85

DIFFERENTIAL CORRECTIONS

TDE -4.6423 TRA 1.0077 TC3 -.4772 BAU .3415
 RDE -.7984 RRA -.6489 RC3 .1596 FAU .01399
 FDE -1.5903 FRA .5471 FC3 -.1505 BSP 10381
 BDE 4.7105 BRA 1.1985 BC3 .5032 FSP -317

DISTANCE 363.185

MID-COURSE EXECUTION ACCURACY
 SGT 3224.6 SGR 839.6 SG3 100.8
 RRT -.8571 RRF -.9196 RTF .9877
 SGB 3332.1 R23 .1131 R13 -.9914
 SGI 3305.3 SG2 422.0 THA 167.21

ORBIT DETERMINATION ACCURACY

ST 2978.1 SR 541.0 SS 1019.8
 CRT -.9698 CRS .9816 CST -.9985
 LSA 3191.0 MSA 137.6 SSA 2.2
 EL1 3024.0 EL2 129.9 ALF 169.99

LAUNCH DATE FEB 16 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.781 GAL -5.20 AZL 113.21 MCA 172.26 SMA 129.60 ECC .16669 INC23.2125 V1 30.144
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.584 GAP 2.82 AZP 66.98 TAL 207.74 TAP 20.00 RCA 108.00 APO 151.21 V2 34.786
 RC 112.844 GL -63.15 GP 82.72 ZAL 103.58 ZAP 96.90 ETS 94.79 ZAE 86.85 ETE 180.93 ZAC 69.93 ETC 218.63 CLP 161.37

PLANETOCENTRIC CONIC

C3 149.368 VHL 12.222 DLA -47.76 RAL 52.80 RAD 6570.6 VEL 16.453 PTH 2.87 VHP 15.712 DPA 58.77 RAP 283.73 ECC 3.4582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.79 7 6 6 2099.04 9.66 52.50 313.90 137.00 7 41 5 1499.0 15.46 47.27
 130.21 15 10 30 625.44 9.67 297.24 313.91 137.00 15 20 56 25.4 15.47 292.00
 49.79 7 6 6 2099.04 9.66 52.50 313.90 137.00 7 41 5 1499.0 15.46 47.27
 130.21 15 10 30 625.44 9.67 297.24 313.91 137.00 15 20 56 25.4 15.47 292.00
 49.79 7 6 6 2099.04 9.66 52.50 313.90 137.00 7 41 5 1499.0 15.46 47.27
 130.21 15 10 30 625.44 9.67 297.24 313.91 137.00 15 20 56 25.4 15.47 292.00

DIFFERENTIAL CORRECTIONS

TDE -5.6545 TRA 2.2469 TC3 -.1491 BAU .2993
 RDE -3.0650 RRA .3665 RC3 -.0154 FAU .00488
 FDE -1.5848 FRA .6835 FC3 -.0283 BSP 10704
 BDE 6.4318 BRA 2.2766 BC3 .1499 FSP -242

MID-COURSE EXECUTION ACCURACY
 SGT 3100.8 SGR 1459.9 SG3 76.5
 RRT .9329 RRF .9221 RTF .9986
 SGB 3427.3 R23 -.0896 R13 .9949
 SGI 3393.5 SG2 480.5 THA 24.23

ORBIT DETERMINATION ACCURACY

ST 2692.3 SR 1439.0 SS 1027.1
 CRT .9925 CRS -.9907 CST -.9999
 LSA 3216.8 MSA 160.1 SSA 1.6
 EL1 3048.7 EL2 154.9 ALF 28.02

LAUNCH DATE FEB 16 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.746 GAL -4.94 AZL 128.34 MCA 174.97 SMA 129.36 ECC .16609 INC38.3404 V1 30.144
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.561 GAP 2.98 AZP 51.77 TAL 206.27 TAP 21.24 RCA 107.88 APO 150.85 V2 34.789
 RC 115.239 GL -62.59 GP 75.44 ZAL 98.15 ZAP 94.66 ETS 148.27 ZAE 75.30 ETE 232.25 ZAC 61.64 ETC 271.25 CLP 108.84

PLANETOCENTRIC CONIC

C3 373.123 VHL 19.316 DLA -44.32 RAL 60.10 RAD 6572.0 VEL 22.236 PTH 3.25 VHP 24.687 DPA 51.90 RAP 267.99 ECC 7.1407
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.36 7 51 54 2184.99 3.03 53.74 326.97 134.24 8 28 19 1585.0 8.59 48.37
 125.64 15 22 55 796.78 3.05 306.49 326.99 134.24 15 36 12 196.8 8.60 301.12
 54.36 7 51 54 2184.99 3.03 53.74 326.97 134.24 8 28 19 1585.0 8.59 48.37
 125.64 15 22 55 796.78 3.05 306.49 326.99 134.24 15 36 12 196.8 8.60 301.12
 54.36 7 51 54 2184.99 3.03 53.74 326.97 134.24 8 28 19 1585.0 8.59 48.37
 125.64 15 22 55 796.78 3.05 306.49 326.99 134.24 15 36 12 196.8 8.60 301.12

DIFFERENTIAL CORRECTIONS

TDE -.2129 TRA 2.0619 TC3 -.0091 BAU .5987
 RDE -9.3903 RRA 4.2161 RC3 .1197 FAU -.01017
 FDE -1.8100 FRA 1.0315 FC3 .0236 BSP 10812
 BDE 9.3927 BRA 4.6933 BC3 .1200 FSP -192

MID-COURSE EXECUTION ACCURACY
 SGT 857.9 SGR 3320.7 SG3 59.8
 RRT .5806 RRF .9938 RTF .6671
 SGB 3429.8 R23 -.0787 R13 .9968
 SGI 3359.6 SG2 690.5 THA 81.09

ORBIT DETERMINATION ACCURACY

ST 264.1 SR 2834.3 SS 1177.4
 CRT .4146 CRS -.9988 CST -.4582
 LSA 3070.7 MSA 245.1 SSA .5
 EL1 2836.4 EL2 240.2 ALF 87.77

LAUNCH DATE FEB 16 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.711 GAL -4.46 AZL 166.17 MCA 176.72 SMA 129.11 ECC .16398 INC76.1717 V1 30.144
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.537 GAP 2.86 AZP 13.85 TAL 203.86 TAP 20.57 RCA 107.94 APO 150.29 V2 34.792
 RC 117.630 GL -48.57 GP 53.94 ZAL 94.02 ZAP 92.45 ETS 170.97 ZAE 53.10 ETE 251.89 ZAC 44.24 ETC 300.04 CLP 94.17

PLANETOCENTRIC CONIC

C31279.977 VHL 35.777 DLA -28.89 RAL 61.65 RAD 6573.1 VEL 37.433 PTH 3.54 VHP 45.242 DPA 32.73 RAP 253.25 ECC22.0652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.01 10 53 49 1732.11 -.54 15.66 332.61 118.89 11 22 41 1132.1 3.32 9.07
 95.99 12 33 24 1409.84 -.52 352.05 332.62 118.89 12 56 54 809.8 3.33 345.46
 100.00 12 0 3 1517.16 -7.56 356.07 328.73 119.01 12 25 20 917.2 -3.63 349.48
 100.00 14 9 51 1100.03 6.48 333.07 336.52 119.24 14 28 11 500.0 10.33 326.39
 110.00 11 50 57 1545.78 -17.22 352.65 323.14 120.00 12 16 43 945.8 -13.10 345.96
 110.00 16 35 26 644.17 16.11 304.11 342.15 120.57 16 46 11 44.2 20.04 297.20

DIFFERENTIAL CORRECTIONS

TDE 4.9578 TRA .2291 TC3 -.0718 BAU 3.5956
 RD-11.2775 RRA 9.3777 RC3 .1975 FAU -.05976
 FDE -2.3237 FRA 2.0608 FC3 .0404 BSP 9081
 BDE12.3192 BRA 9.3805 BC3 .2101 FSP -164

MID-COURSE EXECUTION ACCURACY
 SGT 946.6 SGR 2863.7 SG3 52.1
 RRT -.7702 RRF .9995 RTF -.7496
 SGB 3016.1 R23 -.0840 R13 .9964
 SGI 2959.0 SG2 584.3 THA 104.88

ORBIT DETERMINATION ACCURACY

ST 794.2 SR 1878.4 SS 1520.7
 CRT -.9573 CRS -.9998 CST .9521
 LSA 2534.0 MSA 225.0 SSA .6
 EL1 2028.3 EL2 212.7 ALF 112.29

LAUNCH DATE FEB 16 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 389.665

RL 147.81 LAL .00 LOL 147.15 VL 27.674 GAL -5.16 AZL 36.21 HCA 184.03 SMA 128.86 ECC .17186 INC53.7908 V1 30.144
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.513 GAP 4.33 AZP 143.72 TAL 206.38 TAP 30.41 RCA 106.71 APO 151.00 V2 34.796
 RC 120.015 GL 57.54 GP -67.24 ZAL 96.18 ZAP 95.17 ETS 183.82 ZAE 70.30 ETE 103.04 ZAC 81.97 ETC 69.26 CLP 103.47

PLANETOCENTRIC CONIC

C3 694.707 VHL 26.357 CLA 67.91 RAL 2.44 RAD 6572.7 VEL 28.566 PTH 3.42 VHP 32.285 DPA -80.20 RAP 167.12 ECC12.4331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.29 14 36 53 5055.02 -1.85 245.36 272.11 22.09 16 1 8 4455.0 -8.26 242.75
 154.71 0 57 58 3315.75 -1.84 97.89 272.09 22.09 1 53 14 2715.8 -8.25 95.28
 25.29 14 36 53 5055.02 -1.85 245.36 272.11 22.09 16 1 8 4455.0 -8.26 242.75
 154.71 0 57 58 3315.75 -1.84 97.89 272.09 22.09 1 53 14 2715.8 -8.25 95.28
 25.29 14 36 53 5055.02 -1.85 245.36 272.11 22.09 16 1 8 4455.0 -8.26 242.75
 154.71 0 57 58 3315.75 -1.84 97.89 272.09 22.09 1 53 14 2715.8 -8.25 95.28

DIFFERENTIAL CORRECTIONS

TDE -1.3482 TRA 1.5833 TC3 -.0749 BAU 1.9118
 RD -12.7364 RRA 2.7638 RC3 -.1917 FAU -.02725
 FDE 2.5177 FRA -.5264 FC3 .0340 BSP 10875
 BDE 12.8076 BRA 3.1852 BC3 .2058 FSP -183

MID-COURSE EXECUTION ACCURACY

SGT 1039.0 SGR 3352.5 SG3 56.3
 RRT .7673 RRF -.9995 RTF -.7531
 SGB 3509.8 R23 -.0679 R13 -.9974
 SG1 3449.6 S62 647.5 THA 76.13

ORBIT DETERMINATION ACCURACY

ST 401.8 SR 2810.0 SS 1547.8
 CRT .8356 CRS 1.0000 CST .8322
 LSA 3225.6 MSA 220.2 SSA 1.2
 EL1 2830.1 EL2 219.1 ALF 83.15

LAUNCH DATE FEB 16 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 394.930

RL 147.81 LAL .00 LOL 147.15 VL 27.636 GAL -4.81 AZL 59.21 HCA 186.45 SMA 128.59 ECC .17086 INC30.7858 V1 30.144
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.490 GAP 4.39 AZP 120.63 TAL 204.57 TAP 31.02 RCA 106.62 APO 150.57 V2 34.800
 RC 122.394 GL 63.55 GP -78.47 ZAL 99.75 ZAP 98.97 ETS 214.77 ZAE 85.80 ETE 133.55 ZAC 94.06 ETC 101.78 CLP 141.29

PLANETOCENTRIC CONIC

C3 247.819 VHL 15.742 CLA 67.30 RAL 341.40 RAD 6571.4 VEL 19.213 PTH 3.09 VHP 18.971 DPA -76.21 RAP 84.05 ECC 5.0785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.00 13 14 30 4953.79 -7.06 242.76 248.44 22.88 14 37 4 4353.8 -14.42 239.98
 154.00 23 28 32 3218.90 -7.06 96.07 248.42 22.88 24 22 11 2618.9 -14.41 93.28
 26.00 13 14 30 4953.79 -7.06 242.76 248.44 22.88 14 37 4 4353.8 -14.42 239.98
 154.00 23 28 32 3218.90 -7.06 96.07 248.42 22.88 24 22 11 2618.9 -14.41 93.28
 26.00 13 14 30 4953.79 -7.06 242.76 248.44 22.88 14 37 4 4353.8 -14.42 239.98
 154.00 23 28 32 3218.90 -7.06 96.07 248.42 22.88 24 22 11 2618.9 -14.41 93.28

DIFFERENTIAL CORRECTIONS

TDE 3.1510 TRA -.5075 TC3 -.0151 BAU .1947
 RDE -4.9897 RRA 3.3060 RC3 -.0568 FAU .00108
 FDE 1.4154 FRA -.6759 FC3 -.0038 BSP 11909
 BDE 5.9014 BRA 3.3448 BC3 .0588 FSP -229

MID-COURSE EXECUTION ACCURACY

SGT 1243.7 SGR 3612.9 SG3 70.8
 RRT -.7939 RRF -.9864 RTF .8794
 SGB 3821.0 R23 -.1038 R13 -.9936
 SG1 3750.9 SG2 728.5 THA 105.90

ORBIT DETERMINATION ACCURACY

ST 1155.8 SR 2042.8 SS 900.7
 CRT -.9390 CRS .9928 CST -.9735
 LSA 2489.4 MSA 351.3 SSA 1.7
 EL1 2320.9 EL2 349.9 ALF 118.69

LAUNCH DATE FEB 16 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 400.652

RL 147.81 LAL .00 LOL 147.15 VL 27.596 GAL -4.54 AZL 68.96 HCA 189.33 SMA 128.32 ECC .17084 INC21.0382 V1 30.144
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.466 GAP 4.58 AZP 110.78 TAL 203.09 TAP 32.42 RCA 106.40 APO 150.25 V2 34.805
 RC 124.766 GL 62.52 GP -76.46 ZAL 103.17 ZAP 103.49 ETS 272.84 ZAE 94.92 ETE 191.01 ZAC 100.41 ETC 160.34 CLP-175.33

PLANETOCENTRIC CONIC

C3 123.909 VHL 11.131 CLA 64.01 RAL 338.98 RAD 6570.3 VEL 15.660 PTH 2.78 VHP 13.241 DPA -68.22 RAP 63.70 ECC 3.0392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.86 13 13 39 4825.04 -13.91 237.13 242.06 26.84 14 34 4 4225.0 -21.02 233.69
 150.14 23 10 5 3116.92 -13.90 94.73 242.04 26.84 24 2 2 2516.9 -21.01 91.29
 29.86 13 13 39 4825.04 -13.91 237.13 242.06 26.84 14 34 4 4225.0 -21.02 233.69
 150.14 23 10 5 3116.92 -13.90 94.73 242.04 26.84 24 2 2 2516.9 -21.01 91.29
 29.86 13 13 39 4825.04 -13.91 237.13 242.06 26.84 14 34 4 4225.0 -21.02 233.69
 150.14 23 10 5 3116.92 -13.90 94.73 242.04 26.84 24 2 2 2516.9 -21.01 91.29

DIFFERENTIAL CORRECTIONS

TDE 3.7787 TRA -2.7577 TC3 -.2261 BAU .3769
 RDE -.2022 RRA .9303 RC3 .0256 FAU .01404
 FDE 1.2095 FRA -.7199 FC3 -.0981 BSP 12470
 BDE 3.7841 BRA 2.9104 BC3 .2275 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 3811.3 SGR 1099.0 SG3 92.7
 RRT -.9000 RRF -.8493 RTF .9931
 SGB 3966.6 R23 -.1328 R13 -.9895
 SG1 3939.4 SG2 463.5 THA 165.24

ORBIT DETERMINATION ACCURACY

ST 2174.2 SR 343.9 SS 769.1
 CRT -.6967 CRS .6399 CST -.9971
 LSA 2317.9 MSA 253.5 SSA 2.0
 EL1 2187.6 EL2 245.2 ALF 173.63

LAUNCH DATE FEB 16 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 406.505

RL 147.81 LAL .00 LOL 147.15 VL 27.556 GAL -4.30 AZL 74.07 HCA 192.35 SMA 128.05 ECC .17117 INC15.9327 V1 30.144
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.442 GAP 4.80 AZP 105.58 TAL 201.69 TAP 34.04 RCA 106.13 APO 149.97 V2 34.811
 RC 127.128 GL 59.54 GP -70.47 ZAL 106.04 ZAP 108.27 ETS 294.22 ZAE 101.56 ETE 211.22 ZAC 104.73 ETC 181.65 CLP-159.64

PLANETOCENTRIC CONIC

C3 76.572 VHL 8.751 CLA 60.84 RAL 341.71 RAD 6569.5 VEL 14.068 PTH 2.57 VHP 10.344 DPA -61.28 RAP 54.44 ECC 2.2602
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.61 13 33 34 4706.06 -19.58 230.85 240.27 31.14 14 52 0 4106.1 -26.36 226.66
 146.39 23 11 55 3028.78 -19.57 92.86 240.25 31.14 24 2 24 2428.8 -26.35 88.67
 33.61 13 33 34 4706.06 -19.58 230.85 240.27 31.14 14 52 0 4106.1 -26.36 226.66
 146.39 23 11 55 3028.78 -19.57 92.86 240.25 31.14 24 2 24 2428.8 -26.35 88.67
 33.61 13 33 34 4706.06 -19.58 230.85 240.27 31.14 14 52 0 4106.1 -26.36 226.66
 146.39 23 11 55 3028.78 -19.57 92.86 240.25 31.14 24 2 24 2428.8 -26.35 88.67

DIFFERENTIAL CORRECTIONS

TDE 2.8959 TRA -2.5385 TC3 -.5703 BAU .5916
 RDE .8213 RRA -.0951 RC3 -.0935 FAU .02387
 FDE 1.2383 FRA -.7500 FC3 -.2698 BSP 12818
 BDE 3.0101 BRA 2.5403 BC3 .5779 FSP -392

MID-COURSE EXECUTION ACCURACY

SGT 4028.4 SGR 576.5 SG3 119.0
 RRT .6972 RRF .8089 RTF .9819
 SGB 4069.4 R23 .1634 R13 .9836
 SG1 4048.6 SG2 411.2 THA 5.76

ORBIT DETERMINATION ACCURACY

ST 2154.9 SR 539.1 SS 773.5
 CRT .9116 CRS -.9594 CST -.9905
 LSA 2340.7 MSA 231.9 SSA 2.6
 EL1 2210.8 EL2 216.1 ALF 12.97

LAUNCH DATE FEB 16 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.516 GAL -4.06 AZL 77.18 HCA 195.43 SMA 127.77 ECC .17170 INC12.8226 V1 30.144
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.418 GAP 5.03 AZP 102.37 TAL 200.31 TAP 35.74 RCA 105.84 APO 149.71 V2 34.818
 RC 129.481 GL 56.13 GP -64.28 ZAL 108.27 ZAP 113.06 ETS 301.12 ZAE 106.85 ETE 216.39 ZAC 10P.13 ETC 188.04 CLP-154.49

PLANETOCENTRIC CONIC

C3 53.817 VHL 7.336 CLA 58.01 RAL 345.65 RAD 6568.9 VEL 13.235 PTH 2.42 VHP 8.691 DPA -54.97 RAP 48.89 ECC 1.8857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.00 13 57 59 4605.06 -23.74 224.60 239.72 35.37 15 14 44 4005.1 -30.17 219.67
 143.00 23 18 57 2960.37 -23.72 90.83 239.70 35.36 24 8 18 2360.4 -30.15 85.90
 37.00 13 57 59 4605.06 -23.74 224.60 239.72 35.37 15 14 44 4005.1 -30.17 219.67
 143.00 23 18 57 2960.37 -23.72 90.83 239.70 35.36 24 8 18 2360.4 -30.15 85.90
 37.00 13 57 59 4605.06 -23.74 224.60 239.72 35.37 15 14 44 4005.1 -30.17 219.67
 143.00 23 18 57 2960.37 -23.72 90.83 239.70 35.36 24 8 18 2360.4 -30.15 85.90

DIFFERENTIAL CORRECTIONS

TDE 2.4442 TRA-2.2477 TC3 -.9565 BAU .7072
 RDE .9042 RRA -.2821 RC3 -.2262 FAU .03273
 FDE 1.3032 FRA -.7636 FC3 -.5265 BSP 13293
 BDE 2.6061 BRA 2.2653 BC3 .9829 FSP -496

MID-COURSE EXECUTION ACCURACY

SGT 4073.2 SGR 884.2 SG3 147.1
 RRT .8862 RRF .9586 RTF .9741
 SGB 4168.1 R23 .1873 R13 .9778
 SG1 4148.6 SG2 402.2 THA 10.99

ORBIT DETERMINATION ACCURACY

ST 2152.7 SR 717.2 SS 805.4
 CRT .9538 CRS -.9894 CST -.9873
 LSA 2396.9 MSA 227.8 SSA 3.3
 EL1 2259.7 EL2 205.3 ALF 17.78

LAUNCH DATE FEB 16 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.474 GAL -3.82 AZL 79.27 HCA 198.54 SMA 127.49 ECC .17236 INC10.7300 V1 30.144
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.394 GAP 5.27 AZP 100.19 TAL 198.91 TAP 37.45 RCA 105.52 APO 149.47 V2 34.825
 RC 131.823 GL 52.77 GP -58.51 ZAL 109.88 ZAP 117.69 ETS 304.19 ZAE 111.21 ETE 217.25 ZAC 111.04 ETC 190.26 CLP-152.82

PLANETOCENTRIC CONIC

C3 41.092 VHL 6.410 CLA 55.52 RAL 349.79 RAD 6568.6 VEL 12.746 PTH 2.32 VHP 7.676 DPA -49.15 RAP 45.32 ECC 1.6763
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.02 14 22 40 4521.03 -26.62 218.71 239.67 39.29 15 38 1 3921.0 -32.69 213.12
 139.98 23 27 18 2909.33 -26.61 88.89 239.65 39.29 24 15 48 2309.3 -32.68 83.30
 40.02 14 22 40 4521.03 -26.62 218.71 239.67 39.29 15 38 1 3921.0 -32.69 213.12
 139.98 23 27 18 2909.33 -26.61 88.89 239.65 39.29 24 15 48 2309.3 -32.68 83.30
 40.02 14 22 40 4521.03 -26.62 218.71 239.67 39.29 15 38 1 3921.0 -32.69 213.12
 139.98 23 27 18 2909.33 -26.61 88.89 239.65 39.29 24 15 48 2309.3 -32.68 83.30

DIFFERENTIAL CORRECTIONS

TDE 2.2906 TRA-1.9383 TC3 -1.2911 BAU .7271
 RDE .8760 RRA -.2405 RC3 -.2909 FAU .03713
 FDE 1.4242 FRA -.6752 FC3 -.7823 BSP 11380
 BDE 2.4524 BRA 1.9532 BC3 1.3235 FSP -449

MID-COURSE EXECUTION ACCURACY

SGT 4036.9 SGR 946.8 SG3 167.6
 RRT .8850 RRF .9668 RTF .9614
 SGB 4146.5 R23 .2279 R13 .9667
 SG1 4124.0 SG2 431.5 THA 11.86

ORBIT DETERMINATION ACCURACY

ST 2244.3 SR 791.3 SS 870.6
 CRT .9618 CRS -.9948 CST -.9847
 LSA 2522.9 MSA 236.9 SSA 4.0
 EL1 2370.9 EL2 204.9 ALF 18.88

LAUNCH DATE FEB 16 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.432 GAL -3.57 AZL 80.78 HCA 201.67 SMA 127.21 ECC .17318 INC 9.2215 V1 30.144
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.370 GAP 5.51 AZP 98.58 TAL 197.51 TAP 39.18 RCA 105.18 APO 149.24 V2 34.833
 RC 134.153 GL 49.59 GP -53.25 ZAL 110.94 ZAP 122.08 ETS 305.93 ZAE 114.79 ETE 216.45 ZAC 113.63 ETC 190.91 CLP-152.58

PLANETOCENTRIC CONIC

C3 33.205 VHL 5.762 CLA 53.34 RAL 353.85 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 7.028 DPA -43.79 RAP 42.97 ECC 1.5465
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.71 14 46 33 4450.73 -28.57 213.30 239.96 42.83 16 0 44 3850.7 -34.28 207.15
 137.29 23 35 49 2871.99 -28.56 87.20 239.94 42.83 24 23 41 2272.0 -34.27 81.05
 42.71 14 46 33 4450.73 -28.57 213.30 239.96 42.83 16 0 44 3850.7 -34.28 207.15
 137.29 23 35 49 2871.99 -28.56 87.20 239.94 42.83 24 23 41 2272.0 -34.27 81.05
 42.71 14 46 33 4450.73 -28.57 213.30 239.96 42.83 16 0 44 3850.7 -34.28 207.15
 137.29 23 35 49 2871.99 -28.56 87.20 239.94 42.83 24 23 41 2272.0 -34.27 81.05

DIFFERENTIAL CORRECTIONS

TDE 2.0665 TRA-1.8248 TC3 -1.7939 BAU .8165
 RDE .7535 RRA -.2405 RC3 -.4058 FAU .04589
 FDE 1.3984 FRA -.6833 FC3 -1.1964 BSP 13487
 BDE 2.1996 BRA 1.8405 BC3 1.8393 FSP -645

MID-COURSE EXECUTION ACCURACY

SGT 4210.7 SGR 969.8 SG3 195.7
 RRT .9118 RRF .9754 RTF .9611
 SGB 4321.0 R23 .2227 R13 .9656
 SG1 4303.4 SG2 389.6 THA 11.96

ORBIT DETERMINATION ACCURACY

ST 2248.8 SR 759.0 SS 869.7
 CRT .9667 CRS -.9966 CST -.9844
 LSA 2518.0 MSA 221.7 SSA 5.0
 EL1 2366.2 EL2 184.5 ALF 18.18

LAUNCH DATE FEB 16 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

RL 147.81 LAL .00 LOL 147.15 VL 27.390 GAL -3.32 AZL 81.92 HCA 204.80 SMA 126.93 ECC .17411 INC 8.0777 V1 30.144
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.347 GAP 5.75 AZP 97.34 TAL 196.09 TAP 40.89 RCA 104.83 APO 149.03 V2 34.841
 RC 136.471 GL 46.64 GP -48.53 ZAL 111.48 ZAP 126.15 ETS 307.14 ZAE 117.72 ETE 214.92 ZAC 116.01 ETC 190.91 CLP-152.99

PLANETOCENTRIC CONIC

C3 27.926 VHL 5.284 CLA 51.46 RAL 357.81 RAD 6568.1 VEL 12.219 PTH 2.20 VHP 6.606 DPA -38.89 RAP 41.50 ECC 1.4596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.06 15 9 25 4391.37 -29.87 208.46 240.59 45.94 16 22 36 3791.4 -35.25 201.84
 134.94 23 44 30 2844.47 -29.86 85.78 240.57 45.93 24 31 55 2244.5 -35.24 79.16
 45.06 15 9 25 4391.37 -29.87 208.46 240.59 45.94 16 22 36 3791.4 -35.25 201.84
 134.94 23 44 30 2844.47 -29.86 85.78 240.57 45.93 24 31 55 2244.5 -35.24 79.16
 45.06 15 9 25 4391.37 -29.87 208.46 240.59 45.94 16 22 36 3791.4 -35.25 201.84
 134.94 23 44 30 2844.47 -29.86 85.78 240.57 45.93 24 31 55 2244.5 -35.24 79.16

DIFFERENTIAL CORRECTIONS

TDE 1.9607 TRA-1.6665 TC3 -2.2451 BAU .8555
 RDE .6688 RRA -.1954 RC3 -.4588 FAU .05064
 FDE 1.3979 FRA -.6110 FC3 -1.5699 BSP 13802
 BDE 2.0716 BRA 1.6779 BC3 2.2915 FSP -712

MID-COURSE EXECUTION ACCURACY

SGT 4307.9 SGR 936.2 SG3 214.8
 RRT .9119 RRF .9732 RTF .9563
 SGB 4408.5 R23 .2299 R13 .9604
 SG1 4392.4 SG2 376.8 THA 11.29

ORBIT DETERMINATION ACCURACY

ST 2298.0 SR 732.4 SS 884.5
 CRT .9692 CRS -.9976 CST -.9837
 LSA 2559.8 MSA 216.6 SSA 6.0
 EL1 2405.7 EL2 172.3 ALF 17.26

LAUNCH DATE FEB 16 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 436.077

RL 147.81 LAL .00 LOL 147.15 VL 27.347 GAL -3.05 AZL 82.82 HCA 207.95 SMA 126.65 ECC .17515 INC 7.1764 V1 30.144
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.324 GAP 5.99 AZP 96.35 TAL 194.64 TAP 42.59 RCA 104.46 APO 148.83 V2 34.850
 RC 138.775 GL 43.92 GP -44.33 ZAL 111.55 ZAP 129.90 ETS 308.08 ZAE 120.10 ETE 213.07 ZAC 118.24 ETC 190.59 CLP-153.73

PLANETOCENTRIC CONIC

C3 24.188 VHL 4.918 DLA 49.84 RAL 1.67 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 6.333 DPA -34.42 RAP 40.66 ECC 1.3981
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.11 15 31 19 4340.69 -30.74 204.15 241.56 48.62 16 43 40 3740.7 -35.82 197.17
 132.89 23 53 27 2824.07 -30.73 84.60 241.55 48.62 24 40 31 2224.1 -35.81 77.62
 47.11 15 31 19 4340.69 -30.74 204.15 241.56 48.62 16 43 40 3740.7 -35.82 197.17
 132.89 23 53 27 2824.07 -30.73 84.60 241.55 48.62 24 40 31 2224.1 -35.81 77.62
 47.11 15 31 19 4340.69 -30.74 204.15 241.56 48.62 16 43 40 3740.7 -35.82 197.17
 132.89 23 53 27 2824.07 -30.73 84.60 241.55 48.62 24 40 31 2224.1 -35.81 77.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8839 TRA-1.5195 TC3-2.7024 BAU .8881 SGT 4406.4 SGR 888.9 SG3 229.4 ST 2345.5 SR 700.1 SS 890.3
 RDE .5967 RRA -.1525 RC3 -.4887 FAU .05393 RRT .9088 RRF .9679 RTF .9520 CRT .9711 CRS -.9983 CST -.9830
 FDE 1.3746 FRA -.5197 FC3-1.9304 BSP 14094 SGB 4495.2 R23 .2319 R13 .9556 LSA 2596.0 MSA 211.5 SSA 7.1
 BDE 1.9762 BRA 1.5272 BC3 2.7463 FSP -763. SG1 4480.3 SG2 364.8 THA 10.46 EL1 2442.5 EL2 160.4 ALF 16.24

LAUNCH DATE FEB 16 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 441.982

RL 147.81 LAL .00 LOL 147.15 VL 27.304 GAL -2.78 AZL 83.56 HCA 211.10 SMA 126.36 ECC .17633 INC 6.4441 V1 30.144
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.301 GAP 6.24 AZP 95.52 TAL 193.18 TAP 44.28 RCA 104.08 APO 148.64 V2 34.860
 RC 141.067 GL 41.39 GP -40.62 ZAL 111.20 ZAP 133.31 ETS 308.86 ZAE 122.02 ETE 211.11 ZAC 120.38 ETC 190.14 CLP-154.64

PLANETOCENTRIC CONIC

C3 21.427 VHL 4.629 DLA 48.44 RAL 5.49 RAD 6567.9 VEL 11.950 PTH 2.13 VHP 6.162 DPA -30.35 RAP 40.31 ECC 1.3526
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.90 15 52 31 4296.88 -31.31 200.34 242.88 50.94 17 4 7 3696.9 -36.12 193.07
 131.10 0 6 41 2808.92 -31.29 83.65 242.87 50.93 0 53 30 2208.9 -36.11 76.38
 48.90 15 52 31 4296.88 -31.31 200.34 242.88 50.94 17 4 7 3696.9 -36.12 193.07
 131.10 0 6 41 2808.92 -31.29 83.65 242.87 50.93 0 53 30 2208.9 -36.11 76.38
 48.90 15 52 31 4296.88 -31.31 200.34 242.88 50.94 17 4 7 3696.9 -36.12 193.07
 131.10 0 6 41 2808.92 -31.29 83.65 242.87 50.93 0 53 30 2208.9 -36.11 76.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8263 TRA-1.3789 TC3-3.1628 BAU .9173 SGT 4505.9 SGR 838.9 SG3 240.0 ST 2390.4 SR 668.2 SS 888.4
 RDE .5372 RRA -.1156 RC3 -.5011 FAU .05598 RRT .9037 RRF .9599 RTF .9481 CRT .9731 CRS -.9989 CST -.9823
 FDE 1.3339 FRA -.4177 FC3-2.2617 BSP 14390 SGB 4583.4 R23 .2283 R13 .9512 LSA 2628.1 MSA 206.2 SSA 8.3
 BDE 1.9037 BRA 1.3838 BC3 3.2023 FSP -799 SG1 4569.7 SG2 354.2 THA 9.61 EL1 2477.5 EL2 148.5 ALF 15.27

LAUNCH DATE FEB 16 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 447.879

RL 147.81 LAL .00 LOL 147.15 VL 27.260 GAL -2.50 AZL 84.17 HCA 214.26 SMA 126.08 ECC .17762 INC 5.8340 V1 30.144
 RP 108.68 LAP -3.28 LOP 37.279 VP 37.279 GAP 6.48 AZP 94.83 TAL 191.69 TAP 45.96 RCA 103.68 APO 148.47 V2 34.870
 RC 143.344 GL 39.04 GP -37.33 ZAL 110.47 ZAP 136.41 ETS 309.54 ZAE 123.55 ETE 209.16 ZAC 122.47 ETC 189.63 CLP-155.64

PLANETOCENTRIC CONIC

C3 19.319 VHL 4.395 DLA 47.23 RAL 9.31 RAD 6567.8 VEL 11.862 PTH 2.10 VHP 6.063 DPA -26.66 RAP 40.35 ECC 1.3179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.47 16 13 8 4258.82 -31.67 196.98 244.53 52.92 17 24 7 3658.8 -36.26 189.48
 129.53 0 16 31 2797.55 -31.66 82.88 244.52 52.92 1 3 8 2197.5 -36.25 75.39
 50.47 16 13 8 4258.82 -31.67 196.98 244.53 52.92 17 24 7 3658.8 -36.26 189.48
 129.53 0 16 31 2797.55 -31.66 82.88 244.52 52.92 1 3 8 2197.5 -36.25 75.39
 50.47 16 13 8 4258.82 -31.67 196.98 244.53 52.92 17 24 7 3658.8 -36.26 189.48
 129.53 0 16 31 2797.55 -31.66 82.88 244.52 52.92 1 3 8 2197.5 -36.25 75.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7817 TRA-1.2395 TC3-3.6203 BAU .9439 SGT 4602.7 SGR 790.7 SG3 246.9 ST 2431.6 SR 639.0 SS 880.0
 RDE .4887 RRA -.0843 RC3 -.5001 FAU .05692 RRT .8968 RRF .9493 RTF .9447 CRT .9753 CRS -.9994 CST -.9817
 FDE 1.2805 FRA -.3094 FC3-2.5509 BSP 14685 SGB 4670.1 R23 .2199 R13 .9473 LSA 2656.2 MSA 200.6 SSA 9.5
 BDE 1.8475 BRA 1.2424 BC3 3.6547 FSP -822 SG1 4657.3 SG2 345.8 THA 8.81 EL1 2510.5 EL2 136.8 ALF 14.42

LAUNCH DATE FEB 16 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 453.766

RL 147.81 LAL .00 LOL 147.15 VL 27.217 GAL -2.20 AZL 84.68 HCA 217.43 SMA 125.79 ECC .17905 INC 5.3152 V1 30.144
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.257 GAP 6.73 AZP 94.23 TAL 190.19 TAP 47.61 RCA 103.27 APO 148.32 V2 34.880
 RC 145.608 GL 36.82 GP -34.44 ZAL 109.40 ZAP 139.24 ETS 310.11 ZAE 124.78 ETE 207.29 ZAC 124.51 ETC 189.12 CLP-156.69

PLANETOCENTRIC CONIC

C3 17.672 VHL 4.204 DLA 46.19 RAL 13.16 RAD 6567.7 VEL 11.792 PTH 2.08 VHP 6.016 DPA -23.31 RAP 40.69 ECC 1.2908
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.85 16 33 27 4225.41 -31.90 194.00 246.50 54.64 17 43 53 3625.4 -36.28 186.32
 128.15 0 26 55 2789.18 -31.89 82.28 246.49 54.63 1 13 24 2189.2 -36.27 74.61
 51.85 16 33 27 4225.41 -31.90 194.00 246.50 54.64 17 43 53 3625.4 -36.28 186.32
 128.15 0 26 55 2789.18 -31.89 82.28 246.49 54.63 1 13 24 2189.2 -36.27 74.61
 51.85 16 33 27 4225.41 -31.90 194.00 246.50 54.64 17 43 53 3625.4 -36.28 186.32
 128.15 0 26 55 2789.18 -31.89 82.28 246.49 54.63 1 13 24 2189.2 -36.27 74.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7492 TRA-1.0972 TC3-4.0666 BAU .9677 SGT 4694.6 SGR 747.3 SG3 250.7 ST 2472.7 SR 615.0 SS 868.8
 RDE .4504 RRA -.0577 RC3 -.4885 FAU .05690 RRT .8874 RRF .9359 RTF .9415 CRT .9778 CRS -.9997 CST -.9810
 FDE 1.2222 FRA -.1975 FC3-2.7875 BSP 14922 SGB 4753.7 R23 .2083 R13 .9436 LSA 2685.0 MSA 195.1 SSA 10.8
 BDE 1.8063 BRA 1.0987 BC3 4.0959 FSP -830 SG1 4741.5 SG2 341.1 THA 8.08 EL1 2545.0 EL2 125.1 ALF 13.70

LAUNCH DATE FEB 16 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 459.641

RL 147.81 LAL .00 LOL 147.15 VL 27.173 GAL -1.90 AZL 85.13 MCA 220.59 SMA 125.51 ECC .18063 INC 4.8660 V1 30.144
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.235 GAP 6.98 AZP 93.70 TAL 188.67 TAP 49.26 RCA 102.84 APO 148.18 V2 34.891
 RC 147.857 GL 34.71 GP -31.88 ZAL 108.01 ZAP 141.80 ETS 310.58 ZAE 125.76 ETE 205.53 ZAC 126.55 ETC 188.62 CLP-157.75

PLANETOCENTRIC CONIC

C3 16.366 VHL 4.046 DLA 45.26 RAL 17.07 RAD 6567.7 VEL 11.737 PTH 2.07 VHP 6.009 DPA -20.25 RAP 41.29 ECC 1.2693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.09 16 53 36 4196.02 -32.02 191.35 248.79 56.12 18 3 32 3596.0 -36.22 183.53
 126.91 0 37 58 2783.19 -32.01 81.82 248.78 56.11 1 24 21 2183.2 -36.21 74.01
 53.09 16 53 36 4196.02 -32.02 191.35 248.79 56.12 18 3 32 3596.0 -36.22 183.53
 126.91 0 37 58 2783.19 -32.01 81.82 248.78 56.11 1 24 21 2183.2 -36.21 74.01
 53.09 16 53 36 4196.02 -32.02 191.35 248.79 56.12 18 3 32 3596.0 -36.22 183.53
 126.91 0 37 58 2783.19 -32.01 81.82 248.78 56.11 1 24 21 2183.2 -36.21 74.01

DIFFERENTIAL CORRECTIONS

TDE 1.7193 TRA -.9554 TC3-4.5101 BAU .9922
 RDE .4189 RRA -.0365 RC3 -.4736 FAU .05640
 FDE 1.1552 FRA -.0906 FC3-2.9833 BSP 15248
 BOE 1.7696 BRA .9561 BC3 4.5349 FSP -838

MID-COURSE EXECUTION ACCURACY

SGT 4789.6 SGR 710.1 SG3 252.4
 RRT .8774 RRF .9202 RTF .9392
 SGB 4842.0 R23 .1918 R13 .9409
 SG1 4830.2 SG2 337.8 THA 7.45

ORBIT DETERMINATION ACCURACY

ST 2504.8 SR 593.8 SS 850.8
 CRT .9807 CRS -.9997 CST -.9803
 LSA 2704.6 MSA 188.9 SSA 12.2
 EL1 2571.7 EL2 113.1 ALF 13.11

LAUNCH DATE FEB 16 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 465.505

RL 147.81 LAL .00 LOL 147.15 VL 27.129 GAL -1.58 AZL 85.53 MCA 223.76 SMA 125.23 ECC .18234 INC 4.4711 V1 30.144
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.214 GAP 7.23 AZP 93.23 TAL 187.13 TAP 50.89 RCA 102.39 APO 148.06 V2 34.902
 RC 150.092 GL 32.69 GP -29.63 ZAL 106.32 ZAP 144.14 ETS 310.95 ZAE 126.54 ETE 203.91 ZAC 128.58 ETC 188.14 CLP-158.81

PLANETOCENTRIC CONIC

C3 15.322 VHL 3.914 DLA 44.43 RAL 21.07 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 6.033 DPA -17.45 RAP 42.09 ECC 1.2522
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.21 17 13 50 4169.86 -32.06 188.98 251.37 57.42 18 23 19 3569.9 -36.10 181.05
 125.79 0 49 36 2779.46 -32.04 81.50 251.36 57.41 1 35 56 2179.5 -36.08 73.58
 54.21 17 13 50 4169.86 -32.06 188.98 251.37 57.42 18 23 19 3569.9 -36.10 181.05
 125.79 0 49 36 2779.46 -32.04 81.50 251.36 57.41 1 35 56 2179.5 -36.08 73.58
 54.21 17 13 50 4169.86 -32.06 188.98 251.37 57.42 18 23 19 3569.9 -36.10 181.05
 125.79 0 49 36 2779.46 -32.04 81.50 251.36 57.41 1 35 56 2179.5 -36.08 73.58

DIFFERENTIAL CORRECTIONS

TDE 1.6933 TRA -.8084 TC3-4.9349 BAU 1.0151
 RDE .3937 RRA -.0183 RC3 -.4541 FAU .05532
 FDE 1.0857 FRA .0141 FC3-3.1255 BSP 15551
 BOE 1.7384 BRA .8086 BC3 4.9558 FSP -837

MID-COURSE EXECUTION ACCURACY

SGT 4880.0 SGR 678.2 SG3 252.1
 RRT .8654 RRF .9019 RTF .9372
 SGB 4926.9 R23 .1736 R13 .9386
 SG1 4915.3 SG2 337.4 THA 6.89

ORBIT DETERMINATION ACCURACY

ST 2530.5 SR 576.5 SS 829.2
 CRT .9838 CRS -.9993 CST -.9794
 LSA 2718.5 MSA 182.7 SSA 13.6
 EL1 2593.4 EL2 100.9 ALF 12.65

LAUNCH DATE FEB 16 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 471.357

RL 147.81 LAL .00 LOL 147.15 VL 27.085 GAL -1.26 AZL 85.88 MCA 226.94 SMA 124.95 ECC .18421 INC 4.1192 V1 30.144
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.193 GAP 7.49 AZP 92.82 TAL 185.58 TAP 52.51 RCA 101.93 APO 147.97 V2 34.914
 RC 152.312 GL 30.73 GP -27.63 ZAL 104.36 ZAP 146.28 ETS 311.21 ZAE 127.17 ETE 202.43 ZAC 130.61 ETC 187.69 CLP-159.87

PLANETOCENTRIC CONIC

C3 14.488 VHL 3.806 DLA 43.66 RAL 25.16 RAD 6567.6 VEL 11.656 PTH 2.05 VHP 6.081 DPA -14.89 RAP 43.08 ECC 1.2384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.27 17 34 15 4146.46 -32.01 186.82 254.24 58.56 18 43 22 3546.5 -35.91 178.81
 124.73 1 1 48 2777.87 -32.00 81.33 254.23 58.55 1 48 6 2177.9 -35.90 73.32
 55.27 17 34 15 4146.46 -32.01 186.82 254.24 58.56 18 43 22 3546.5 -35.91 178.81
 124.73 1 1 48 2777.87 -32.00 81.33 254.23 58.55 1 48 6 2177.9 -35.90 73.32
 55.27 17 34 15 4146.46 -32.01 186.82 254.24 58.56 18 43 22 3546.5 -35.91 178.81
 124.73 1 1 48 2777.87 -32.00 81.33 254.23 58.55 1 48 6 2177.9 -35.90 73.32

DIFFERENTIAL CORRECTIONS

TDE 1.6683 TRA -.6561 TC3-5.3350 BAU 1.0368
 RDE .3737 RRA -.0027 RC3 -.4323 FAU .05383
 FDE 1.0143 FRA .1141 FC3-3.2165 BSP 15836
 BOE 1.7096 BRA .6561 BC3 5.3525 FSP -830

MID-COURSE EXECUTION ACCURACY

SGT 4966.4 SGR 651.7 SG3 250.2
 RRT .8518 RRF .8815 RTF .9357
 SGB 5008.9 R23 .1541 R13 .9369
 SG1 4997.4 SG2 339.3 THA 6.41

ORBIT DETERMINATION ACCURACY

ST 2547.3 SR 562.6 SS 804.0
 CRT .9870 CRS -.9983 CST -.9784
 LSA 2724.0 MSA 176.4 SSA 15.2
 EL1 2607.2 EL2 88.3 ALF 12.31

LAUNCH DATE FEB 16 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 477.196

RL 147.81 LAL .00 LOL 147.15 VL 27.042 GAL -.92 AZL 86.20 MCA 230.11 SMA 124.67 ECC .18625 INC 3.8017 V1 30.144
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.172 GAP 7.75 AZP 92.44 TAL 184.01 TAP 54.13 RCA 101.45 APO 147.89 V2 34.926
 RC 154.516 GL 28.82 GP -25.86 ZAL 102.16 ZAP 148.25 ETS 311.36 ZAE 127.67 ETE 201.09 ZAC 132.66 ETC 187.27 CLP-160.91

PLANETOCENTRIC CONIC

C3 13.831 VHL 3.719 DLA 42.92 RAL 29.35 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 6.149 DPA -12.53 RAP 44.22 ECC 1.2276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.28 17 55 4 4125.27 -31.88 184.84 257.39 59.58 19 3 49 3525.3 -35.65 176.76
 123.72 1 14 26 2778.59 -31.87 81.30 257.38 59.57 2 0 44 2178.6 -35.64 73.23
 56.28 17 55 4 4125.27 -31.88 184.84 257.39 59.58 19 3 49 3525.3 -35.65 176.76
 123.72 1 14 26 2778.59 -31.87 81.30 257.38 59.57 2 0 44 2178.6 -35.64 73.23
 56.28 17 55 4 4125.27 -31.88 184.84 257.39 59.58 19 3 49 3525.3 -35.65 176.76
 123.72 1 14 26 2778.59 -31.87 81.30 257.38 59.57 2 0 44 2178.6 -35.64 73.23

DIFFERENTIAL CORRECTIONS

TDE 1.6421 TRA -.4980 TC3-5.7056 BAU 1.0577
 RDE .3578 RRA .0110 RC3 -.4102 FAU .05210
 FDE .9422 FRA .2085 FC3-3.2614 BSP 16128
 BOE 1.6806 BRA .4981 BC3 5.7203 FSP -820

MID-COURSE EXECUTION ACCURACY

SGT 5050.5 SGR 630.4 SG3 247.2
 RRT .8370 RRF .8596 RTF .9349
 SGB 5089.7 R23 .1343 R13 .9358
 SG1 5078.2 SG2 343.1 THA 5.99

ORBIT DETERMINATION ACCURACY

ST 2552.4 SR 551.3 SS 775.3
 CRT .9902 CRS -.9964 CST -.9772
 LSA 2718.6 MSA 170.2 SSA 16.8
 EL1 2610.2 EL2 75.3 ALF 12.08

LAUNCH DATE FEB 16 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 483.021

RL 147.81 LAL .00 LOL 147.15 VL 26.998 GAL -.56 AZL 86.49 HCA 233.29 SMA 124.40 ECC .18846 INC 3.5122 V1 30.144
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.152 GAP 8.01 AZP 92.10 TAL 182.43 TAP 55.73 RCA 100.95 APO 147.84 V2 34.938
 RC 156.704 GL 26.94 GP -24.29 ZAL 99.73 ZAP 150.06 ETS 311.40 ZAE 128.08 ETE 199.87 ZAC 134.73 ETC 186.86 CLP-161.93

PLANETOCENTRIC CONIC

C3 13.327 VHL 3.651 DLA 42.20 RAL 33.64 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 6.234 DPA -10.34 RAP 45.49 ECC 1.2193
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.30 18 16 23 4105.78 -31.67 182.98 260.78 60.51 19 24 48 3505.8 -35.33 174.85
 122.70 1 27 21 2781.89 -31.66 81.45 260.78 60.49 2 13 43 2181.9 -35.32 73.33
 57.30 18 16 23 4105.78 -31.67 182.98 260.78 60.51 19 24 48 3505.8 -35.33 174.85
 122.70 1 27 21 2781.89 -31.66 81.45 260.78 60.49 2 13 43 2181.9 -35.32 73.33
 57.30 18 16 23 4105.78 -31.67 182.98 260.78 60.51 19 24 48 3505.8 -35.33 174.85
 122.70 1 27 21 2781.89 -31.66 81.45 260.78 60.49 2 13 43 2181.9 -35.32 73.33

DIFFERENTIAL CORRECTIONS

TDE 1.6152 TRA -.3296 TC3-6.0306 BAU 1.0767
 RDE .3457 RRA .0241 RC3-.3870 FAU .05011
 FDE .8719 FRA .3009 FC3-3.2551 BSP 16340
 BDE 1.6518 BRA .3305 BC3 6.0430 FSP -803

MID-COURSE EXECUTION ACCURACY

SGT 5128.5 SGR 613.9 SG3 243.3
 RRT .8207 RRF .8369 RTF .9341
 SGB 5165.1 R23 .1167 R13 .9349
 SG1 5153.3 SG2 349.0 THA 5.64

ORBIT DETERMINATION ACCURACY

ST 2547.0 SR 542.9 SS 745.2
 CRT .9932 CRS -.9932 CST -.9757
 LSA 2703.7 MSA 164.9 SSA 18.5
 EL1 2603.5 EL2 61.7 ALF 11.96

LAUNCH DATE FEB 16 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 488.831

RL 147.81 LAL .00 LOL 147.15 VL 26.954 GAL -.20 AZL 86.75 HCA 236.48 SMA 124.12 ECC .19086 INC 3.2455 V1 30.144
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.132 GAP 8.29 AZP 91.79 TAL 180.84 TAP 57.32 RCA 100.43 APO 147.81 V2 34.951
 RC 158.875 GL 25.08 GP -22.89 ZAL 97.09 ZAP 151.73 ETS 311.31 ZAE 128.42 ETE 198.78 ZAC 136.82 ETC 186.48 CLP-162.94

PLANETOCENTRIC CONIC

C3 12.962 VHL 3.600 DLA 41.46 RAL 38.02 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 6.333 DPA -8.32 RAP 46.89 ECC 1.2133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.35 18 38 19 4087.52 -31.36 181.18 264.41 61.36 19 46 26 3487.5 -34.92 173.03
 121.65 1 40 21 2788.15 -31.35 81.79 264.41 61.34 2 26 49 2188.2 -34.91 73.65
 58.35 18 38 19 4087.52 -31.36 181.18 264.41 61.36 19 46 26 3487.5 -34.92 173.03
 121.65 1 40 21 2788.15 -31.35 81.79 264.41 61.34 2 26 49 2188.2 -34.91 73.65
 58.35 18 38 19 4087.52 -31.36 181.18 264.41 61.36 19 46 26 3487.5 -34.92 173.03
 121.65 1 40 21 2788.15 -31.35 81.79 264.41 61.34 2 26 49 2188.2 -34.91 73.65

DIFFERENTIAL CORRECTIONS

TDE 1.5761 TRA -.1574 TC3-6.3246 BAU 1.0979
 RDE .3352 RRA .0357 RC3 -.3678 FAU .04825
 FDE .7953 FRA .3848 FC3-3.2228 BSP 16700
 BDE 1.6114 BRA .1614 BC3 6.3353 FSP -797

MID-COURSE EXECUTION ACCURACY

SGT 5209.9 SGR 600.4 SG3 239.0
 RRT .8053 RRF .8138 RTF .9345
 SGB 5244.4 R23 .0975 R13 .9351
 SG1 5232.4 SG2 354.4 THA 5.33

ORBIT DETERMINATION ACCURACY

ST 2514.0 SR 534.0 SS 706.5
 CRT .9958 CRS -.9882 CST -.9734
 LSA 2660.5 MSA 159.8 SSA 20.3
 EL1 2569.6 EL2 47.7 ALF 11.95

LAUNCH DATE FEB 16 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 494.626

RL 147.81 LAL .00 LOL 147.15 VL 26.911 GAL -.18 AZL 87.00 HCA 239.66 SMA 123.85 ECC .19346 INC 2.9977 V1 30.144
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.113 GAP 8.57 AZP 91.51 TAL 179.25 TAP 58.91 RCA 99.89 APO 147.81 V2 34.964
 RC 161.027 GL 23.23 GP -21.63 ZAL 94.27 ZAP 153.28 ETS 311.09 ZAE 128.70 ETE 197.79 ZAC 138.93 ETC 186.10 CLP-163.93

PLANETOCENTRIC CONIC

C3 12.728 VHL 3.568 DLA 40.69 RAL 42.46 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.446 DPA -6.44 RAP 48.38 ECC 1.2095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.47 19 0 57 4069.98 -30.95 179.41 268.25 62.15 20 8 47 3470.0 -34.41 171.25
 120.53 1 53 11 2797.83 -30.94 82.37 268.24 62.14 2 39 49 2197.8 -34.40 74.21
 59.47 19 0 57 4069.98 -30.95 179.41 268.25 62.15 20 8 47 3470.0 -34.41 171.25
 120.53 1 53 11 2797.83 -30.94 82.37 268.24 62.14 2 39 49 2197.8 -34.40 74.21
 59.47 19 0 57 4069.98 -30.95 179.41 268.25 62.15 20 8 47 3470.0 -34.41 171.25
 120.53 1 53 11 2797.83 -30.94 82.37 268.24 62.14 2 39 49 2197.8 -34.40 74.21

DIFFERENTIAL CORRECTIONS

TDE 1.5405 TRA .0316 TC3-6.5123 BAU 1.1096
 RDE .3290 RRA .0488 RC3 -.3372 FAU .04543
 FDE .7292 FRA .4728 FC3-3.0900 BSP 16777
 BDE 1.5752 BRA .0581 BC3 6.5210 FSP -763

MID-COURSE EXECUTION ACCURACY

SGT 5264.6 SGR 589.7 SG3 232.4
 RRT .7834 RRF .7898 RTF .9328
 SGB 5297.6 R23 .0893 R13 .9333
 SG1 5285.0 SG2 365.1 THA 5.04

ORBIT DETERMINATION ACCURACY

ST 2478.1 SR 529.3 SS 674.4
 CRT .9978 CRS -.9807 CST -.9707
 LSA 2617.3 MSA 157.7 SSA 21.9
 EL1 2533.7 EL2 34.2 ALF 12.03

LAUNCH DATE FEB 16 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 500.403

RL 147.81 LAL .00 LOL 147.15 VL 26.868 GAL -.58 AZL 87.23 HCA 242.85 SMA 123.58 ECC .19627 INC 2.7653 V1 30.144
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.094 GAP 8.85 AZP 91.26 TAL 177.64 TAP 60.49 RCA 99.33 APO 147.84 V2 34.977
 RC 163.161 GL 21.40 GP -20.51 ZAL 91.30 ZAP 154.73 ETS 310.74 ZAE 128.93 ETE 196.91 ZAC 141.06 ETC 185.74 CLP-164.90

PLANETOCENTRIC CONIC

C3 12.619 VHL 3.552 DLA 39.86 RAL 46.96 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.571 DPA -4.69 RAP 49.97 ECC 1.2077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.68 19 24 22 4052.72 -30.43 177.63 272.26 62.90 20 31 55 3452.7 -33.80 169.47
 119.32 2 5 37 2811.43 -30.42 83.21 272.26 62.89 2 52 28 2211.4 -33.79 75.06
 60.68 19 24 22 4052.72 -30.43 177.63 272.26 62.90 20 31 55 3452.7 -33.80 169.47
 119.32 2 5 37 2811.43 -30.42 83.21 272.26 62.89 2 52 28 2211.4 -33.79 75.06
 60.68 19 24 22 4052.72 -30.43 177.63 272.26 62.90 20 31 55 3452.7 -33.80 169.47
 119.32 2 5 37 2811.43 -30.42 83.21 272.26 62.89 2 52 28 2211.4 -33.79 75.06

DIFFERENTIAL CORRECTIONS

TDE 1.4869 TRA .2202 TC3-6.6848 BAU 1.1290
 RDE .3228 RRA .0598 RC3 -.3207 FAU .04353
 FDE .6539 FRA .5462 FC3-2.9863 BSP 17060
 BDE 1.5216 BRA .2281 BC3 6.6925 FSP -748

MID-COURSE EXECUTION ACCURACY

SGT 5340.6 SGR 582.0 SG3 227.5
 RRT .7685 RRF .7679 RTF .9343
 SGB 5372.2 R23 .0724 R13 .9348
 SG1 5359.4 SG2 371.1 THA 4.81

ORBIT DETERMINATION ACCURACY

ST 2406.5 SR 522.0 SS 630.9
 CRT .9988 CRS -.9696 CST -.9671
 LSA 2537.2 MSA 155.6 SSA 23.6
 EL1 2462.4 EL2 24.7 ALF 12.23

LAUNCH DATE FEB 16 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 26.825 GAL .99 AZL 87.45 HCA 246.04 SMA 123.32 ECC .19932 INC 2.5456 VI 30.144
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.075 GAP 9.15 AZP 91.03 TAL 176.03 TAP 62.07 RCA 98.74 APO 147.90 V2 34.990
 RC 165.276 GL 19.58 GP -19.50 ZAL 88.20 ZAP 156.07 ETS 310.24 ZAE 129.13 ETE 196.11 ZAC 143.21 ETC 185.37 CLP-165.85

PLANETOCENTRIC CONIC
 C3 12.636 VHL 3.555 DLA 38.97 RAL 51.46 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.707 DPA -3.05 RAP 51.64 ECC 1.2080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.02 19 48 39 4035.06 -29.80 175.78 276.42 63.62 20 55 54 3435.1 -33.08 167.64
 117.98 2 17 17 2829.66 -29.78 84.37 276.42 63.61 3 4 26 2229.7 -33.06 76.23
 62.02 19 48 39 4035.06 -29.80 175.78 276.42 63.62 20 55 54 3435.1 -33.08 167.64
 117.98 2 17 17 2829.66 -29.78 84.37 276.42 63.61 3 4 26 2229.7 -33.06 76.23
 62.02 19 48 39 4035.06 -29.80 175.78 276.42 63.62 20 55 54 3435.1 -33.08 167.64
 117.98 2 17 17 2829.66 -29.78 84.37 276.42 63.61 3 4 26 2229.7 -33.06 76.23

DIFFERENTIAL CORRECTIONS
 TDE 1.4242 TRA .4206 TC3-6.7724 BAU 1.1452 SGT 5404.8 SGR 575.4 SG3 221.5 ST 2315.0 SR 515.1 SS 586.9
 RDE .3183 RRA .0716 RC3 -.3009 FAU .04132 RRT .7516 RRF .7462 RTF .9351 CRT .9984 CRS -.9531 CST -.9620
 FDE .5800 FRA .6187 FC3-2.8312 BSP 17285 SGB 5435.4 R23 .0605 R13 .9355 LSA 2437.9 MSA 157.2 SSA 24.9
 BDE 1.4594 BRA .4266 BC3 6.7791 FSP -729 SG1 5422.2 SG2 378.3 THA 4.60 EL1 2371.4 EL2 28.5 ALF 12.53

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 26.782 GAL 1.42 AZL 87.66 HCA 249.24 SMA 123.05 ECC .20261 INC 2.3364 VI 30.144
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.056 GAP 9.46 AZP 90.83 TAL 174.41 TAP 63.64 RCA 98.12 APO 147.99 V2 35.003
 RC 167.370 GL 17.78 GP -18.58 ZAL 85.00 ZAP 157.33 ETS 309.60 ZAE 129.30 ETE 195.39 ZAC 145.38 ETC 184.98 CLP-166.79

PLANETOCENTRIC CONIC
 C3 12.781 VHL 3.575 DLA 38.01 RAL 55.95 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 6.855 DPA -1.52 RAP 53.39 ECC 1.2103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.50 20 13 47 4016.60 -29.04 173.83 280.70 64.32 21 20 44 3416.6 -32.24 165.72
 116.50 2 27 55 2853.02 -29.03 85.88 280.69 64.30 3 15 28 2253.0 -32.23 77.77
 63.50 20 13 47 4016.60 -29.04 173.83 280.70 64.32 21 20 44 3416.6 -32.24 165.72
 116.50 2 27 55 2853.02 -29.03 85.88 280.69 64.30 3 15 28 2253.0 -32.23 77.77
 63.50 20 13 47 4016.60 -29.04 173.83 280.70 64.32 21 20 44 3416.6 -32.24 165.72
 116.50 2 27 55 2853.02 -29.03 85.88 280.69 64.30 3 15 28 2253.0 -32.23 77.77

DIFFERENTIAL CORRECTIONS
 TDE 1.3499 TRA .6293 TC3-6.7902 BAU 1.1613 SGT 5467.2 SGR 569.9 SG3 215.3 ST 2202.0 SR 507.7 SS 541.8
 RDE .3152 RRA .0834 RC3 -.2829 FAU .03921 RRT .7356 RRF .7257 RTF .9365 CRT .9957 CRS -.9291 CST -.9553
 FDE .5064 FRA .6860 FC3-2.6559 BSP 17537 SGB 5496.8 R23 .0492 R13 .9368 LSA 2318.0 MSA 162.4 SSA 25.8
 BDE 1.3862 BRA .6348 BC3 6.7961 FSP -712 SG1 5483.3 SG2 385.0 THA 4.41 EL1 2259.3 EL2 45.8 ALF 12.93

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 26.739 GAL 1.86 AZL 87.86 HCA 252.43 SMA 122.80 ECC .20617 INC 2.1357 VI 30.144
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.038 GAP 9.78 AZP 90.64 TAL 172.79 TAP 65.22 RCA 97.48 APO 148.11 V2 35.016
 RC 169.445 GL 16.00 GP -17.76 ZAL 81.74 ZAP 158.51 ETS 308.80 ZAE 129.44 ETE 194.75 ZAC 147.57 ETC 184.59 CLP-167.71

PLANETOCENTRIC CONIC
 C3 13.060 VHL 3.614 DLA 36.98 RAL 60.37 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 7.014 DPA -.08 RAP 55.21 ECC 1.2149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.16 20 39 51 3996.67 -28.17 171.73 285.05 64.99 21 46 28 3396.7 -31.29 163.66
 114.84 2 37 9 2882.24 -28.16 87.80 285.05 64.97 3 25 12 2282.2 -31.28 79.73
 65.16 20 39 51 3996.67 -28.17 171.73 285.05 64.99 21 46 28 3396.7 -31.29 163.66
 114.84 2 37 9 2882.24 -28.16 87.80 285.05 64.97 3 25 12 2282.2 -31.28 79.73
 65.16 20 39 51 3996.67 -28.17 171.73 285.05 64.99 21 46 28 3396.7 -31.29 163.66
 114.84 2 37 9 2882.24 -28.16 87.80 285.05 64.97 3 25 12 2282.2 -31.28 79.73

DIFFERENTIAL CORRECTIONS
 TDE 1.2657 TRA .8503 TC3-6.7250 BAU 1.1751 SGT 5522.7 SGR 565.4 SG3 208.9 ST 2074.7 SR 500.1 SS 499.4
 RDE .3134 RRA .0961 RC3 -.2642 FAU .03702 RRT .7196 RRF .7066 RTF .9377 CRT .9895 CRS -.8945 CST -.9468
 FDE .4351 FRA .7517 FC3-2.4537 BSP 17761 SGB 5551.6 R23 .0409 R13 .9379 LSA 2184.8 MSA 173.0 SSA 26.1
 BDE 1.3039 BRA .8558 BC3 6.7302 FSP -695 SG1 5537.8 SG2 391.5 THA 4.23 EL1 2132.9 EL2 70.2 ALF 13.43

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC
 RL 147.81 LAL .00 LOL 147.15 VL 26.697 GAL 2.33 AZL 88.06 HCA 255.63 SMA 122.54 ECC .21002 INC 1.9419 VI 30.144
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.020 GAP 10.11 AZP 90.48 TAL 171.16 TAP 66.80 RCA 96.80 APO 148.27 V2 35.030
 RC 171.498 GL 14.25 GP -17.02 ZAL 78.45 ZAP 159.62 ETS 307.84 ZAE 129.57 ETE 194.16 ZAC 149.77 ETC 184.16 CLP-168.62

PLANETOCENTRIC CONIC
 C3 13.481 VHL 3.672 DLA 35.88 RAL 64.71 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 7.185 DPA 1.27 RAP 57.10 ECC 1.2219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.99 21 7 0 3974.32 -27.19 169.42 289.46 65.64 22 13 15 3374.3 -30.24 161.40
 113.01 2 44 35 2918.35 -27.18 90.19 289.45 65.63 3 33 13 2318.3 -30.23 82.17
 66.99 21 7 0 3974.32 -27.19 169.42 289.46 65.64 22 13 15 3374.3 -30.24 161.40
 113.01 2 44 35 2918.35 -27.18 90.19 289.45 65.63 3 33 13 2318.3 -30.23 82.17
 66.99 21 7 0 3974.32 -27.19 169.42 289.46 65.64 22 13 15 3374.3 -30.24 161.40
 113.01 2 44 35 2918.35 -27.18 90.19 289.45 65.63 3 33 13 2318.3 -30.23 82.17

DIFFERENTIAL CORRECTIONS
 TDE 1.1734 TRA 1.0847 TC3-6.5775 BAU 1.1863 SGT 5571.9 SGR 561.5 SG3 202.3 ST 1940.8 SR 492.4 SS 461.5
 RDE .3129 RRA .1096 RC3 -.2449 FAU .03478 RRT .7044 RRF .6892 RTF .9389 CRT .9779 CRS -.8465 CST -.9367
 FDE .3672 FRA .8155 FC3-2.2332 BSP 17883 SGB 5600.1 R23 .0345 R13 .9391 LSA 2045.9 MSA 189.3 SSA 25.7
 BDE 1.2144 BRA 1.0902 BC3 6.5820 FSP -671 SG1 5586.0 SG2 397.6 THA 4.08 EL1 1999.8 EL2 99.8 ALF 13.97

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 528.970

RL 147.81 LAL .00 LOL 147.15 VL 26.655 GAL 2.82 AZL 88.25 MCA 258.83 SMA 122.29 ECC .21418 INC 1.7533 VI 30.144
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.003 GAP 10.46 AZP 90.34 TAL 169.54 TAP 68.38 RCA 96.10 APO 148.48 V2 35.043
 RC 175.532 GL 12.55 GP -16.34 ZAL 75.16 ZAP 160.66 ETS 306.69 ZAE 129.69 ETE 193.64 ZAC 151.99 ETC 183.68 CLP-169.51

PLANETOCENTRIC CONIC

C3 14.055 VHL 3.749 DLA 34.71 RAL 68.92 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 7.368 DPA 2.53 RAP 59.04 ECC 1.2313
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.03 21 35 23 3948.64 -26.11 166.85 293.89 66.27 22 41 11 3348.6 -29.09 158.89
 110.97 2 49 48 2962.29 -26.10 93.13 293.89 66.26 3 39 10 2362.3 -29.08 85.17
 69.03 21 35 23 3948.64 -26.11 166.85 293.89 66.27 22 41 11 3348.6 -29.09 158.89
 110.97 2 49 48 2962.29 -26.10 93.13 293.89 66.26 3 39 10 2362.3 -29.08 85.17
 69.03 21 35 23 3948.64 -26.11 166.85 293.89 66.27 22 41 11 3348.6 -29.09 158.89
 110.97 2 49 48 2962.29 -26.10 93.13 293.89 66.26 3 39 10 2362.3 -29.08 85.17

DIFFERENTIAL CORRECTIONS

TOE 1.0676 TRA 1.3279 TC3-6.3714 BAU 1.1980
 RDE .3130 RRA .1234 RC3 -.2273 FAU .03268
 FDE .2995 FRA .8754 FC3-2.0128 BSP 18074
 BOE 1.1125 BRA 1.3337 BC3 6.3754 FSP -652

MID-COURSE EXECUTION ACCURACY

SGT 5619.6 SGR 557.3 SG3 195.8
 RRT .6901 RRF .6727 RTF .9403
 SGB 5647.2 R23 .0283 R13 .9404
 SG1 5632.8 SG2 402.4 THA 3.94

ORBIT DETERMINATION ACCURACY

ST 1797.5 SR 483.3 SS 427.0
 CRT .9579 CRS -.7797 CST -.9246
 LSA 1897.7 MSA 212.2 SSA 24.8
 EL1 1856.5 EL2 134.4 ALF 14.52

LAUNCH DATE FEB 16 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 534.602

RL 147.81 LAL .00 LOL 147.15 VL 26.613 GAL 3.33 AZL 88.43 MCA 262.04 SMA 122.04 ECC .21868 INC 1.5688 VI 30.144
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.985 GAP 10.82 AZP 90.22 TAL 167.92 TAP 69.96 RCA 95.35 APO 148.72 V2 35.056
 RC 175.544 GL 10.90 GP -15.73 ZAL 71.89 ZAP 161.64 ETS 305.35 ZAE 129.79 ETE 193.16 ZAC 154.23 ETC 183.15 CLP-170.40

PLANETOCENTRIC CONIC

C3 14.797 VHL 3.847 DLA 33.50 RAL 72.97 RAD 6567.6 VEL 11.670 PTH 2.05 VHP 7.563 DPA 3.72 RAP 61.03 ECC 1.2435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.31 22 5 17 3918.18 -24.95 163.92 298.33 66.89 23 10 36 3318.2 -27.85 156.01
 108.69 2 52 16 3015.52 -24.94 96.73 298.32 66.88 3 42 31 2415.5 -27.85 88.82
 71.31 22 5 17 3918.18 -24.95 163.92 298.33 66.89 23 10 36 3318.2 -27.85 156.01
 108.69 2 52 16 3015.52 -24.94 96.73 298.32 66.88 3 42 31 2415.5 -27.85 88.82
 110.00 3 52 9 2832.16 -29.32 84.35 300.19 71.58 4 39 21 2232.2 -31.55 75.85
 110.00 2 8 31 3149.53 -20.72 104.96 296.14 62.18 3 1 1 2549.5 -24.27 97.61

DIFFERENTIAL CORRECTIONS

TOE .9517 TRA 1.5825 TC3-6.1063 BAU 1.2087
 RDE .3140 RRA .1379 RC3 -.2100 FAU .03064
 FDE .2341 FRA .9327 FC3-1.7928 BSP 18269
 BOE 1.0021 BRA 1.5885 BC3 6.1099 FSP -634

MID-COURSE EXECUTION ACCURACY

SGT 5662.8 SGR 552.8 SG3 189.3
 RRT .6766 RRF .6575 RTF .9417
 SGB 5689.7 R23 .0231 R13 .9418
 SG1 5675.2 SG2 406.1 THA 3.80

ORBIT DETERMINATION ACCURACY

ST 1657.8 SR 473.6 SS 399.2
 CRT .9252 CRS -.6922 CST -.9125
 LSA 1753.0 MSA 241.3 SSA 23.5
 EL1 1715.3 EL2 173.7 ALF 14.96

LAUNCH DATE FEB 16 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 540.200

RL 147.81 LAL .00 LOL 147.15 VL 26.572 GAL 3.87 AZL 88.61 MCA 265.24 SMA 121.79 ECC .22355 INC 1.3870 VI 30.144
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.968 GAP 11.20 AZP 90.11 TAL 166.31 TAP 71.55 RCA 94.56 APO 149.02 V2 35.069
 RC 177.535 GL 9.31 GP -15.17 ZAL 68.68 ZAP 162.55 ETS 303.80 ZAE 129.88 ETE 192.72 ZAC 156.47 ETC 182.54 CLP-171.28

PLANETOCENTRIC CONIC

C3 15.723 VHL 3.965 DLA 32.25 RAL 76.86 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 7.773 DPA 4.82 RAP 63.07 ECC 1.2588
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.89 22 37 22 3880.55 -23.71 160.45 302.75 67.48 23 42 2 3280.5 -26.55 152.61
 106.11 2 51 12 3080.42 -23.70 101.15 302.74 67.47 3 42 32 2480.4 -26.55 93.30
 73.89 22 37 22 3880.55 -23.71 160.45 302.75 67.48 23 42 2 3280.5 -26.55 152.61
 106.11 2 51 12 3080.42 -23.70 101.15 302.74 67.47 3 42 32 2480.4 -26.55 93.30
 110.00 4 42 33 2736.31 -31.18 77.51 305.58 75.23 5 28 10 2136.3 -32.89 68.70
 110.00 1 49 7 3272.65 -16.64 112.17 299.01 59.70 2 43 39 2672.7 -20.54 105.22

DIFFERENTIAL CORRECTIONS

TOE .8272 TRA 1.8504 TC3-5.7891 BAU 1.2175
 RDE .3160 RRA .1530 RC3 -.1928 FAU .02864
 FDE .1719 FRA .9886 FC3-1.5771 BSP 18441
 BOE .8855 BRA 1.8567 BC3 5.7923 FSP -616

MID-COURSE EXECUTION ACCURACY

SGT 5700.9 SGR 547.9 SG3 182.8
 RRT .6640 RRF .6435 RTF .9431
 SGB 5727.2 R23 .0187 R13 .9432
 SG1 5712.6 SG2 408.8 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 1532.1 SR 463.3 SS 379.8
 CRT .8746 CRS -.5851 CST -.9032
 LSA 1621.6 MSA 275.7 SSA 22.2
 EL1 1585.8 EL2 217.0 ALF 15.10

LAUNCH DATE FEB 16 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 545.759

RL 147.81 LAL .00 LOL 147.15 VL 26.531 GAL 4.43 AZL 88.79 MCA 268.45 SMA 121.55 ECC .22884 INC 1.2067 VI 30.144
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.951 GAP 11.61 AZP 90.03 TAL 164.70 TAP 73.15 RCA 93.73 APO 149.36 V2 35.083
 RC 179.506 GL 7.80 GP -14.66 ZAL 65.55 ZAP 163.41 ETS 302.02 ZAE 129.96 ETE 192.33 ZAC 158.72 ETC 181.81 CLP-172.15

PLANETOCENTRIC CONIC

C3 16.854 VHL 4.105 DLA 30.98 RAL 80.56 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 7.997 DPA 5.86 RAP 65.16 ECC 1.2774
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.89 23 12 49 3831.45 -22.43 156.16 307.14 68.05 24 16 41 3231.5 -25.21 148.38
 103.11 2 45 15 3161.22 -22.41 106.69 307.14 68.04 3 37 56 2561.2 -25.20 98.91
 76.89 23 12 49 3831.45 -22.43 156.16 307.14 68.05 24 16 41 3231.5 -25.21 148.38
 103.11 2 45 15 3161.22 -22.41 106.69 307.14 68.04 3 37 56 2561.2 -25.20 98.91
 110.00 5 21 51 2673.01 -32.19 72.85 310.51 77.82 6 6 24 2073.0 -33.53 63.87
 110.00 1 39 19 3367.66 -13.30 117.51 302.29 58.22 2 35 27 2767.7 -17.41 110.81

DIFFERENTIAL CORRECTIONS

TOE .6983 TRA 2.1359 TC3-5.4239 BAU 1.2228
 RDE .3191 RRA .1691 RC3 -.1750 FAU .02660
 FDE .1146 FRA 1.0451 FC3-1.3663 BSP 18505
 BOE .7678 BRA 2.1426 BC3 5.4267 FSP -594

MID-COURSE EXECUTION ACCURACY

SGT 5733.3 SGR 542.9 SG3 176.6
 RRT .6525 RRF .6314 RTF .9443
 SGB 5758.9 R23 .0160 R13 .9444
 SG1 5744.3 SG2 410.6 THA 3.55

ORBIT DETERMINATION ACCURACY

ST 1433.8 SR 452.9 SS 370.3
 CRT .8019 CRS -.4676 CST -.9015
 LSA 1516.6 MSA 312.3 SSA 20.8
 EL1 1480.6 EL2 262.1 ALF 14.69

LAUNCH DATE FEB 16 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 25 1969

Heliocentric Conic
 RL 147.81 LAL .00 LOL 147.15 VL 26.491 GAL 5.02 AZL 88.97 MCA 271.66 SMA 121.31 ECC .23456 INC 1.0269 VI 30.144
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.934 GAP 12.03 AZP 89.97 TAL 163.10 TAP 74.77 RCA 92.85 APO 149.76 V2 35.095
 RC 181.455 GL 6.36 GP -14.19 ZAL 62.52 ZAP 164.21 ETS 300.00 ZAE 130.02 ETE 191.97 ZAC 160.98 ETC 180.92 CLP-173.02

Planetocentric Conic
 C3 18.216 VHL 4.268 DLA 29.70 RAL 84.06 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 8.238 DPA 6.83 RAP 67.28 ECC 1.2998
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.65 23 54 46 3760.52 -21.10 150.30 311.50 68.61 24 57 26 3160.5 -23.82 142.58
 99.35 2 31 14 3268.20 -21.09 114.12 311.49 68.59 3 25 42 2668.2 -23.81 106.39
 100.00 3 4 53 3160.61 -23.39 107.05 312.41 70.84 3 57 34 2560.6 -25.79 99.07
 100.00 2 7 43 3343.34 -18.84 118.70 310.50 66.35 3 3 27 2743.3 -21.87 111.22
 110.00 5 55 43 2625.04 -32.82 69.25 315.20 79.86 6 39 28 2025.0 -33.87 60.17
 110.00 1 33 23 3451.67 -10.25 122.10 305.74 57.21 2 30 55 2851.7 -14.50 115.58

Differential Corrections
 TOE .5583 TRA 2.4315 TC3-5.0411 BAU 1.2283 SGT 5761.9 SGR 536.7 SG3 170.5 ST 1359.9 SR 441.6 SS 367.4
 RDE .3226 RRA .1854 RC3 -.1585 FAU .02471 RRT .6415 RRF .6195 RTF .9457 CRT .7029 CRS -.3414 CST -.9071
 FDE .0583 FRA 1.0985 FC3-1.1745 BSP 18667 SGB 5786.8 R23 .0127 R13 .9458 LSA 1434.5 MSA 347.9 SSA 19.5
 BDE .6448 BRA 2.4386 BC3 5.0436 FSP -577 SG1 5772.2 SG2 410.9 THA 3.44 EL1 1396.7 EL2 305.8 ALF 13.52

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 27 1969

Heliocentric Conic
 RL 147.81 LAL .00 LOL 147.15 VL 26.450 GAL 5.65 AZL 89.15 MCA 274.88 SMA 121.07 ECC .24078 INC .8463 VI 30.144
 RP 107.94 LAP -.84 LOP 62.03 VP 36.917 GAP 12.49 AZP 89.93 TAL 161.52 TAP 76.40 RCA 91.92 APO 150.23 V2 35.108
 RC 183.384 GL 5.01 GP -13.77 ZAL 59.61 ZAP 164.96 ETS 297.72 ZAE 130.08 ETE 191.64 ZAC 163.24 ETC 179.81 CLP-173.88

Planetocentric Conic
 C3 19.840 VHL 4.454 DLA 28.43 RAL 87.36 RAD 6567.8 VEL 11.884 PTH 2.11 VHP 8.496 DPA 7.72 RAP 69.44 ECC 1.3265
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.35 1 6 2 3606.09 -19.76 138.38 315.81 69.13 2 6 8 3006.1 -22.42 130.71
 92.65 1 50 13 3462.89 -19.75 127.89 315.80 69.12 2 47 56 2862.9 -22.41 120.23
 100.00 4 7 51 3019.46 -26.22 97.51 318.07 75.10 4 58 10 2419.5 -28.01 89.17
 100.00 1 31 5 3524.75 -13.54 129.57 312.94 63.09 2 29 50 2924.8 -17.04 122.53
 110.00 6 25 53 2587.36 -33.24 66.39 319.74 81.51 7 9 0 1987.4 -34.05 57.24
 110.00 1 29 32 3529.61 -7.34 126.27 309.27 56.52 2 28 22 2929.6 -11.70 119.88

Differential Corrections
 TOE .4121 TRA 2.7432 TC3-4.6422 BAU 1.2319 SGT 5786.5 SGR 529.7 SG3 164.6 ST 1321.1 SR 429.9 SS 371.5
 RDE .3270 RRA .2023 RC3 -.1424 FAU .02289 RRT .6312 RRF .6087 RTF .9473 CRT .5815 CRS -.2202 CST -.9203
 FDE .0055 FRA 1.1516 FC3 -.9987 BSP 18804 SGB 5810.7 R23 .0100 R13 .9473 LSA 1387.7 MSA 377.2 SSA 18.3
 BDE .5261 BRA 2.7506 BC3 4.6444 FSP -560 SG1 5796.2 SG2 410.1 THA 3.32 EL1 1346.3 EL2 343.2 ALF 11.47

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 29 1969

Heliocentric Conic
 RL 147.81 LAL .00 LOL 147.15 VL 26.411 GAL 6.31 AZL 89.34 MCA 278.09 SMA 120.84 ECC .24754 INC .6639 VI 30.144
 RP 107.90 LAP -.66 LOP 65.24 VP 36.901 GAP 12.97 AZP 89.91 TAL 159.95 TAP 78.04 RCA 90.93 APO 150.76 V2 35.120
 RC 185.291 GL 3.74 GP -13.38 ZAL 56.82 ZAP 165.64 ETS 295.15 ZAE 130.13 ETE 191.33 ZAC 165.49 ETC 178.36 CLP-174.74

Planetocentric Conic
 C3 21.762 VHL 4.665 DLA 27.18 RAL 90.45 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 8.774 DPA 8.55 RAP 71.63 ECC 1.3581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 47 3327.10 -24.08 119.51 322.03 74.64 3 46 14 2727.1 -25.96 111.34
 90.00 0 30 9 3786.19 -12.91 148.47 317.66 64.58 1 33 16 3186.2 -16.23 141.37
 100.00 4 48 21 2948.12 -27.37 92.53 322.94 77.48 5 37 29 2348.1 -28.82 84.02
 100.00 1 15 17 3640.40 -9.89 136.21 316.10 61.65 2 15 57 3040.4 -13.60 129.39
 110.00 6 53 7 2557.67 -33.51 64.11 324.17 82.83 7 35 45 1957.7 -34.14 54.93
 110.00 1 27 0 3603.62 -4.55 130.18 312.85 56.08 2 27 3 3003.6 -8.97 123.88

Differential Corrections
 TOE .2600 TRA 3.0719 TC3-4.2357 BAU 1.2329 SGT 5805.9 SGR 521.8 SG3 158.9 ST 1317.2 SR 418.0 SS 380.9
 RDE .3321 RRA .2195 RC3 -.1267 FAU .02110 RRT .6216 RRF .5987 RTF .9489 CRT .4475 CRS -.1110 CST -.9373
 FDE -.0442 FRA 1.2047 FC3 -.8395 BSP 18923 SGB 5829.3 R23 .0077 R13 .9489 LSA 1377.6 MSA 395.9 SSA 17.2
 BDE .4218 BRA 3.0797 BC3 4.2376 FSP -543 SG1 5815.0 SG2 408.1 THA 3.21 EL1 1331.6 EL2 369.8 ALF 8.76

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 196.00

ARRIVAL DATE AUG 31 1969

Heliocentric Conic
 RL 147.81 LAL .00 LOL 147.15 VL 26.372 GAL 7.01 AZL 89.52 MCA 281.31 SMA 120.61 ECC .25491 INC .4783 VI 30.144
 RP 107.87 LAP -.47 LOP 68.46 VP 36.884 GAP 13.49 AZP 89.91 TAL 158.40 TAP 79.71 RCA 89.87 APO 151.36 V2 35.132
 RC 187.175 GL 2.56 GP -13.02 ZAL 54.18 ZAP 166.27 ETS 292.29 ZAE 130.16 ETE 191.05 ZAC 167.74 ETC 176.39 CLP-175.61

Planetocentric Conic
 C3 24.026 VHL 4.902 DLA 25.96 RAL 93.35 RAD 6568.0 VEL 12.058 PTH 2.16 VHP 9.074 DPA 9.32 RAP 73.85 ECC 1.3954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 33 8 3248.23 -25.40 114.11 326.92 77.04 4 27 16 2648.2 -26.93 105.77
 90.00 0 10 55 3913.22 -9.08 155.85 320.74 63.06 1 16 9 3313.2 -12.63 148.96
 100.00 5 21 25 2899.11 -28.04 89.04 327.54 79.20 6 9 45 2299.1 -29.25 80.44
 100.00 1 5 19 3737.58 -6.70 141.66 319.46 60.80 2 7 36 3137.6 -10.54 134.98
 110.00 7 17 54 2534.67 -33.69 62.34 328.52 83.86 8 0 9 1934.7 -34.18 53.13
 110.00 1 25 19 3674.79 -1.84 133.90 316.45 55.86 2 26 34 3074.8 -6.30 127.66

Differential Corrections
 TOE .1061 TRA 3.4228 TC3-3.8248 BAU 1.2290 SGT 5820.5 SGR 513.3 SG3 153.5 ST 1345.5 SR 406.2 SS 394.2
 RDE .3383 RRA .2374 RC3 -.1111 FAU .01929 RRT .6127 RRF .5902 RTF .9504 CRT .3166 CRS -.0210 CST -.9540
 FDE -.0893 FRA 1.2599 FC3 -.6950 BSP 18932 SGB 5843.0 R23 .0064 R13 .9505 LSA 1403.0 MSA 402.6 SSA 16.3
 BDE .3546 BRA 3.4310 BC3 3.8264 FSP -522 SG1 5829.0 SG2 405.1 THA 3.11 EL1 1352.2 EL2 383.4 ALF 5.94

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 16 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 572.734

RL 147.81 LAL .00 LOL 147.15 VL 26.333 GAL 7.76 AZL 89.71 MCA 284.53 SMA 120.39 ECC .26294 INC .2882 V1 30.144
 RP 107.83 LAP -.28 LOP 71.68 VP 36.867 GAP 14.04 AZP 89.93 TAL 156.87 TAP 81.40 RCA 88.74 APO 152.05 V2 35.144
 RC 189.037 GL 1.46 GP -12.69 ZAL 51.67 ZAP 166.84 ETS 289.10 ZAE 130.17 ETE 190.79 ZAC 169.96 ETC 173.54 CLP-176.48

PLANETOCENTRIC CONIC

C3 26.686 VHL 5.166 DLA 24.79 RAL 96.05 RAD 6568.1 VEL 12.168 PTH 2.18 VHP 9.398 DPA 10.02 RAP 76.09 ECC 1.4392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 33 3196.87 -26.13 110.52 331.50 78.69 4 59 50 2596.9 -27.43 102.10
 90.00 23 55 8 4016.38 -5.86 161.70 324.06 62.25 25 2 4 3416.4 -9.53 154.95
 100.00 5 49 58 2863.43 -28.47 86.47 331.98 80.48 6 37 41 2263.4 -29.49 77.82
 100.00 0 58 20 3825.06 -3.77 146.50 322.92 60.32 2 2 5 3225.1 -7.69 139.91
 110.00 7 40 32 2517.51 -33.81 61.02 332.79 84.64 8 22 29 1917.5 -34.18 51.79
 110.00 1 24 15 3743.74 .80 137.50 320.07 55.83 2 26 39 3143.7 -3.69 131.29

DIFFERENTIAL CORRECTIONS

TOE -.0581 TRA 3.7889 TC3-3.4315 BAU 1.2247
 RDE .3449 RRA .2549 RC3 -.0969 FAU .01763
 FDE -.1337 FRA 1.3138 FC3 -.5719 BSP 19039
 BDE .3497 BRA 3.7974 BC3 3.4329 FSP -507

MID-COURSE EXECUTION ACCURACY

SGT 5830.9 SGR 503.3 SG3 148.3
 RRT .6037 RRF .5813 RTF .9524
 SGB 5852.5 R23 .0045 R13 .9524
 SG1 5838.8 SG2 400.7 THA 3.00

ORBIT DETERMINATION ACCURACY

ST 1394.2 SR 393.8 SS 409.4
 CRT .1920 CRS .0588 CST -.9676
 LSA 1451.4 MSA 399.6 SSA 15.4
 EL1 1396.4 EL2 385.8 ALF 3.36

LAUNCH DATE FEB 16 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 577.899

RL 147.81 LAL .00 LOL 147.15 VL 26.295 GAL 8.55 AZL 89.91 MCA 287.76 SMA 120.17 ECC .27172 INC .0925 V1 30.144
 RP 107.79 LAP -.09 LOP 74.91 VP 36.851 GAP 14.64 AZP 89.97 TAL 155.37 TAP 83.13 RCA 87.52 APO 152.83 V2 35.155
 RC 190.875 GL .44 GP -12.39 ZAL 49.31 ZAP 167.33 ETS 285.58 ZAE 130.17 ETE 190.54 ZAC 172.14 ETC 169.12 CLP-177.36

PLANETOCENTRIC CONIC

C3 29.807 VHL 5.460 DLA 23.65 RAL 98.57 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 9.750 DPA 10.67 RAP 78.35 ECC 1.4906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 56 3160.62 -26.59 107.97 335.90 79.89 5 27 36 2560.6 -27.72 99.48
 90.00 23 46 48 4107.81 -2.93 166.84 327.49 61.82 24 55 16 3507.8 -6.68 160.16
 100.00 6 15 11 2837.35 -28.75 84.59 336.30 81.44 7 2 29 2237.4 -29.63 75.89
 100.00 0 53 10 3906.32 -1.02 150.97 326.42 60.12 1 58 16 3306.3 -4.99 144.43
 110.00 8 1 14 2505.57 -33.88 60.09 337.01 85.18 8 43 0 1905.6 -34.18 50.86
 110.00 1 23 36 3810.86 3.36 141.00 323.69 55.96 2 27 7 3210.9 -1.13 134.79

DIFFERENTIAL CORRECTIONS

TOE -.2277 TRA 4.1767 TC3-3.0523 BAU 1.2168
 RDE .3521 RRA .2725 RC3 -.0834 FAU .01601
 FDE -.1755 FRA 1.3692 FC3 -.4650 BSP 19134
 BDE .4194 BRA 4.1856 BC3 3.0534 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 5836.4 SGR 492.3 SG3 143.3
 RRT .5948 RRF .5729 RTF .9545
 SGB 5857.2 R23 .0031 R13 .9545
 SG1 5843.8 SG2 395.2 THA 2.89

ORBIT DETERMINATION ACCURACY

ST 1458.8 SR 381.2 SS 425.9
 CRT .0834 CRS .1243 CST -.9777
 LSA 1517.5 MSA 389.6 SSA 14.6
 EL1 1459.1 EL2 379.8 ALF 1.34

LAUNCH DATE FEB 16 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 582.956

RL 147.81 LAL .00 LOL 147.15 VL 26.257 GAL 9.40 AZL 90.11 MCA 290.98 SMA 119.96 ECC .28133 INC .1093 V1 30.144
 RP 107.76 LAP .10 LOP 78.13 VP 36.835 GAP 15.29 AZP 90.04 TAL 153.91 TAP 84.89 RCA 86.21 APO 153.71 V2 35.166
 RC 192.690 GL -.49 GP -12.12 ZAL 47.10 ZAP 167.76 ETS 281.71 ZAE 130.15 ETE 190.31 ZAC 174.23 ETC 161.45 CLP-178.26

PLANETOCENTRIC CONIC

C3 33.469 VHL 5.785 DLA 22.57 RAL 100.90 RAD 6568.3 VEL 12.443 PTH 2.25 VHP 10.133 DPA 11.25 RAP 80.62 ECC 1.5508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 46 3134.81 -26.89 106.14 340.19 80.76 5 52 1 2534.8 -27.89 97.61
 90.00 23 40 35 4191.90 -.22 171.53 330.97 61.68 24 50 26 3591.9 -4.01 164.89
 100.00 6 37 45 2818.86 -28.93 83.24 340.54 82.13 7 24 44 2218.9 -29.72 74.52
 100.00 0 49 12 3983.08 1.58 155.18 329.97 60.15 1 55 35 3383.1 -2.40 148.66
 110.00 8 20 12 2498.34 -33.92 59.53 341.17 85.51 9 1 50 1898.3 -34.17 50.29
 110.00 1 23 15 3876.37 5.85 144.44 327.31 56.26 2 27 51 3276.4 1.38 138.21

DIFFERENTIAL CORRECTIONS

TOE -.4035 TRA 4.5885 TC3-2.6913 BAU 1.2046
 RDE .3601 RRA .2897 RC3 -.0707 FAU .01442
 FDE -.2152 FRA 1.4266 FC3 -.3731 BSP 19200
 BDE .5408 BRA 4.5976 BC3 2.6922 FSP -475

MID-COURSE EXECUTION ACCURACY

SGT 5837.5 SGR 480.0 SG3 138.6
 RRT .5858 RRF .5646 RTF .9569
 SGB 5857.2 R23 .0020 R13 .9569
 SG1 5844.3 SG2 388.6 THA 2.77

ORBIT DETERMINATION ACCURACY

ST 1532.4 SR 368.6 SS 443.2
 CRT -.0083 CRS .1779 CST -.9849
 LSA 1593.5 MSA 375.6 SSA 13.9
 EL1 1532.4 EL2 368.6 ALF 179.88

LAUNCH DATE FEB 16 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 587.885

RL 147.81 LAL .00 LOL 147.15 VL 26.220 GAL 10.31 AZL 90.32 MCA 294.21 SMA 119.75 ECC .29189 INC .3217 V1 30.144
 RP 107.73 LAP .29 LOP 81.36 VP 36.818 GAP 15.99 AZP 90.13 TAL 152.48 TAP 86.69 RCA 84.79 APO 154.70 V2 35.177
 RC 194.480 GL -1.35 GP -11.86 ZAL 45.03 ZAP 168.11 ETS 277.51 ZAE 130.11 ETE 190.09 ZAC 176.09 ETC 145.93 CLP-179.16

PLANETOCENTRIC CONIC

C3 37.769 VHL 6.146 DLA 21.54 RAL 103.06 RAD 6568.5 VEL 12.615 PTH 2.29 VHP 10.551 DPA 11.77 RAP 82.89 ECC 1.6216
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 49 3117.01 -27.08 104.87 344.38 81.37 6 13 46 2517.0 -27.99 96.32
 90.00 23 35 44 4270.76 2.32 175.93 334.48 61.77 24 46 55 3670.8 -1.47 169.30
 100.00 6 58 4 2806.66 -29.04 82.35 344.69 82.58 7 44 51 2206.7 -29.76 73.62
 100.00 0 46 6 4056.34 4.06 159.21 333.52 60.36 1 53 42 3456.3 .08 152.68
 110.00 8 37 34 2495.38 -33.94 59.30 345.28 85.64 9 19 10 1895.4 -34.17 50.06
 110.00 1 23 6 3940.39 8.26 147.83 330.94 56.71 2 28 46 3340.4 3.82 141.56

DIFFERENTIAL CORRECTIONS

TOE -.5811 TRA 5.0311 TC3-2.3470 BAU 1.1854
 RDE .3690 RRA .3066 RC3 -.0587 FAU .01281
 FDE -.2515 FRA 1.4878 FC3 -.2936 BSP 19150
 BDE .6883 BRA 5.0404 BC3 2.3477 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 5834.8 SGR 466.9 SG3 134.1
 RRT .5769 RRF .5571 RTF .9593
 SGB 5853.4 R23 .0015 R13 .9594
 SG1 5841.0 SG2 381.0 THA 2.65

ORBIT DETERMINATION ACCURACY

ST 1609.2 SR 356.2 SS 460.5
 CRT -.0815 CRS .2189 CST -.9899
 LSA 1673.0 MSA 359.9 SSA 13.3
 EL1 1609.5 EL2 354.9 ALF 178.91

LAUNCH DATE FEB 16 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 592.661
 RL 147.81 LAL .00 LOL 147.15 VL 26.184 GAL 11.29 AZL 90.55 HCA 297.43 SMA 119.54 ECC .30351 INC .5449 VI 30.144
 RP 107.70 LAP .48 LOP 84.58 VP 36.802 GAP 16.76 AZP 90.25 TAL 151.11 TAP 88.54 RCA 83.26 APO 155.82 V2 35.187
 RC 196.245 GL -2.14 GP -11.63 ZAL 43.12 ZAP 168.37 ETS 272.97 ZAE 130.04 ETE 189.88 ZAC 177.26 ETC 111.81 CLP 179.91

PLANETOCENTRIC CONIC

C3 42.829 VHL 6.544 DLA 20.57 RAL 105.05 RAD 6568.6 VEL 12.814 PTH 2.33 VHP 11.009 OPA 12.23 RAP 85.16 ECC 1.7049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 35 3105.72 -27.19 104.06 348.47 81.76 6 33 20 2505.7 -28.05 95.50
 90.00 23 31 51 4345.53 4.72 180.11 338.01 62.05 24 44 17 3745.5 .94 173.47
 100.00 7 16 27 2799.82 -29.10 81.85 348.77 82.84 8 3 6 2199.8 -29.79 73.11
 100.00 0 43 36 4126.67 6.41 163.10 337.08 60.74 1 52 23 3526.7 2.47 156.54
 110.00 8 53 28 2496.27 -33.93 59.37 349.34 85.60 9 35 4 1896.3 -34.17 50.13
 110.00 1 23 4 4002.98 10.58 151.20 334.56 57.30 2 29 47 3403.0 6.19 144.85

DIFFERENTIAL CORRECTIONS

TDE -.7711 TRA 5.4974 TC3-2.0315 BAU 1.1635
 RDE .3783 RRA .3224 RC3 -.0481 FAU .01130
 FDE -.2882 FRA 1.5504 FC3 -.2284 BSP 19226
 BDE .8589 BRA 5.5068 BC3 2.0320 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 5826.9 SGR 452.2 SG3 129.7
 RRT .5667 RRF .5482 RTF .9621
 SGB 5844.4 R23 .0009 R13 .9621
 SG1 5832.6 SG2 372.2 THA 2.53

ORBIT DETERMINATION ACCURACY

ST 1685.4 SR 343.3 SS 478.3
 CRT -.1451 CRS .2560 CST -.9932
 LSA 1752.0 MSA 343.1 SSA 12.7
 EL1 1686.2 EL2 339.5 ALF 178.24

LAUNCH DATE FEB 16 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 597.253
 RL 147.81 LAL .00 LOL 147.15 VL 26.148 GAL 12.36 AZL 90.78 HCA 300.66 SMA 119.34 ECC .31635 INC .7816 VI 30.144
 RP 107.67 LAP .67 LOP 87.81 VP 36.786 GAP 17.60 AZP 90.40 TAL 149.79 TAP 90.46 RCA 81.59 APO 157.10 V2 35.196
 RC 197.986 GL -2.86 GP -11.41 ZAL 41.35 ZAP 168.54 ETS 268.14 ZAE 129.94 ETE 189.67 ZAC 176.88 ETC 67.73 CLP 178.96

PLANETOCENTRIC CONIC

C3 48.800 VHL 6.986 DLA 19.66 RAL 106.87 RAD 6568.8 VEL 13.045 PTH 2.38 VHP 11.513 OPA 12.64 RAP 87.43 ECC 1.8031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 20 3099.87 -27.24 103.64 352.48 81.97 6 51 0 2499.9 -28.07 95.07
 90.00 23 28 41 4416.91 6.98 184.14 341.54 62.49 24 42 18 3816.9 3.24 177.46
 100.00 7 33 5 2797.61 -29.12 81.69 352.77 82.92 8 19 42 2197.6 -29.79 72.95
 100.00 0 41 34 4194.40 8.65 166.89 340.64 61.27 1 51 28 3594.4 4.75 160.27
 110.00 9 8 0 2500.65 -33.91 59.71 353.34 85.40 9 49 40 1900.7 -34.17 50.48
 110.00 1 23 8 4064.12 12.81 154.53 338.16 58.03 2 30 52 3464.1 8.49 148.09

DIFFERENTIAL CORRECTIONS

TDE -.9698 TRA 5.9958 TC3-1.7387 BAU 1.1347
 RDE .3883 RRA .3369 RC3 -.0384 FAU .00979
 FDE -.3236 FRA 1.6170 FC3 -.1737 BSP 19235
 BDE 1.0447 BRA 6.0052 BC3 1.7392 FSP -430

MID-COURSE EXECUTION ACCURACY

SGT 5814.0 SGR 436.3 SG3 125.6
 RRT .5554 RRF .5387 RTF .9650
 SGB 5830.4 R23 .0008 R13 .9650
 SG1 5819.1 SG2 362.5 THA 2.40

ORBIT DETERMINATION ACCURACY

ST 1758.5 SR 330.4 SS 496.4
 CRT -.1985 CRS .2871 CST -.9955
 LSA 1827.9 MSA 326.1 SSA 12.1
 EL1 1759.7 EL2 323.6 ALF 177.79

LAUNCH DATE FEB 16 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 601.622
 RL 147.81 LAL .00 LOL 147.15 VL 26.113 GAL 13.51 AZL 91.04 HCA 303.89 SMA 119.15 ECC .33056 INC 1.0350 VI 30.144
 RP 107.64 LAP .86 LOP 91.05 VP 36.769 GAP 18.52 AZP 90.58 TAL 148.55 TAP 92.44 RCA 79.76 APO 158.53 V2 35.205
 RC 199.701 GL -3.52 GP -11.22 ZAL 39.72 ZAP 168.60 ETS 263.06 ZAE 129.81 ETE 189.47 ZAC 175.34 ETC 43.96 CLP 177.97

PLANETOCENTRIC CONIC

C3 55.873 VHL 7.475 DLA 18.80 RAL 108.55 RAD 6569.0 VEL 13.313 PTH 2.43 VHP 12.070 OPA 12.99 RAP 89.68 ECC 1.9195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 15 20 3098.66 -27.26 103.56 356.40 82.01 7 6 59 2498.7 -28.08 94.99
 90.00 23 26 1 4485.27 9.11 188.03 345.05 63.07 24 40 46 3885.3 5.43 181.29
 100.00 7 48 7 2799.45 -29.10 81.82 356.68 82.85 8 34 47 2199.4 -29.79 73.09
 100.00 0 39 51 4259.72 10.76 170.58 344.18 61.94 1 50 50 3659.7 6.93 163.89
 110.00 9 21 14 2508.15 -33.87 60.29 357.27 85.06 10 3 2 1908.1 -34.18 51.06
 110.00 1 23 14 4123.78 14.93 157.85 341.75 58.89 2 31 57 3523.8 10.70 151.30

DIFFERENTIAL CORRECTIONS

TDE -1.1752 TRA 6.5331 TC3-1.4692 BAU 1.0977
 RDE .3991 RRA .3496 RC3 -.0297 FAU .00828
 FDE -.3584 FRA 1.6885 FC3 -.1283 BSP 19270
 BDE 1.2412 BRA 6.5424 BC3 1.4695 FSP -416

MID-COURSE EXECUTION ACCURACY

SGT 5798.3 SGR 419.2 SG3 121.6
 RRT .5429 RRF .5280 RTF .9681
 SGB 5813.4 R23 .0005 R13 .9681
 SG1 5802.8 SG2 351.8 THA 2.26

ORBIT DETERMINATION ACCURACY

ST 1826.0 SR 317.5 SS 514.8
 CRT -.2427 CRS .3139 CST -.9970
 LSA 1898.5 MSA 309.5 SSA 11.5
 EL1 1827.7 EL2 307.7 ALF 177.51

LAUNCH DATE FEB 16 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 605.721
 RL 147.81 LAL .00 LOL 147.15 VL 26.080 GAL 14.77 AZL 91.31 HCA 307.12 SMA 118.96 ECC .34635 INC 1.3084 VI 30.144
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.753 GAP 19.54 AZP 90.79 TAL 147.38 TAP 94.50 RCA 77.76 APO 160.16 V2 35.213
 RC 201.391 GL -4.12 GP -11.03 ZAL 38.25 ZAP 168.56 ETS 257.79 ZAE 129.63 ETE 189.27 ZAC 173.45 ETC 33.09 CLP 176.95

PLANETOCENTRIC CONIC

C3 64.289 VHL 8.018 DLA 18.01 RAL 110.06 RAD 6569.2 VEL 13.625 PTH 2.49 VHP 12.688 OPA 13.29 RAP 91.90 ECC 2.0580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 43 3101.44 -27.23 103.75 .22 81.91 7 21 24 2501.4 -28.07 95.19
 90.00 23 23 44 4550.80 11.11 191.81 348.53 63.79 24 39 35 3950.8 7.50 185.00
 100.00 8 1 42 2804.79 -29.06 82.21 .50 82.65 8 48 27 2204.8 -29.77 73.48
 100.00 0 38 21 4322.68 12.76 174.20 347.68 62.74 1 50 24 3722.7 9.00 167.42
 110.00 9 33 14 2518.40 -33.80 61.09 1.12 84.60 10 15 13 1918.4 -34.18 51.86
 110.00 1 23 18 4181.84 16.95 161.14 345.31 59.86 2 33 0 3581.8 12.81 154.47

DIFFERENTIAL CORRECTIONS

TDE -1.3914 TRA 7.1104 TC3-1.2225 BAU 1.0509
 RDE .4109 RRA .3602 RC3 -.0221 FAU .00674
 FDE -.3927 FRA 1.7658 FC3 -.0907 BSP 19270
 BDE 1.4508 BRA 7.1195 BC3 1.2227 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 5777.2 SGR 400.9 SG3 117.8
 RRT .5282 RRF .5155 RTF .9712
 SGB 5791.1 R23 .0008 R13 .9712
 SG1 5781.1 SG2 340.1 THA 2.11

ORBIT DETERMINATION ACCURACY

ST 1887.0 SR 304.6 SS 533.9
 CRT -.2813 CRS .3375 CST -.9980
 LSA 1962.8 MSA 293.2 SSA 11.0
 EL1 1889.0 EL2 292.0 ALF 177.34

LAUNCH DATE FEB 16 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 609.487

RL 147.81 LAL .00 LOL 147.15 VL 26.047 GAL 16.15 AZL 91.61 HCA 310.36 SMA 118.78 ECC .36397 INC 1.6063 V1 30.144
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.738 GAP 20.68 AZP 91.04 TAL 146.32 TAP 96.67 RCA 75.55 APO 162.01 V2 35.221
 RC 203.056 GL -4.67 GP -10.86 ZAL 36.92 ZAP 168.39 ETS 252.40 ZAE 129.40 ETE 189.06 ZAC 171.47 ETC 27.33 CLP 175.88

PLANETOCENTRIC CONIC

C3 74.358 VHL 8.623 CLA 17.27 RAL 111.42 RAD 6569.4 VEL 13.990 PTH 2.55 VHP 13.379 DPA 13.53 RAP 94.08 ECC 2.2237
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 35 3107.64 -27.17 104.20 3.91 81.70 7 34 23 2507.6 -28.04 95.64
 90.00 23 21 43 4613.58 12.97 195.48 351.96 64.61 24 38 36 4013.6 9.44 188.58
 100.00 8 13 54 2813.19 -28.98 82.83 4.20 82.34 9 0 47 2213.2 -29.74 74.10
 100.00 0 37 1 4383.26 14.62 177.73 351.13 63.63 1 50 4 3783.3 10.96 170.85
 110.00 9 44 4 2531.07 -33.72 62.06 4.87 84.02 10 26 15 1931.1 -34.18 52.85
 110.00 1 23 20 4238.14 18.84 164.41 348.82 60.94 2 33 58 3638.1 14.82 157.60

DIFFERENTIAL CORRECTIONS

TDE -1.6158 TRA 7.7382 TC3 -.9966 BAU .9908
 RDE .4238 RRA .3679 RC3 -.0154 FAU .00510
 FDE -.4264 FRA 1.8511 FC3 -.0593 BSP 19184
 BDE 1.6704 BRA 7.7470 BC3 .9967 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 5753.0 SGR 381.5 SG3 114.3
 RRT .5111 RRF .5008 RTF .9744
 SGB 5765.6 R23 .0013 R13 .9744
 SG1 5756.3 SG2 327.7 THA 1.95

ORBIT DETERMINATION ACCURACY

ST 1940.2 SR 291.9 SS 553.9
 CRT -.3147 CRS .3582 CST -.9987
 LSA 2019.7 MSA 277.5 SSA 10.4
 EL1 1942.4 EL2 276.7 ALF 177.23

LAUNCH DATE FEB 16 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 612.839

RL 147.81 LAL .00 LOL 147.15 VL 26.016 GAL 17.67 AZL 91.93 HCA 313.59 SMA 118.60 ECC .38368 INC 1.9344 V1 30.144
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.722 GAP 21.95 AZP 91.33 TAL 145.37 TAP 98.96 RCA 73.10 APO 164.11 V2 35.228
 RC 204.697 GL -5.16 GP -10.70 ZAL 35.75 ZAP 168.10 ETS 246.97 ZAE 129.11 ETE 188.85 ZAC 169.48 ETC 23.85 CLP 174.76

PLANETOCENTRIC CONIC

C3 86.483 VHL 9.300 CLA 16.59 RAL 112.63 RAD 6569.7 VEL 14.416 PTH 2.62 VHP 14.153 DPA 13.74 RAP 96.22 ECC 2.4233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 1 3116.77 -27.08 104.85 7.47 81.38 7 45 58 2516.8 -27.99 96.30
 90.00 23 19 52 4673.53 14.69 199.04 355.31 65.52 24 37 46 4073.5 11.26 192.04
 100.00 8 24 45 2824.21 -28.88 83.63 7.77 81.93 9 11 49 2224.2 -29.69 74.92
 100.00 0 35 46 4441.33 16.34 181.18 354.51 64.62 1 49 47 3841.3 12.79 174.19
 110.00 9 53 44 2545.81 -33.61 63.20 8.49 83.36 10 36 9 1945.8 -34.16 54.00
 110.00 1 23 17 4292.49 20.60 167.64 352.26 62.10 2 34 49 3692.5 16.71 160.68

DIFFERENTIAL CORRECTIONS

TDE -1.8566 TRA 8.4153 TC3 -.7942 BAU .9183
 RDE .4377 RRA .3717 RC3 -.0098 FAU .00341
 FDE -.4618 FRA 1.9437 FC3 -.0341 BSP 19173
 BDE 1.9075 BRA 8.4235 BC3 .7943 FSP -377

MID-COURSE EXECUTION ACCURACY

SGT 5723.5 SGR 360.8 SG3 110.9
 RRT .4897 RRF .4818 RTF .9776
 SGB 5734.8 R23 .0018 R13 .9776
 SG1 5726.2 SG2 314.4 THA 1.77

ORBIT DETERMINATION ACCURACY

ST 1986.1 SR 279.1 SS 575.5
 CRT -.3466 CRS .3796 CST -.9992
 LSA 2070.0 MSA 261.9 SSA 9.9
 EL1 1988.5 EL2 261.4 ALF 177.16

LAUNCH DATE FEB 16 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 615.673

RL 147.81 LAL .00 LOL 147.15 VL 25.986 GAL 19.37 AZL 92.30 HCA 316.82 SMA 118.44 ECC .40583 INC 2.3000 V1 30.144
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.707 GAP 23.39 AZP 91.68 TAL 144.57 TAP 101.39 RCA 70.37 APO 166.51 V2 35.235
 RC 206.313 GL -5.61 GP -10.55 ZAL 34.73 ZAP 167.66 ETS 241.58 ZAE 128.74 ETE 188.64 ZAC 167.53 ETC 21.58 CLP 173.56

PLANETOCENTRIC CONIC

C3 101.189 VHL 10.059 CLA 15.98 RAL 113.67 RAD 6570.0 VEL 14.917 PTH 2.69 VHP 15.027 DPA 13.90 RAP 98.29 ECC 2.6653
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 4 4 3128.42 -26.96 105.68 10.87 80.98 7 56 12 2528.4 -27.93 97.15
 90.00 23 18 9 4730.52 16.27 202.48 358.55 66.50 24 36 59 4130.5 12.95 195.38
 100.00 8 34 17 2837.47 -28.75 84.59 11.18 81.44 9 21 34 2237.5 -29.63 75.90
 100.00 0 34 33 4496.69 17.93 184.53 357.78 65.67 1 49 29 3896.7 14.49 177.42
 110.00 10 2 13 2562.31 -33.47 64.47 11.95 82.62 10 44 56 1962.3 -34.13 55.29
 110.00 1 23 5 4344.62 22.23 170.81 355.60 63.34 2 35 30 3744.6 18.47 163.69

DIFFERENTIAL CORRECTIONS

TDE -2.1118 TRA 9.1531 TC3 -.6120 BAU .8280
 RDE .4532 RRA .3707 RC3 -.0052 FAU .00157
 FDE -.4982 FRA 2.0466 FC3 -.0135 BSP 19152
 BDE 2.1599 BRA 9.1606 BC3 .6121 FSP -366

MID-COURSE EXECUTION ACCURACY

SGT 5689.5 SGR 339.1 SG3 107.6
 RRT .4630 RRF .4577 RTF .9807
 SGB 5699.6 R23 .0026 R13 .9807
 SG1 5691.7 SG2 300.4 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 2023.6 SR 266.4 SS 599.0
 CRT -.3772 CRS .4010 CST -.9995
 LSA 2112.7 MSA 246.7 SSA 9.3
 EL1 2026.1 EL2 246.5 ALF 177.11

LAUNCH DATE FEB 16 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 617.853

RL 147.81 LAL .00 LOL 147.15 VL 25.957 GAL 21.26 AZL 92.71 HCA 320.05 SMA 118.29 ECC .43081 INC 2.7124 V1 30.144
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.693 GAP 25.02 AZP 92.08 TAL 143.94 TAP 103.99 RCA 67.33 APO 169.24 V2 35.240
 RC 207.904 GL -6.02 GP -10.41 ZAL 33.89 ZAP 167.06 ETS 236.29 ZAE 128.29 ETE 188.41 ZAC 165.65 ETC 20.01 CLP 172.28

PLANETOCENTRIC CONIC

C3 119.171 VHL 10.917 CLA 15.42 RAL 114.54 RAD 6570.2 VEL 15.508 PTH 2.77 VHP 16.019 DPA 14.02 RAP 100.28 ECC 2.9613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 42 3142.19 -26.81 106.66 14.07 80.51 8 5 4 2542.2 -27.84 98.15
 90.00 23 16 28 4784.30 17.70 205.78 1.65 67.53 24 36 12 4184.3 14.50 198.57
 100.00 8 42 29 2852.63 -28.59 85.69 14.40 80.88 9 30 2 2252.6 -29.55 77.02
 100.00 0 33 17 4549.09 19.37 187.75 .91 66.77 1 49 6 3949.1 16.06 180.52
 110.00 10 9 32 2580.26 -33.31 65.85 15.24 81.82 10 52 32 1980.3 -34.08 56.69
 110.00 1 22 44 4394.22 23.71 173.90 358.80 64.63 2 35 58 3794.2 20.10 166.62

DIFFERENTIAL CORRECTIONS

TDE -2.3818 TRA 9.9612 TC3 -.4485 BAU .7146
 RDE .4707 RRA .3634 RC3 -.0017 FAU .00049
 FDE -.5361 FRA 2.1617 FC3 .0036 BSP 19094
 BDE 2.4279 BRA 9.9678 BC3 .4485 FSP -355

MID-COURSE EXECUTION ACCURACY

SGT 5651.2 SGR 316.5 SG3 104.6
 RRT .4292 RRF .4263 RTF .9837
 SGB 5660.0 R23 .0034 R13 .9837
 SG1 5652.8 SG2 285.8 THA 1.38

ORBIT DETERMINATION ACCURACY

ST 2052.1 SR 254.1 SS 624.9
 CRT -.4071 CRS .4233 CST -.9997
 LSA 2147.6 MSA 231.9 SSA 8.8
 EL1 2054.7 EL2 231.8 ALF 177.08

LAUNCH DATE FEB 17 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 28 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.679 GAL -7.20 AZL 88.46 HCA 81.53 SMA 122.47 ECC .24071 INC 1.5440 VI 30.137
 RP 108.31 LAP 1.53 LOP 229.69 VP 36.972 GAP -12.27 AZP 89.77 TAL 204.18 TAP 285.71 RCA 92.99 APO 151.95 V2 34.987
 RC 50.327 GL 7.78 GP 14.12 ZAL 134.66 ZAP 16.00 ETS 301.60 ZAE 148.23 ETE 13.72 ZAC 128.57 ETC 151.22 CLP -7.62

DISTANCE 183.948

PLANETOCENTRIC CONIC
 C3 27.724 VHL 5.265 DLA 12.28 RAL 8.83 RAD 6568.1 VEL 12.211 PTH 2.19 VHP 8.420 DPA 26.79 RAP 34.75 ECC 1.4563
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 55 2685.46 -27.53 73.51 240.28 96.92 1 19 40 2085.5 -26.28 65.07
 90.00 15 43 4 4546.78 10.99 191.58 233.78 63.74 16 58 50 3946.8 7.37 184.77
 100.00 2 2 33 2402.84 -28.86 52.53 240.08 98.14 2 42 36 1802.8 -27.44 44.01
 100.00 16 58 7 4304.63 12.19 173.15 233.16 62.49 18 9 51 3704.6 8.41 166.40
 110.00 3 24 59 2144.88 -32.42 32.22 239.37 101.49 4 0 44 1544.9 -30.49 23.53
 110.00 17 52 10 4135.35 15.34 158.50 231.35 59.07 19 1 5 3535.3 11.12 151.93

DIFFERENTIAL CORRECTIONS
 TDE -.2223 TRA -.3385 TC3 .4877 BAU .1883 SGT 681.5 SGR 448.7 SG3 107.9 ST 267.4 SR 381.4 SS 49.0
 RDE -.3465 RRA .1720 RC3 .1426 FAU .03758 RRT .3142 RRF -.3861 RTF -.6608 CRT .8309 CRS -.0362 CST -.4661
 FDE -.0104 FRA -.1651 FC3-1.1734 BSP 1949 SGB 815.9 R23 -.0606 R13 -.6843 LSA 448.4 MSA 132.3 SSA 29.1
 BDE .4116 BRA .3797 BC3 .5081 FSP -271 SG1 704.1 SG2 412.3 THA 18.07 EL1 448.3 EL2 126.6 ALF 56.78

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 72.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.870 GAL -7.18 AZL 88.64 HCA 84.72 SMA 123.64 ECC .23097 INC 1.3616 VI 30.137
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.097 GAP -11.34 AZP 89.87 TAL 205.59 TAP 290.31 RCA 95.08 APO 152.19 V2 34.974
 RC 51.881 GL 7.09 GP 15.04 ZAL 136.38 ZAP 18.05 ETS 307.40 ZAE 147.17 ETE 15.55 ZAC 128.65 ETC 150.17 CLP -10.11

DISTANCE 190.714

PLANETOCENTRIC CONIC
 C3 26.347 VHL 5.133 DLA 10.99 RAL 7.58 RAD 6568.1 VEL 12.154 PTH 2.18 VHP 7.916 DPA 27.90 RAP 35.06 ECC 1.4336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 41 2629.60 -27.00 69.51 237.49 98.87 1 24 30 2029.6 -25.50 61.16
 90.00 15 27 18 4577.32 11.90 193.36 231.74 64.12 16 43 35 3977.3 8.32 186.50
 100.00 2 7 32 2349.49 -28.29 48.66 237.25 100.09 2 46 42 1749.5 -26.60 40.27
 100.00 16 43 8 4332.66 13.07 174.77 231.14 62.87 17 55 20 3732.7 9.33 167.98
 110.00 3 28 16 2096.86 -31.71 28.66 236.42 103.49 4 3 13 1496.9 -29.53 20.13
 110.00 17 38 53 4158.05 16.13 159.78 229.40 59.44 18 48 11 3558.1 11.95 153.16

DIFFERENTIAL CORRECTIONS
 TDE -.2094 TRA -.3193 TC3 .5339 BAU .1981 SGT 697.8 SGR 461.1 SG3 121.5 ST 258.4 SR 377.3 SS 66.1
 RDE -.3335 RRA .1780 RC3 .1771 FAU .04105 RRT .3518 RRF -.4345 RTF -.6732 CRT .8257 CRS -.3814 CST -.7504
 FDE -.0445 FRA -.2103 FC3-1.3487 BSP 2037 SGB 836.4 R23 -.0715 R13 -.7019 LSA 441.2 MSA 133.6 SSA 31.3
 BDE .3938 BRA .3656 BC3 .5625 FSP -311 SG1 726.4 SG2 414.7 THA 19.77 EL1 439.9 EL2 125.0 ALF 57.57

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 27.041 GAL -7.17 AZL 88.82 HCA 87.91 SMA 124.71 ECC .22238 INC 1.1811 VI 30.137
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.209 GAP -10.45 AZP 89.96 TAL 206.98 TAP 294.89 RCA 96.97 APO 152.44 V2 34.961
 RC 53.536 GL 6.32 GP 16.05 ZAL 138.02 ZAP 20.37 ETS 312.12 ZAE 146.29 ETE 17.54 ZAC 128.58 ETC 149.11 CLP -12.71

DISTANCE 197.468

PLANETOCENTRIC CONIC
 C3 25.205 VHL 5.020 DLA 9.67 RAL 6.44 RAD 6568.0 VEL 12.107 PTH 2.17 VHP 7.445 DPA 29.06 RAP 35.23 ECC 1.4148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 51 2575.18 -26.37 65.65 234.95 100.70 1 29 47 1975.2 -24.63 57.42
 90.00 15 12 0 4609.84 12.86 195.26 229.94 64.55 16 28 49 4009.8 9.33 188.36
 100.00 2 12 58 2297.48 -27.61 44.95 234.67 101.94 2 51 15 1697.5 -25.69 36.68
 100.00 16 28 35 4362.77 13.99 176.53 229.37 63.31 17 41 17 3762.8 10.30 169.68
 110.00 3 32 2 2050.06 -30.91 25.24 233.75 105.37 4 6 12 1450.1 -28.50 16.88
 110.00 17 26 0 4182.95 16.98 161.21 227.69 59.88 18 35 43 3583.0 12.85 154.53

DIFFERENTIAL CORRECTIONS
 TDE -.1958 TRA -.3018 TC3 .5759 BAU .2074 SGT 711.6 SGR 476.2 SG3 136.6 ST 247.4 SR 370.9 SS 90.7
 RDE -.3200 RRA .1852 RC3 .2168 FAU .04492 RRT .3912 RRF -.4864 RTF -.6831 CRT .8170 CRS -.5649 CST -.8742
 FDE -.0856 FRA -.2604 FC3-1.5427 BSP 2119 SGB 856.2 R23 -.0842 R13 -.7185 LSA 432.9 MSA 135.8 SSA 33.5
 BDE .3751 BRA .3541 BC3 .6153 FSP -356 SG1 747.8 SG2 417.0 THA 21.74 EL1 428.4 EL2 123.5 ALF 58.49

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 27.193 GAL -7.17 AZL 89.00 HCA 91.10 SMA 125.68 ECC .21484 INC 1.0016 VI 30.137
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.308 GAP -9.61 AZP 90.02 TAL 208.33 TAP 299.43 RCA 98.68 APO 152.68 V2 34.948
 RC 55.282 GL 5.50 GP 17.18 ZAL 139.57 ZAP 22.92 ETS 316.00 ZAE 145.60 ETE 19.72 ZAC 128.33 ETC 148.06 CLP -15.42

DISTANCE 204.206

PLANETOCENTRIC CONIC
 C3 24.259 VHL 4.925 DLA 8.33 RAL 5.41 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 7.005 DPA 30.27 RAP 35.22 ECC 1.3992
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 26 2522.27 -25.65 61.94 232.67 102.43 1 35 28 1922.3 -23.68 53.83
 90.00 14 57 15 4643.92 13.85 197.28 228.40 65.05 16 14 39 4043.9 10.37 190.33
 100.00 2 18 49 2246.91 -26.85 41.38 232.36 103.66 2 56 16 1646.9 -24.70 33.24
 100.00 16 14 34 4394.52 14.96 178.39 227.86 63.81 17 27 48 3794.5 11.32 171.49
 110.00 3 36 15 2004.55 -30.05 21.98 231.36 107.12 4 9 40 1404.6 -27.41 13.78
 110.00 17 13 36 4209.63 17.89 162.75 226.24 60.37 18 23 46 3609.6 13.81 156.01

DIFFERENTIAL CORRECTIONS
 TDE -.1815 TRA -.2861 TC3 .6120 BAU .2159 SGT 721.9 SGR 494.8 SG3 153.5 ST 234.7 SR 362.0 SS 120.5
 RDE -.3055 RRA .1937 RC3 .2622 FAU .04922 RRT .4315 RRF -.5411 RTF -.6902 CRT .8037 CRS -.6616 CST -.9283
 FDE -.1347 FRA -.3156 FC3-1.7565 BSP 2195 SGB 875.2 R23 -.0985 R13 -.7345 LSA 424.3 MSA 139.1 SSA 35.5
 BDE .3553 BRA .3455 BC3 .6658 FSP -407 SG1 768.1 SG2 419.6 THA 24.06 EL1 413.7 EL2 122.2 ALF 59.54

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 210.925

RL 147.84 LAL .00 LOL 148.16 VL 27.328 GAL -7.17 AZL 89.18 MCA 94.28 SMA 126.57 ECC .20825 INC .8218 V1 30.137
 RP 108.47 LAP .82 LOP 242.44 VP 37.395 GAP -8.80 AZP 90.06 TAL 209.63 TAP 303.92 RCA 100.21 APO 152.92 V2 34.936
 RC 57.109 GL 4.60 GP 18.42 ZAL 141.01 ZAP 25.71 ETS 319.24 ZAE 145.08 ETE 22.15 ZAC 127.87 ETC 147.04 CLP -18.26

PLANETOCENTRIC CONIC

C3 23.474 VHL 4.845 CLA 6.97 RAL 4.52 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 6.596 DPA 31.54 RAP 35.01 ECC 1.3863
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 25 2470.87 -24.85 58.39 230.66 104.03 1 41 36 1870.9 -22.68 50.40
 90.00 14 43 8 4679.22 14.85 199.39 227.12 65.61 16 1 7 4079.2 11.44 192.37
 100.00 2 25 6 2197.76 -26.01 37.97 230.32 105.28 3 1 43 1597.8 -23.66 29.96
 100.00 16 1 8 4427.56 15.94 180.36 226.59 64.37 17 14 56 3827.6 12.36 173.39
 110.00 3 40 57 1960.34 -29.12 18.87 229.25 108.75 4 13 38 1360.3 -26.28 10.84
 110.00 17 1 46 4237.74 18.83 164.39 225.03 60.93 18 12 24 3637.7 14.81 157.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1651 TRA -.2710 TC3 .6441 BAU .2249 SGT 729.3 SGR 518.3 SG3 172.5 ST 218.8 SR 349.8 SS 155.5
 RDE -.2892 RRA .2037 RC3 .3142 FAU .05405 RRT .4721 RRF -.5977 RTF -.6974 CRT .7828 CRS -.7161 CST -.9531
 FDE -.1946 FRA -.3770 FC3-1.9933 BSP 2304 SGB 894.7 R23 -.1118 R13 -.7528 LSA 415.3 MSA 143.5 SSA 37.1
 BDE .3331 BRA .3391 BC3 .7166 FSP -467 SG1 788.7 SG2 422.5 THA 26.79 EL1 394.6 EL2 120.7 ALF 60.94

LAUNCH DATE FEB 17 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 217.622

RL 147.84 LAL .00 LOL 148.16 VL 27.448 GAL -7.17 AZL 89.36 MCA 97.47 SMA 127.36 ECC .20251 INC .6406 V1 30.137
 RP 108.51 LAP .64 LOP 245.62 VP 37.471 GAP -8.03 AZP 90.08 TAL 210.86 TAP 308.33 RCA 101.57 APO 153.16 V2 34.923
 RC 59.010 GL 3.65 GP 19.78 ZAL 142.33 ZAP 28.72 ETS 322.00 ZAE 144.70 ETE 24.87 ZAC 127.21 ETC 146.08 CLP -21.25

PLANETOCENTRIC CONIC

C3 22.823 VHL 4.777 CLA 5.61 RAL 3.76 RAD 6567.9 VEL 12.008 PTH 2.14 VHP 6.218 DPA 32.87 RAP 34.58 ECC 1.3756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 7 49 2420.90 -23.98 54.99 228.90 105.53 1 48 10 1820.9 -21.62 47.11
 90.00 14 29 40 4715.47 15.86 201.57 226.08 66.23 15 48 15 4115.5 12.51 194.49
 100.00 2 31 49 2149.98 -25.11 34.70 228.54 106.77 3 7 39 1550.0 -22.58 26.82
 100.00 15 48 21 4461.62 16.93 182.40 225.57 64.99 17 2 43 3861.6 13.42 175.37
 110.00 3 46 8 1917.38 -28.14 15.91 227.41 110.25 4 18 6 1317.4 -25.13 8.04
 110.00 16 50 31 4266.99 19.78 166.11 224.06 61.54 18 1 38 3667.0 15.83 159.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1506 TRA -.2605 TC3 .6643 BAU .2324 SGT 730.8 SGR 547.4 SG3 193.1 ST 204.6 SR 334.6 SS 193.4
 RDE -.2713 RRA .2149 RC3 .3727 FAU .05926 RRT .5085 RRF -.6535 RTF -.6974 CRT .7543 CRS -.7452 CST -.9628
 FDE -.2636 FRA -.4415 FC3-2.2481 BSP 2371 SGB 913.1 R23 -.1282 R13 -.7684 LSA 409.4 MSA 149.0 SSA 38.3
 BDE .3103 BRA .3377 BC3 .7617 FSP -531 SG1 807.3 SG2 426.7 THA 30.03 EL1 373.3 EL2 120.4 ALF 62.09

LAUNCH DATE FEB 17 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 224.296

RL 147.84 LAL .00 LOL 148.16 VL 27.553 GAL -7.17 AZL 89.54 MCA 100.65 SMA 128.07 ECC .19753 INC .4569 V1 30.137
 RP 108.55 LAP .45 LOP 248.80 VP 37.537 GAP -7.30 AZP 90.08 TAL 212.01 TAP 312.65 RCA 102.78 APO 153.37 V2 34.911
 RC 60.976 GL 2.65 GP 21.28 ZAL 143.51 ZAP 31.95 ETS 324.41 ZAE 144.44 ETE 27.95 ZAC 126.32 ETC 145.20 CLP -24.41

PLANETOCENTRIC CONIC

C3 22.281 VHL 4.720 CLA 4.24 RAL 3.14 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 5.870 DPA 34.25 RAP 33.90 ECC 1.3667
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 15 40 2372.21 -23.06 51.72 227.40 106.91 1 55 12 1772.2 -20.52 43.96
 90.00 14 16 52 4752.50 16.86 203.83 225.28 66.91 15 36 4 4152.5 13.59 196.68
 100.00 2 39 0 2103.42 -24.16 31.57 227.01 108.16 3 14 3 1503.4 -21.45 23.82
 100.00 15 36 13 4496.52 17.92 184.52 224.79 65.67 16 51 9 3896.5 14.49 177.41
 110.00 3 51 48 1875.54 -27.12 13.08 225.82 111.65 4 23 4 1275.5 -23.94 5.36
 110.00 16 39 54 4297.17 20.75 167.92 223.33 62.21 17 51 31 3697.2 16.87 160.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1365 TRA -.2531 TC3 .6746 BAU .2397 SGT 726.6 SGR 583.7 SG3 215.7 ST 190.6 SR 315.8 SS 234.7
 RDE -.2508 RRA .2275 RC3 .4385 FAU .06492 RRT .5394 RRF -.7073 RTF -.6927 CRT .7140 CRS -.7582 CST -.9636
 FDE -.3441 FRA -.5094 FC3-2.5225 BSP 2438 SGB 932.0 R23 -.1438 R13 -.7850 LSA 407.0 MSA 154.7 SSA 38.9
 BDE .2855 BRA .3403 BC3 .8046 FSP -602 SG1 825.5 SG2 432.6 THA 33.88 EL1 348.4 EL2 121.0 ALF 63.20

LAUNCH DATE FEB 17 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 230.945

RL 147.84 LAL .00 LOL 148.16 VL 27.645 GAL -7.17 AZL 89.73 MCA 103.82 SMA 128.70 ECC .19321 INC .2692 V1 30.137
 RP 108.58 LAP .26 LOP 251.98 VP 37.594 GAP -6.60 AZP 90.06 TAL 213.06 TAP 316.88 RCA 103.84 APO 153.57 V2 34.900
 RC 63.000 GL 1.58 GP 22.92 ZAL 144.55 ZAP 35.41 ETS 326.58 ZAE 144.27 ETE 31.43 ZAC 125.19 ETC 144.43 CLP -27.76

PLANETOCENTRIC CONIC

C3 21.830 VHL 4.672 CLA 2.88 RAL 2.66 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 5.553 DPA 35.69 RAP 32.92 ECC 1.3593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 59 2324.58 -22.08 48.57 226.13 108.20 2 2 44 1724.6 -19.39 40.93
 90.00 14 4 42 4790.23 17.85 206.15 224.71 67.65 15 24 32 4190.2 14.67 198.92
 100.00 2 46 40 2057.88 -23.16 28.56 225.73 109.44 3 20 58 1457.9 -20.30 20.93
 100.00 15 24 42 4532.16 18.91 186.70 224.24 66.41 16 40 14 3932.2 15.56 179.51
 110.00 3 58 0 1834.65 -26.07 10.37 224.49 112.94 4 28 34 1234.6 -22.73 2.80
 110.00 16 29 52 4328.16 21.73 169.80 222.82 62.94 17 42 0 3728.2 17.92 162.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1234 TRA -.2494 TC3 .6729 BAU .2469 SGT 715.6 SGR 628.3 SG3 239.9 ST 178.0 SR 292.8 SS 279.3
 RDE -.2272 RRA .2413 RC3 .5125 FAU .07096 RRT .5617 RRF -.7572 RTF -.6819 CRT .6573 CRS -.7580 CST -.9572
 FDE -.4369 FRA -.5792 FC3-2.8141 BSP 2506 SGB 952.3 R23 -.1566 R13 -.8031 LSA 410.3 MSA 159.8 SSA 39.1
 BDE .2586 BRA .3471 BC3 .8459 FSP -679 SG1 844.2 SG2 440.6 THA 38.46 EL1 319.9 EL2 122.8 ALF 64.13

LAUNCH DATE FEB 17 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 237.567

RL 147.84 LAL .00 LOL 148.16 VL 27.724 GAL -7.16 AZL 89.92 HCA 107.00 SMA 129.25 ECC .18949 INC .0763 V1 30.137
 RP 108.62 LAP .07 LOP 255.16 VP 37.642 GAP -5.94 AZP 90.02 TAL 213.99 TAP 320.99 RCA 104.76 APO 153.75 V2 34.889
 RC 65.076 GL .46 GP 24.70 ZAL 145.43 ZAP 39.09 ETS 328.61 ZAE 144.14 ETE 35.36 ZAC 123.80 ETC 143.80 CLP -31.31

PLANETOCENTRIC CONIC

C3 21.455 VHL 4.632 DLA 1.50 RAL 2.32 RAD 6567.9 VEL 11.951 PTH 2.13 VHP 5.268 DPA 37.18 RAP 31.63 ECC 1.3531
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 32 50 2277.75 -21.05 45.52 225.11 109.39 2 10 48 1677.7 -18.21 38.00
 90.00 13 53 8 4828.69 18.83 208.55 224.37 68.45 15 13 37 4228.7 15.74 201.24
 100.00 2 54 53 2013.12 -22.12 25.64 224.69 110.64 3 28 26 1413.1 -19.11 18.14
 100.00 15 13 47 4568.55 19.88 188.97 223.92 67.21 16 29 55 3968.5 16.62 181.69
 110.00 4 4 44 1794.49 -24.98 7.76 223.41 114.13 4 34 38 1194.5 -21.50 .33
 110.00 16 20 25 4359.94 22.70 171.75 222.54 63.73 17 33 5 3759.9 18.98 164.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1108 TRA -2486 TC3 .6605 BAU .2551 SGT 698.4 SGR 683.0 SG3 266.0 ST 166.2 SR 265.1 SS 328.4
 RDE -.1995 RRA .2568 RC3 .5958 FAU .07740 RRT .5740 RRF -.8022 RTF -.6652 CRT .5748 CRS -.7420 CST -.9431
 FDE -.5450 FRA -.6513 FC3-3.1233 BSP 2614 SGB 976.9 R23 -.1617 R13 -.8246 LSA 421.4 MSA 163.1 SSA 38.8
 BDE .2282 BRA .3574 BC3 .8895 FSP -766 SG1 866.7 SG2 450.7 THA 43.89 EL1 286.4 EL2 125.9 ALF 65.04

LAUNCH DATE FEB 17 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 244.160

RL 147.84 LAL .00 LOL 148.16 VL 27.792 GAL -7.16 AZL 90.12 HCA 110.17 SMA 129.73 ECC .18628 INC .1215 V1 30.137
 RP 108.65 LAP -.11 LOP 258.33 VP 37.682 GAP -5.30 AZP 89.96 TAL 214.82 TAP 324.99 RCA 105.57 APO 153.90 V2 34.878
 RC 67.198 GL -.73 GP 26.63 ZAL 146.16 ZAP 42.98 ETS 330.58 ZAE 143.99 ETE 39.79 ZAC 122.17 ETC 143.33 CLP -35.08

PLANETOCENTRIC CONIC

C3 21.141 VHL 4.598 DLA .12 RAL 2.12 RAD 6567.9 VEL 11.938 PTH 2.12 VHP 5.015 DPA 38.70 RAP 29.98 ECC 1.3479
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 17 2231.39 -19.97 42.55 224.31 110.50 2 19 29 1631.4 -17.00 35.13
 90.00 13 42 6 4867.95 19.79 211.03 224.25 69.33 15 3 14 4267.9 16.81 203.63
 100.00 3 3 41 1968.83 -21.03 22.81 223.87 111.75 3 36 30 1368.8 -17.89 15.42
 100.00 15 3 24 4605.74 20.85 191.31 223.81 68.08 16 20 9 4005.7 17.69 183.94
 110.00 4 12 4 1754.81 -23.85 5.23 222.55 115.25 4 41 18 1154.8 -20.25 357.94
 110.00 16 11 31 4392.53 23.66 173.79 222.48 64.58 17 24 43 3792.5 20.04 166.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1025 TRA -.2541 TC3 .6299 BAU .2635 SGT 672.4 SGR 747.3 SG3 292.5 ST 160.1 SR 233.5 SS 378.8
 RDE -.1679 RRA .2727 RC3 .6872 FAU .08387 RRT .5674 RRF -.8407 RTF -.6329 CRT .4646 CRS -.7044 CST -.9246
 FDE -.6634 FRA -.7179 FC3-3.4345 BSP 2695 SGB 1005.3 R23 -.1597 R13 -.8468 LSA 442.0 MSA 163.9 SSA 38.3
 BDE .1967 BRA .3727 BC3 .9322 FSP -852 SG1 891.8 SG2 464.0 THA 50.29 EL1 250.4 EL2 132.3 ALF 64.86

LAUNCH DATE FEB 17 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 250.725

RL 147.84 LAL .00 LOL 148.16 VL 27.850 GAL -7.14 AZL 90.33 HCA 113.34 SMA 130.14 ECC .18351 INC .3289 V1 30.137
 RP 108.68 LAP -.30 LOP 261.50 VP 37.715 GAP -4.69 AZP 89.87 TAL 215.52 TAP 328.86 RCA 106.26 APO 154.02 V2 34.867
 RC 69.360 GL -1.99 GP 28.70 ZAL 146.72 ZAP 47.09 ETS 332.56 ZAE 143.76 ETE 44.73 ZAC 120.27 ETC 143.06 CLP -39.08

PLANETOCENTRIC CONIC

C3 20.880 VHL 4.569 DLA -1.28 RAL 2.06 RAD 6567.8 VEL 11.927 PTH 2.12 VHP 4.794 DPA 40.24 RAP 27.95 ECC 1.3436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 25 2185.14 -18.84 39.63 223.73 111.54 2 28 50 1585.1 -15.75 32.31
 90.00 13 31 32 4908.23 20.74 213.60 224.35 70.28 14 53 21 4308.2 17.87 206.11
 100.00 3 13 10 1924.66 -19.89 20.02 223.28 112.79 3 45 14 1324.7 -16.63 12.74
 100.00 14 53 28 4643.94 21.80 193.75 223.92 69.02 16 10 52 4043.9 18.75 186.28
 110.00 4 20 3 1715.30 -22.68 2.76 221.91 116.29 4 48 38 1115.3 -18.96 355.60
 110.00 16 3 5 4426.07 24.63 175.92 222.63 65.51 17 16 51 3826.1 21.11 168.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0979 TRA -.2647 TC3 .5825 BAU .2734 SGT 639.2 SGR 822.3 SG3 319.2 ST 158.9 SR 198.4 SS 431.9
 RDE -.1312 RRA .2890 RC3 .7873 FAU .09028 RRT .5381 RRF -.8728 RTF -.5822 CRT .3081 CRS -.6272 CST -.9037
 FDE -.7940 FRA -.7782 FC3-3.7433 BSP 2799 SGB 1041.5 R23 -.1452 R13 -.8709 LSA 472.8 MSA 162.0 SSA 37.4
 BDE .1637 BRA .3919 BC3 .9793 FSP -939 SG1 924.8 SG2 479.1 THA 57.65 EL1 210.5 EL2 142.5 ALF 63.02

LAUNCH DATE FEB 17 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 257.260

RL 147.84 LAL .00 LOL 148.16 VL 27.898 GAL -7.13 AZL 90.55 HCA 116.51 SMA 130.48 ECC .18114 INC .5462 V1 30.137
 RP 108.72 LAP -.49 LOP 264.67 VP 37.741 GAP -4.11 AZP 89.76 TAL 216.09 TAP 332.61 RCA 106.85 APO 154.12 V2 34.858
 RC 71.560 GL -3.33 GP 30.90 ZAL 147.11 ZAP 51.38 ETS 334.62 ZAE 143.37 ETE 50.15 ZAC 118.14 ETC 143.02 CLP -43.34

PLANETOCENTRIC CONIC

C3 20.665 VHL 4.546 DLA -2.70 RAL 2.15 RAD 6567.8 VEL 11.918 PTH 2.12 VHP 4.606 DPA 41.78 RAP 25.53 ECC 1.3401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 19 2138.57 -17.65 36.73 223.37 112.50 2 38 57 1538.6 -14.45 29.51
 90.00 13 21 20 4949.84 21.67 216.30 224.66 71.32 14 43 50 4349.8 18.92 208.70
 100.00 3 23 24 1880.23 -18.69 17.26 222.90 113.76 3 54 44 1280.2 -15.32 10.09
 100.00 14 43 56 4683.41 22.74 196.30 224.25 70.05 16 1 59 4083.4 19.81 188.73
 110.00 4 28 45 1675.63 -21.46 .33 221.50 117.27 4 56 41 1075.6 -17.64 353.28
 110.00 15 55 4 4460.78 25.59 178.16 223.01 66.52 17 9 24 3860.8 22.19 170.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0970 TRA -.2793 TC3 .5187 BAU .2861 SGT 601.3 SGR 908.6 SG3 345.6 ST 162.2 SR 162.5 SS 488.6
 RDE -.0884 RRA .3058 RC3 .8964 FAU .09647 RRT .4796 RRF -.8992 RTF -.5069 CRT .0655 CRS -.4639 CST -.8843
 FDE -.9374 FRA -.8308 FC3-4.0417 BSP 2967 SGB 1089.5 R23 -.1165 R13 -.8958 LSA 514.9 MSA 158.1 SSA 36.2
 BDE .1312 BRA .4141 BC3 1.0357 FSP -1032 SG1 971.3 SG2 493.5 THA 65.76 EL1 167.6 EL2 157.0 ALF 45.74

LAUNCH DATE FEB 17 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 263.766

RL 147.84 LAL .00 LOL 148.16 VL 27.937 GAL -7.10 AZL 90.78 HCA 119.68 SMA 130.76 ECC .17909 INC .7757 V1 30.137
 RP 108.74 LAP -.67 LOP 267.84 VP 37.761 GAP -3.55 AZP 89.62 TAL 216.55 TAP 336.22 RCA 107.34 APO 154.18 V2 34.848
 RC 73.792 GL -4.76 GP 33.21 ZAL 147.32 ZAP 55.84 ETS 336.81 ZAE 142.76 ETE 56.00 ZAC 115.79 ETC 143.21 CLP -47.84

PLANETOCENTRIC CONIC

C3 20.491 VHL 4.527 CLA -4.15 RAL 2.38 RAD 6567.8 VEL 11.911 PTH 2.12 VHP 4.454 OPA 43.30 RAP 22.71 ECC 1.3372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 7 2091.21 -16.40 33.82 223.22 113.41 2 49 59 1491.2 -13.09 26.70
 90.00 13 11 23 4993.18 22.59 219.14 225.19 72.46 14 34 36 4393.2 19.98 211.44
 100.00 3 34 31 1835.09 -17.43 14.50 222.74 114.68 4 5 6 1235.1 -13.96 7.43
 100.00 14 34 40 4724.53 23.67 199.00 224.80 71.19 15 53 25 4124.5 20.88 191.32
 110.00 4 38 18 1635.41 -20.19 357.90 221.29 118.19 5 5 33 1035.4 -16.26 350.98
 110.00 15 47 23 4496.97 26.55 180.53 223.61 67.63 17 2 20 3897.0 23.28 172.90

DIFFERENTIAL CORRECTIONS

TDE -.1036 TRA -.3007 TC3 .4327 BAU .3012
 RDE -.0399 RRA .3206 RC3 1.0109 FAU .10186
 FDE -1.0854 FRA -.8652 FC3 -4.3034 BSP 3145
 BDE .1110 BRA .4396 BC3 1.0996 FSP -1113

MID-COURSE EXECUTION ACCURACY

SGT 562.3 SGR 1002.9 SG3 369.3
 RRT .3721 RRF -.9198 RTF -.3857
 SGB 1149.8 R23 -.0793 R13 -.9176
 SG1 1031.8 SG2 507.3 THA 74.33

ORBIT DETERMINATION ACCURACY

ST 174.4 SR 134.9 SS 545.5
 CRT -.2989 CRS -.1355 CST -.8753
 LSA 567.1 MSA 152.9 SSA 34.8
 EL1 183.4 EL2 122.5 ALF 155.50

LAUNCH DATE FEB 17 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 270.241

RL 147.84 LAL .00 LOL 148.16 VL 27.968 GAL -7.07 AZL 91.02 HCA 122.84 SMA 130.98 ECC .17734 INC 1.0200 V1 30.137
 RP 108.77 LAP -.86 LOP 271.01 VP 37.776 GAP -3.02 AZP 89.45 TAL 216.87 TAP 339.72 RCA 107.76 APO 154.21 V2 34.839
 RC 76.053 GL -6.29 GP 35.62 ZAL 147.34 ZAP 60.41 ETS 339.21 ZAE 141.87 ETE 62.17 ZAC 113.25 ETC 143.66 CLP -52.60

PLANETOCENTRIC CONIC

C3 20.359 VHL 4.512 CLA -5.66 RAL 2.76 RAD 6567.8 VEL 11.905 PTH 2.12 VHP 4.336 OPA 44.75 RAP 19.49 ECC 1.3351
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 0 2042.49 -15.06 30.87 223.30 114.27 3 2 3 1442.5 -11.65 23.85
 90.00 13 1 32 5038.80 23.49 222.18 225.95 73.72 14 25 31 4438.8 21.04 214.37
 100.00 3 46 40 1788.71 -16.09 11.71 222.80 115.54 4 16 29 1188.7 -12.52 4.74
 100.00 14 25 33 4767.81 24.59 201.89 225.59 72.44 15 45 1 4167.8 21.95 194.08
 110.00 4 48 47 1594.23 -18.84 355.46 221.31 119.06 5 15 22 994.2 -14.82 348.65
 110.00 15 39 56 4535.06 27.51 183.08 224.44 68.86 16 55 31 3935.1 24.39 175.30

DIFFERENTIAL CORRECTIONS

TDE -.1180 TRA -.3272 TC3 .3257 BAU .3199
 RDE .0151 RRA .3330 RC3 1.1292 FAU .10622
 FDE -1.2360 FRA -.8794 FC3 -4.5169 BSP 3379
 BDE .1190 BRA .4669 BC3 1.1753 FSP -1183

MID-COURSE EXECUTION ACCURACY

SGT 532.2 SGR 1104.2 SG3 389.6
 RRT .2029 RRF -.9359 RTF -.2060
 SGB 1225.8 R23 -.0383 R13 -.9353
 SG1 1111.0 SG2 518.0 THA 82.85

ORBIT DETERMINATION ACCURACY

ST 195.5 SR 132.5 SS 603.1
 CRT -.7172 CRS .3603 CST -.8779
 LSA 629.8 MSA 147.3 SSA 33.2
 EL1 221.7 EL2 81.4 ALF 149.55

LAUNCH DATE FEB 17 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 276.686

RL 147.84 LAL .00 LOL 148.16 VL 27.991 GAL -7.03 AZL 91.28 HCA 126.01 SMA 131.16 ECC .17583 INC 1.2822 V1 30.137
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.786 GAP -2.51 AZP 89.25 TAL 217.08 TAP 343.09 RCA 108.09 APO 154.22 V2 34.831
 RC 78.340 GL -7.94 GP 38.08 ZAL 147.16 ZAP 65.04 ETS 341.83 ZAE 140.65 ETE 68.52 ZAC 110.56 ETC 144.36 CLP -57.59

PLANETOCENTRIC CONIC

C3 20.271 VHL 4.502 CLA -7.22 RAL 3.30 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 4.255 OPA 46.13 RAP 15.91 ECC 1.3336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 10 1991.78 -13.61 27.84 223.61 115.07 3 15 22 1391.8 -10.12 20.90
 90.00 12 51 39 5087.44 24.38 225.47 226.96 75.14 14 16 26 4487.4 22.11 217.54
 100.00 4 0 3 1740.53 -14.66 8.85 223.10 116.35 4 29 3 1140.5 -11.00 1.97
 100.00 14 16 27 4813.92 25.50 205.01 226.62 73.84 15 36 41 4213.9 23.04 197.08
 110.00 5 0 23 1551.61 -17.42 352.98 221.56 119.89 5 26 15 951.6 -13.31 346.28
 110.00 15 32 36 4575.60 28.47 185.84 225.54 70.23 16 48 51 3975.6 25.52 177.91

DIFFERENTIAL CORRECTIONS

TDE -.1413 TRA -.3573 TC3 .1996 BAU .3428
 RDE .0777 RRA .3422 RC3 1.2492 FAU .10934
 FDE -1.3871 FRA -.8737 FC3 -4.6697 BSP 3691
 BDE .1612 BRA .4948 BC3 1.2651 FSP -1245

MID-COURSE EXECUTION ACCURACY

SGT 524.1 SGR 1211.6 SG3 405.7
 RRT -.0265 RRF -.9485 RTF .0306
 SGB 1320.1 R23 .0003 R13 -.9485
 SG1 1211.7 SG2 523.9 THA 90.81

ORBIT DETERMINATION ACCURACY

ST 226.4 SR 168.1 SS 662.3
 CRT -.9381 CRS .7367 CST -.8898
 LSA 705.0 MSA 142.0 SSA 31.2
 EL1 278.0 EL2 47.4 ALF 143.92

LAUNCH DATE FEB 17 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 283.101

RL 147.84 LAL .00 LOL 148.16 VL 28.008 GAL -6.98 AZL 91.57 HCA 129.17 SMA 131.28 ECC .17454 INC 1.5661 V1 30.137
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.791 GAP -2.02 AZP 89.01 TAL 217.17 TAP 346.34 RCA 108.36 APO 154.19 V2 34.824
 RC 80.651 GL -9.73 GP 40.57 ZAL 146.76 ZAP 69.67 ETS 344.73 ZAE 139.08 ETE 74.89 ZAC 107.78 ETC 145.31 CLP -62.79

PLANETOCENTRIC CONIC

C3 20.231 VHL 4.498 CLA -8.88 RAL 3.99 RAD 6567.8 VEL 11.900 PTH 2.11 VHP 4.212 OPA 47.41 RAP 12.03 ECC 1.3330
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 57 52 1938.30 -12.05 24.70 224.18 115.82 3 30 10 1338.3 -8.48 17.84
 90.00 12 41 29 5139.98 25.25 229.07 228.24 76.74 14 7 9 4540.0 23.18 221.02
 100.00 4 14 53 1689.83 -13.10 5.89 223.64 117.11 4 43 3 1089.8 -9.36 359.09
 100.00 14 7 9 4863.68 26.39 208.44 227.92 75.43 15 28 13 4263.7 24.13 200.37
 110.00 5 13 17 1506.99 -15.88 350.43 222.06 120.67 5 38 24 907.0 -11.70 343.83
 110.00 15 25 15 4619.28 29.44 188.87 226.91 71.79 16 42 15 4019.3 26.67 180.78

DIFFERENTIAL CORRECTIONS

TDE -.1769 TRA -.3917 TC3 .0516 BAU .3690
 RDE .1464 RRA .3452 RC3 1.3632 FAU .11061
 FDE -1.5274 FRA -.8392 FC3 -4.7333 BSP 4040
 BDE .2296 BRA .5221 BC3 1.3642 FSP -1282

MID-COURSE EXECUTION ACCURACY

SGT 554.9 SGR 1317.9 SG3 415.1
 RRT -.2869 RRF -.9580 RTF .2951
 SGB 1429.9 R23 .0334 R13 -.9576
 SG1 1329.3 SG2 527.0 THA 98.18

ORBIT DETERMINATION ACCURACY

ST 271.5 SR 232.3 SS 719.3
 CRT -.9861 CRS .8949 CST -.9081
 LSA 790.8 MSA 137.5 SSA 29.0
 EL1 356.1 EL2 29.4 ALF 139.51

LAUNCH DATE FEB 17 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 28.018 GAL -6.93 AZL 91.88 MCA 132.33 SMA 131.35 ECC .17343 INC 1.8767 V1 30.137
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.793 GAP -1.55 AZP 88.74 TAL 217.15 TAP 349.47 RCA 108.57 APO 154.13 V2 34.816
 RC 82.981 GL -11.68 GP 43.07 ZAL 146.13 ZAP 74.23 ETS 347.91 ZAE 137.16 ETE 81.15 ZAC 104.96 ETC 146.49 CLP -68.16

PLANETOCENTRIC CONIC
 C3 20.252 VHL 4.500 DLA -10.63 RAL 4.86 RAD 6567.8 VEL 11.901 PTH 2.11 VHP 4.208 DPA 48.58 RAP 7.92 ECC 1.3333
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 28 1881.12 -10.33 21.37 225.03 116.51 3 46 49 1281.1 -6.69 14.59
 90.00 12 30 49 5197.65 26.09 233.09 229.82 78.59 13 57 27 4597.6 24.25 224.90
 100.00 4 31 30 1635.80 -11.41 2.78 224.47 117.82 4 58 46 1035.8 -7.59 356.06
 100.00 13 57 28 4918.20 27.27 212.25 229.53 77.26 15 19 26 4318.2 25.24 204.04
 110.00 5 27 43 1459.75 -14.22 347.77 222.82 121.42 5 52 3 859.7 -9.96 341.27
 110.00 15 17 44 4667.02 30.41 192.25 228.60 73.58 16 35 31 4067.0 27.86 183.98

MID-COURSE EXECUTION ACCURACY
 SGT 631.5 SGR 1423.5 SG3 418.4
 RRT -.5126 RRF -.9654 RTF .5219
 SGB 1557.2 R23 .0596 R13 -.9641
 SG1 1465.5 SG2 526.7 THA 104.76

ORBIT DETERMINATION ACCURACY
 ST 331.5 SR 316.0 SS 776.6
 CRT -.9895 CRS .9550 CST -.9270
 LSA 891.1 MSA 134.1 SSA 26.5
 EL1 456.7 EL2 33.2 ALF 136.39

DIFFERENTIAL CORRECTIONS
 TDE -.2253 TRA -.4271 TC3 -.1126 BAU .3990
 RDE .2230 RRA .3422 RC3 1.4695 FAU .11018
 FDE -1.6577 FRA -.7823 FC3 -4.7099 BSP 4470
 BDE .3170 BRA .5473 BC3 1.4738 FSP -1305

LAUNCH DATE FEB 17 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 28.023 GAL -6.87 AZL 92.22 MCA 135.48 SMA 131.39 ECC .17247 INC 2.2201 V1 30.137
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.790 GAP -1.10 AZP 88.42 TAL 217.01 TAP 352.50 RCA 108.73 APO 154.05 V2 34.810
 RC 85.328 GL -13.82 GP 45.56 ZAL 145.26 ZAP 78.64 ETS 351.38 ZAE 134.92 ETE 87.15 ZAC 102.15 ETC 147.86 CLP -73.66

PLANETOCENTRIC CONIC
 C3 20.349 VHL 4.511 DLA -12.52 RAL 5.92 RAD 6567.8 VEL 11.905 PTH 2.12 VHP 4.244 DPA 49.64 RAP 3.64 ECC 1.3349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 35 25 1819.04 -8.42 17.81 226.21 117.13 4 5 44 1219.0 -4.72 11.09
 90.00 12 19 16 5262.02 26.88 237.64 231.74 80.74 13 46 58 4662.0 25.32 229.31
 100.00 4 50 20 1577.37 -9.53 359.45 225.62 118.47 5 16 37 977.4 -5.65 352.81
 100.00 13 47 3 4978.92 28.11 216.57 231.50 79.38 15 10 2 4378.9 26.36 208.21
 110.00 5 44 3 1409.11 -12.41 344.97 223.91 122.11 6 7 32 809.1 -8.08 338.55
 110.00 15 9 49 4719.94 31.37 196.07 230.67 75.66 16 28 29 4119.9 29.08 187.62

MID-COURSE EXECUTION ACCURACY
 SGT 753.7 SGR 1518.9 SG3 413.4
 RRT -.6730 RRF -.9710 RTF .6819
 SGB 1695.6 R23 .0810 R13 -.9683
 SG1 1612.2 SG2 525.2 THA 110.77

ORBIT DETERMINATION ACCURACY
 ST 410.7 SR 410.2 SS 829.5
 CRT -.9874 CRS .9791 CST -.9438
 LSA 1003.5 MSA 132.2 SSA 23.8
 EL1 578.6 EL2 46.1 ALF 135.04

DIFFERENTIAL CORRECTIONS
 TDE -.2903 TRA -.4630 TC3 -.2917 BAU .4310
 RDE .3049 RRA .3291 RC3 1.5572 FAU .10757
 FDE -1.7653 FRA -.6964 FC3 -4.5763 BSP 4916
 BDE .4210 BRA .5681 BC3 1.5843 FSP -1294

LAUNCH DATE FEB 17 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 28.022 GAL -6.79 AZL 92.60 MCA 138.64 SMA 131.38 ECC .17165 INC 2.6040 V1 30.137
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.784 GAP -.67 AZP 88.05 TAL 216.77 TAP 355.41 RCA 108.83 APO 153.93 V2 34.804
 RC 87.691 GL -16.19 GP 48.03 ZAL 144.10 ZAP 82.82 ETS 355.13 ZAE 132.39 ETE 92.83 ZAC 99.39 ETC 149.38 CLP -79.22

PLANETOCENTRIC CONIC
 C3 20.549 VHL 4.533 DLA -14.57 RAL 7.18 RAD 6567.8 VEL 11.913 PTH 2.12 VHP 4.324 DPA 50.63 RAP 359.27 ECC 1.3382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 24 1750.43 -6.27 13.92 227.79 117.67 4 27 35 1150.4 -2.52 7.25
 90.00 12 6 21 5335.30 27.57 242.89 234.06 83.28 13 35 17 4735.3 26.36 234.43
 100.00 5 11 56 1513.19 -7.43 355.85 227.16 119.04 5 37 9 913.2 -3.50 349.26
 100.00 13 35 31 5047.77 28.87 221.54 233.87 81.90 14 59 39 4447.8 27.45 213.03
 110.00 6 2 42 1354.17 -10.40 341.98 225.36 122.75 6 25 16 754.2 -6.01 335.64
 110.00 15 1 14 4779.56 32.29 200.48 233.17 78.11 16 20 53 4179.6 30.31 191.82

MID-COURSE EXECUTION ACCURACY
 SGT 910.2 SGR 1606.7 SG3 402.0
 RRT -.7747 RRF -.9754 RTF .7826
 SGB 1846.6 R23 .0974 R13 -.9715
 SG1 1771.3 SG2 522.1 THA 116.14

ORBIT DETERMINATION ACCURACY
 ST 510.2 SR 515.5 SS 881.8
 CRT -.9864 CRS .9899 CST -.9575
 LSA 1133.9 MSA 131.6 SSA 21.0
 EL1 722.9 EL2 59.8 ALF 134.70

DIFFERENTIAL CORRECTIONS
 TDE -.3732 TRA -.4955 TC3 -.4774 BAU .4654
 RDE .3950 RRA .3073 RC3 1.6253 FAU .10323
 FDE -1.8558 FRA -.5934 FC3 -4.3489 BSP 5429
 BDE .5434 BRA .5830 BC3 1.6939 FSP -1269

LAUNCH DATE FEB 17 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 28.017 GAL -6.71 AZL 93.04 MCA 141.79 SMA 131.34 ECC .17096 INC 3.0392 V1 30.137
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.776 GAP -.26 AZP 87.61 TAL 216.43 TAP 358.22 RCA 108.89 APO 153.80 V2 34.799
 RC 90.065 GL -18.83 GP 50.50 ZAL 142.63 ZAP 86.70 ETS 359.16 ZAE 129.62 ETE 98.12 ZAC 96.73 ETC 151.02 CLP -84.80

PLANETOCENTRIC CONIC
 C3 20.890 VHL 4.571 DLA -16.81 RAL 8.68 RAD 6567.8 VEL 11.928 PTH 2.12 VHP 4.451 DPA 51.58 RAP 354.86 ECC 1.3438
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 23 1672.98 -3.81 9.56 229.87 118.08 4 53 16 1073.0 -.02 2.93
 90.00 11 51 20 5420.63 28.10 249.07 236.84 86.34 13 21 40 4820.6 27.29 240.50
 100.00 5 37 9 1441.38 -5.03 351.86 229.20 119.50 6 1 11 841.4 -1.07 345.32
 100.00 13 22 14 5127.47 29.50 227.39 236.71 84.91 14 47 42 4527.5 28.48 218.73
 110.00 6 24 17 1293.73 -8.16 338.74 227.28 123.31 6 45 51 693.7 -3.72 332.47
 110.00 14 51 36 4847.88 33.13 205.63 236.19 81.05 16 12 24 4247.9 31.54 196.76

MID-COURSE EXECUTION ACCURACY
 SGT 1093.2 SGR 1677.0 SG3 382.9
 RRT -.8368 RRF -.9788 RTF .8440
 SGB 2001.9 R23 .1117 R13 -.9735
 SG1 1933.4 SG2 519.2 THA 121.10

ORBIT DETERMINATION ACCURACY
 ST 633.6 SR 626.0 SS 928.3
 CRT -.9867 CRS .9951 CST -.9680
 LSA 1279.5 MSA 132.6 SSA 18.1
 EL1 887.7 EL2 72.7 ALF 135.35

DIFFERENTIAL CORRECTIONS
 TDE -.4780 TRA -.5224 TC3 -.6637 BAU .4997
 RDE .4907 RRA .2725 RC3 1.6615 FAU .09693
 FDE -1.9179 FRA -.4694 FC3 -4.0168 BSP 5934
 BDE .6850 BRA .5892 BC3 1.7891 FSP -1211

LAUNCH DATE FEB 17 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 28.007 GAL -6.62 AZL 93.54 HCA 144.94 SMA 131.27 ECC .17036 INC 3.5395 V1 30.137
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.764 GAP .14 AZP 87.10 TAL 216.00 TAP .94 RCA 108.91 APO 153.64 V2 34.795
 RC 92.449 GL -21.78 GP 52.98 ZAL 140.81 ZAP 90.21 ETS 3.43 ZAE 126.65 ETE 103.01 ZAC 94.18 ETC 152.75 CLP -90.35

PLANETOCENTRIC CONIC

C3 21.431 VHL 4.629 DLA -19.28 RAL 10.45 RAD 6567.9 VEL 11.950 PTH 2.13 VHP 4.631 DPA 52.52 RAP 350.43 ECC 1.3527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 53 1582.94 -.91 4.53 232.62 118.30 5 24 16 982.9 2.88 357.90
 90.00 11 32 57 5522.95 28.32 256.55 240.13 90.08 13 5 0 4923.0 28.03 247.89
 100.00 6 7 16 1359.06 -2.26 347.32 231.87 119.81 6 29 55 759.1 1.72 340.80
 100.00 13 6 15 5222.08 29.86 234.39 240.11 88.58 14 33 17 4622.1 29.35 225.63
 110.00 6 49 39 1226.23 -5.62 335.17 229.78 123.77 7 10 5 626.2 -1.14 328.94
 110.00 14 40 21 4927.67 33.81 211.76 239.83 84.62 16 2 29 4327.7 32.69 202.70

DIFFERENTIAL CORRECTIONS

TDE -.6084 TRA -.5396 TC3 -.8396 BAU .5338
 RDE .5943 RRA .2254 RC3 1.6631 FAU .08917
 FDE -1.9567 FRA -.3357 FC3 -3.6023 BSP 6457
 BDE .8505 BRA .5848 BC3 1.8630 FSP -1135

MID-COURSE EXECUTION ACCURACY

SGT 1293.0 SGR 1731.9 SG3 358.1
 RRT -.8752 RRF -.9816 RTF .8821
 SGB 2161.3 R23 .1238 R13 -.9749
 SG1 2098.8 SG2 516.1 THA 125.64

ORBIT DETERMINATION ACCURACY

ST 782.7 SR 742.3 SS 971.1
 CRT -.9875 CRS .9976 CST -.9758
 LSA 1445.1 MSA 134.8 SSA 15.3
 EL1 1075.4 EL2 85.0 ALF 136.54

LAUNCH DATE FEB 17 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.994 GAL -6.53 AZL 94.12 HCA 148.09 SMA 131.17 ECC .16986 INC 4.1249 V1 30.137
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.751 GAP .52 AZP 86.50 TAL 215.48 TAP 3.56 RCA 108.89 APO 153.45 V2 34.791
 RC 94.840 GL -25.09 GP 55.51 ZAL 138.59 ZAP 93.30 ETS 7.95 ZAE 123.49 ETE 107.53 ZAC 91.75 ETC 154.54 CLP -95.83

PLANETOCENTRIC CONIC

C3 22.262 VHL 4.718 DLA -22.02 RAL 12.54 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 4.872 DPA 53.51 RAP 345.94 ECC 1.3664
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 44 1473.18 2.63 358.41 236.28 118.20 6 3 18 873.2 6.38 351.74
 90.00 11 8 48 5651.10 27.95 265.90 243.96 94.75 12 42 59 5051.1 28.31 257.25
 100.00 6 44 25 1261.20 1.06 341.95 235.40 119.88 7 5 26 661.2 5.03 335.41
 100.00 12 45 49 5338.31 29.74 243.03 244.10 93.12 14 14 47 4738.3 29.86 234.23
 110.00 7 20 6 1149.35 -2.70 331.13 233.06 124.09 7 39 15 549.3 1.80 324.93
 110.00 14 26 37 5022.93 34.17 219.17 244.20 88.99 15 50 20 4422.9 33.65 209.97

DIFFERENTIAL CORRECTIONS

TDE -.7706 TRA -.5432 TC3 -.9936 BAU .5672
 RDE .7083 RRA .1661 RC3 1.6264 FAU .08040
 FDE -1.9742 FRA -.2008 FC3 -3.1267 BSP 7017
 BDE 1.0466 BRA .5680 BC3 1.9059 FSP -1050

MID-COURSE EXECUTION ACCURACY

SGT 1503.6 SGR 1772.7 SG3 329.3
 RRT -.8998 RRF -.9840 RTF .9070
 SGB 2324.5 R23 .1338 R13 -.9761
 SG1 2267.2 SG2 512.8 THA 129.79

ORBIT DETERMINATION ACCURACY

ST 960.2 SR 863.8 SS 1010.4
 CRT -.9887 CRS .9989 CST -.9817
 LSA 1633.9 MSA 137.7 SSA 12.8
 EL1 1287.9 EL2 96.5 ALF 138.06

LAUNCH DATE FEB 17 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.976 GAL -6.42 AZL 94.82 HCA 151.23 SMA 131.05 ECC .16945 INC 4.8234 V1 30.137
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.735 GAP .88 AZP 85.77 TAL 214.87 TAP 6.10 RCA 108.84 APO 153.25 V2 34.788
 RC 97.236 GL -28.81 GP 58.17 ZAL 135.93 ZAP 95.90 ETS 12.73 ZAE 120.15 ETE 111.72 ZAC 89.43 ETC 156.40 CLP -101.24

PLANETOCENTRIC CONIC

C3 23.526 VHL 4.850 DLA -25.05 RAL 15.03 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 5.189 DPA 54.58 RAP 341.31 ECC 1.3872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 42 1325.01 7.35 350.07 241.35 117.42 6 56 47 725.0 10.97 343.26
 90.00 10 32 42 5826.16 26.33 278.44 248.19 100.83 12 9 48 5226.2 27.55 269.99
 100.00 7 33 2 1136.65 5.26 335.10 240.21 119.47 7 51 59 536.6 9.15 328.47
 100.00 12 17 2 5489.76 28.66 254.15 248.64 98.87 13 48 32 4889.8 29.59 245.47
 110.00 7 57 45 1059.12 .75 326.43 237.41 124.18 8 15 24 459.1 5.23 320.20
 110.00 14 8 49 5140.05 33.93 228.30 249.36 94.39 15 34 29 4540.0 34.17 219.07

DIFFERENTIAL CORRECTIONS

TDE -.9739 TRA -.5281 TC3 -1.1127 BAU .5984
 RDE .8334 RRA .0916 RC3 1.5434 FAU .07080
 FDE -1.9692 FRA -.0673 FC3 -2.6055 BSP 7586
 BDE 1.2818 BRA .5360 BC3 1.9027 FSP -952

MID-COURSE EXECUTION ACCURACY

SGT 1721.3 SGR 1795.8 SG3 296.9
 RRT -.9158 RRF -.9860 RTF .9239
 SGB 2487.5 R23 .1423 R13 -.9771
 SG1 2434.7 SG2 509.9 THA 133.67

ORBIT DETERMINATION ACCURACY

ST 1169.2 SR 986.1 SS 1043.5
 CRT -.9898 CRS .9996 CST -.9862
 LSA 1846.1 MSA 141.3 SSA 10.4
 EL1 1525.8 EL2 107.2 ALF 139.91

LAUNCH DATE FEB 17 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.956 GAL -6.30 AZL 95.68 HCA 154.37 SMA 130.90 ECC .16910 INC 5.6767 V1 30.137
 RP 108.94 LAP -2.45 LOP 302.63 VP 37.718 GAP 1.23 AZP 84.88 TAL 214.18 TAP 8.54 RCA 108.76 APO 153.03 V2 34.786
 RC 99.636 GL -33.00 GP 61.00 ZAL 132.76 ZAP 97.97 ETS 17.80 ZAE 116.62 ETE 115.69 ZAC 87.19 ETC 158.40 CLP -106.61

PLANETOCENTRIC CONIC

C3 25.464 VHL 5.046 DLA -28.41 RAL 18.01 RAD 6568.0 VEL 12.118 PTH 2.17 VHP 5.604 DPA 55.77 RAP 336.39 ECC 1.4191
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.58 8 25 9 1017.16 18.22 332.82 250.50 112.18 8 42 7 417.2 21.07 325.30
 92.42 9 5 59 884.85 18.24 323.14 250.51 112.17 9 20 44 284.9 21.09 315.62
 100.00 8 48 3 942.87 11.60 324.20 247.31 117.74 9 3 46 342.9 15.22 317.29
 100.00 11 25 47 5722.41 25.12 270.50 253.12 106.76 13 1 9 5122.4 27.18 262.31
 110.00 8 46 45 946.92 5.03 320.56 243.36 123.86 9 2 32 346.9 9.44 314.25
 110.00 13 43 34 5291.13 32.54 239.86 255.22 101.09 15 11 45 4691.1 33.73 230.83

DIFFERENTIAL CORRECTIONS

TDE -1.2313 TRA -.4862 TC3 -1.1807 BAU .6248
 RDE .9685 RRA -.0027 RC3 1.4053 FAU .06054
 FDE -1.9384 FRA .0638 FC3 -2.0583 BSP 8094
 BDE 1.5666 BRA .4862 BC3 1.8354 FSP -837

MID-COURSE EXECUTION ACCURACY

SGT 1941.3 SGR 1794.6 SG3 261.6
 RRT -.9258 RRF -.9877 RTF .9359
 SGB 2643.7 R23 .1501 R13 -.9779
 SG1 2594.5 SG2 507.7 THA 137.43

ORBIT DETERMINATION ACCURACY

ST 1411.2 SR 1100.5 SS 1066.2
 CRT -.9908 CRS .9999 CST -.9895
 LSA 2078.0 MSA 145.4 SSA 8.4
 EL1 1785.7 EL2 117.4 ALF 142.11

LAUNCH DATE FEB 17 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 339.548

RL 147.84 LAL .00 LOL 148.16 VL 27.932 GAL -6.18 AZL 96.75 HCA 157.50 SMA 130.73 ECC .16882 INC 6.7499 V1 30.137
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.699 GAP 1.57 AZP 83.76 TAL 213.41 TAP 10.91 RCA 108.66 APO 152.80 V2 34.784
 RC 102.038 GL -37.70 GP 64.10 ZAL 129.03 ZAP 99.45 ETS 23.27 ZAE 112.85 ETE 119.61 ZAC 84.98 ETC 160.66 CLP-112.08

PLANETOCENTRIC CONIC

C3 28.495 VHL 5.338 CLA -32.09 RAL 21.60 RAD 6568.1 VEL 12.242 PTH 2.20 VHP 6.155 DPA 57.06 RAP 330.95 ECC 1.4690
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.24 6 57 8 1372.22 19.61 359.85 256.95 115.92 7 20 0 772.2 22.94 352.46
 105.76 11 2 41 5873.69 19.63 279.50 256.96 115.91 12 40 35 5273.7 22.95 272.10
 74.24 6 57 8 1372.22 19.61 359.85 256.95 115.92 7 20 0 772.2 22.94 352.46
 105.76 11 2 41 5873.69 19.63 279.50 256.96 115.91 12 40 35 5273.7 22.95 272.10
 110.00 9 59 21 782.00 11.19 311.76 252.07 122.51 10 12 23 182.0 15.40 305.18
 110.00 12 59 38 5511.91 28.52 255.78 261.05 109.69 14 31 30 4911.9 30.93 247.41

DIFFERENTIAL CORRECTIONS

TDE-1.5662 TRA -4.070 TC3-1.1833 BAU .6456
 RDE 1.1153 RRA -1.179 RC3 1.2133 FAU .05015
 FDE-1.8878 FRA .1833 FC3-1.5235 BSP .8597
 BDE 1.9227 BRA .4237 BC3 1.6947 FSP -719

MID-COURSE EXECUTION ACCURACY

SGT 2165.1 SGR 1770.1 SG3 225.4
 RRT -.9320 RRF -.9891 RTF .9457
 SGB 2796.6 R23 .1555 R13 -.9790
 SGT 2750.6 SG2 505.1 THA 141.14

ORBIT DETERMINATION ACCURACY

ST 1688.6 SR 1198.1 SS 1078.6
 CRT -.9916 CRS 1.01 J CST -.9921
 LSA 2330.0 MSA 149.1 SSA 6.6
 EL1 2066.8 EL2 126.5 ALF 144.71

LAUNCH DATE FEB 17 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 345.676

RL 147.84 LAL .00 LOL 148.16 VL 27.906 GAL -6.04 AZL 98.15 HCA 160.62 SMA 130.54 ECC .16860 INC 8.1488 V1 30.137
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.679 GAP 1.89 AZP 82.31 TAL 212.56 TAP 13.18 RCA 108.53 APO 152.55 V2 34.783
 RC 104.441 GL -42.89 GP 67.55 ZAL 124.72 ZAP 100.30 ETS 29.38 ZAE 108.79 ETE 123.80 ZAC 82.71 ETC 163.47 CLP-117.92

PLANETOCENTRIC CONIC

C3 33.410 VHL 5.780 CLA -36.03 RAL 25.98 RAD 6568.3 VEL 12.441 PTH 2.25 VHP 6.905 DPA 58.40 RAP 324.66 ECC 1.5498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.74 6 29 2 1551.47 20.46 14.29 265.09 120.32 6 54 53 951.5 24.33 7.13
 113.26 12 5 45 5774.35 20.48 272.25 265.10 120.31 13 41 59 5174.4 24.34 265.09
 66.74 6 29 2 1551.47 20.46 14.29 265.09 120.32 6 54 53 951.5 24.33 7.13
 113.26 12 5 45 5774.35 20.48 272.25 265.10 120.31 13 41 59 5174.4 24.34 265.09
 66.74 6 29 2 1551.47 20.46 14.29 265.09 120.32 6 54 53 951.5 24.33 7.13
 113.26 12 5 45 5774.35 20.48 272.25 265.10 120.31 13 41 59 5174.4 24.34 265.09

DIFFERENTIAL CORRECTIONS

TDE-2.0170 TRA -2.720 TC3-1.1089 BAU .6584
 RDE 1.2664 RRA -.2568 RC3 .9712 FAU .04000
 FDE-1.8210 FRA .2869 FC3-1.0366 BSP 9128
 BDE 2.3816 BRA .3741 BC3 1.4741 FSP -606

MID-COURSE EXECUTION ACCURACY

SGT 2398.4 SGR 1713.2 SG3 189.6
 RRT -.9355 RRF -.9897 RTF .9551
 SGB 2947.4 R23 .1564 R13 -.9808
 SGT 2904.8 SG2 499.7 THA 145.06

ORBIT DETERMINATION ACCURACY

ST 2002.3 SR 1259.3 SS 1078.9
 CRT -.9922 CRS .9998 CST -.9941
 LSA 2595.4 MSA 151.3 SSA 5.1
 EL1 2361.6 EL2 133.4 ALF 147.92

LAUNCH DATE FEB 17 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 351.767

RL 147.84 LAL .00 LOL 148.16 VL 27.878 GAL -5.89 AZL 100.06 HCA 163.73 SMA 130.34 ECC .16842 INC10.0594 V1 30.137
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.658 GAP 2.20 AZP 80.34 TAL 211.64 TAP 15.36 RCA 108.39 APO 152.29 V2 34.783
 RC 106.844 GL -48.50 GP 71.44 ZAL 119.83 ZAP 100.48 ETS 36.69 ZAE 104.31 ETE 128.94 ZAC 80.26 ETC 167.48 CLP-124.85

PLANETOCENTRIC CONIC

C3 41.825 VHL 6.467 CLA -40.06 RAL 31.37 RAD 6568.6 VEL 12.775 PTH 2.32 VHP 7.965 DPA 59.65 RAP 317.05 ECC 1.6883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.39 6 18 45 1700.40 20.29 26.42 275.26 125.31 6 47 6 1100.4 24.76 19.65
 119.61 12 59 0 5738.89 20.31 269.22 275.28 125.30 14 34 39 5138.9 24.78 262.45
 60.39 6 18 45 1700.40 20.29 26.42 275.26 125.31 6 47 6 1100.4 24.76 19.65
 119.61 12 59 0 5738.89 20.31 269.22 275.28 125.30 14 34 39 5138.9 24.78 262.45
 60.39 6 18 45 1700.40 20.29 26.42 275.26 125.31 6 47 6 1100.4 24.76 19.65
 119.61 12 59 0 5738.89 20.31 269.22 275.28 125.30 14 34 39 5138.9 24.78 262.45

DIFFERENTIAL CORRECTIONS

TDE-2.6487 TRA -.0405 TC3 -.9485 BAU .6539
 RDE 1.3803 RRA -.4249 RC3 .6841 FAU .03016
 FDE-1.7368 FRA .3791 FC3 -.6242 BSP 9568
 BDE 2.9867 BRA .4269 BC3 1.1695 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 2648.3 SGR 1587.5 SG3 154.8
 RRT -.9352 RRF -.9883 RTF .9551
 SGB 3087.7 R23 .1518 R13 -.9833
 SGT 3048.9 SG2 488.2 THA 149.87

ORBIT DETERMINATION ACCURACY

ST 2346.9 SR 1232.0 SS 1063.0
 CRT -.9920 CRS .9994 CST -.9958
 LSA 2851.8 MSA 151.3 SSA 3.8
 EL1 2647.0 EL2 137.5 ALF 152.41

LAUNCH DATE FEB 17 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 357.813

RL 147.84 LAL .00 LOL 148.16 VL 27.847 GAL -5.73 AZL 102.84 HCA 166.81 SMA 130.12 ECC .16827 INC12.8384 V1 30.137
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.635 GAP 2.49 AZP 77.49 TAL 210.63 TAP 17.44 RCA 108.22 APO 152.01 V2 34.784
 RC 109.246 GL -54.31 GP 75.83 ZAL 114.43 ZAP 99.95 ETS 46.76 ZAE 99.22 ETE 136.69 ZAC 77.44 ETC 174.34 CLP-134.91

PLANETOCENTRIC CONIC

C3 57.467 VHL 7.581 CLA -43.85 RAL 37.98 RAD 6569.0 VEL 13.373 PTH 2.44 VHP 9.555 DPA 60.51 RAP 307.58 ECC 1.9458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.00 6 22 14 1842.33 18.47 37.30 287.61 130.51 6 52 57 1242.3 23.55 31.09
 125.00 13 48 15 5755.42 18.49 269.16 287.63 130.50 15 24 10 5155.4 23.56 262.95
 55.00 6 22 14 1842.33 18.47 37.30 287.61 130.51 6 52 57 1242.3 23.55 31.09
 125.00 13 48 15 5755.42 18.49 269.16 287.63 130.50 15 24 10 5155.4 23.56 262.95
 55.00 6 22 14 1842.33 18.47 37.30 287.61 130.51 6 52 57 1242.3 23.55 31.09
 125.00 13 48 15 5755.42 18.49 269.16 287.63 130.50 15 24 10 5155.4 23.56 262.95

DIFFERENTIAL CORRECTIONS

TDE-3.5909 TRA .3683 TC3 -.7130 BAU .6209
 RDE 1.3118 RRA -.5965 RC3 .3804 FAU .02105
 FDE-1.6500 FRA .4601 FC3 -.3171 BSP 10068
 BDE 3.8230 BRA .7010 BC3 .8081 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 2946.8 SGR 1306.3 SG3 122.8
 RRT -.9237 RRF -.9780 RTF .9769
 SGB 3223.4 R23 .1375 R13 -.9871
 SGT 3190.0 SG2 462.3 THA 157.23

ORBIT DETERMINATION ACCURACY

ST 2716.7 SR 1009.2 SS 1036.5
 CRT -.9896 CRS .9974 CST -.9973
 LSA 3074.4 MSA 146.6 SSA 2.9
 EL1 2894.9 EL2 136.3 ALF 159.77

LAUNCH DATE FEB 17 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 363.790

RL 147.84 LAL .00 LOL 148.16 VL 27.814 GAL -5.54 AZL 107.26 MCA 169.84 SMA 129.89 ECC .16810 INC17.2567 V1 30.137
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.612 GAP 2.76 AZP 73.00 TAL 209.53 TAP 19.37 RCA 108.05 APO 151.72 V2 34.785
 RC 111.645 GL -59.75 GP 80.45 ZAL 108.67 ZAP 98.71 ETS 64.58 ZAE 93.13 ETE 152.17 ZAC 73.86 ETC 189.24 CLP-155.89

PLANETOCENTRIC CONIC

C3 90.381 VHL 9.507 DLA -46.74 RAL 45.87 RAD 6569.8 VEL 14.551 PTH 2.64 VHP 12.147 DPA 60.34 RAP 295.72 ECC 2.4875
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.12 6 39 10 1986.12 14.42 46.69 301.85 134.96 7 12 16 1386.1 19.99 41.10
 128.88 14 34 17 5823.80 14.43 271.57 301.87 134.96 16 11 20 5223.8 20.00 265.98
 51.12 6 39 10 1986.12 14.42 46.69 301.85 134.96 7 12 16 1386.1 19.99 41.10
 128.88 14 34 17 5823.80 14.43 271.57 301.87 134.96 16 11 20 5223.8 20.00 265.98
 51.12 6 39 10 1986.12 14.42 46.69 301.85 134.96 7 12 16 1386.1 19.99 41.10
 128.88 14 34 17 5823.80 14.43 271.57 301.87 134.96 16 11 20 5223.8 20.00 265.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-5.0144 TRA 1.1681 TC3 -.4135 BAU .5147 SGT 3287.3 SGR 589.6 SG3 94.5 ST 3037.8 SR 266.4 SS 1012.2
 ROE .3609 RRA -.5824 RC3 .1025 FAU .01235 RRT -.6897 RRF -.7758 RTF .9896 CRT -.8710 CRS .8945 CST -.9987
 FDE-1.5819 FRA .5527 FC3 -.1183 BSP 10384 SGB 3339.8 R23 .1128 R13 -.9915 LSA 3210.1 MSA 138.0 SSA 2.1
 BDE 5.0273 BRA 1.3053 BC3 .4260 FSP -297 SG1 3312.8 SG2 423.7 THA 172.83 EL1 3046.7 EL2 130.5 ALF 175.62

LAUNCH DATE FEB 17 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 369.635

RL 147.84 LAL .00 LOL 148.16 VL 27.780 GAL -5.33 AZL 115.29 MCA 172.77 SMA 129.64 ECC .16780 INC25.2869 V1 30.137
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.589 GAP 2.98 AZP 64.89 TAL 208.28 TAP 21.05 RCA 107.89 APO 151.40 V2 34.787
 RC 114.042 GL -63.43 GP 82.08 ZAL 102.85 ZAP 96.78 ETS 105.26 ZAE 85.11 ETE 190.60 ZAC 68.64 ETC 227.65 CLP 148.96

PLANETOCENTRIC CONIC

C3 174.493 VHL 13.210 DLA -47.40 RAL 54.44 RAD 6570.9 VEL 17.199 PTH 2.94 VHP 16.931 DPA 57.79 RAP 281.41 ECC 3.8717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.25 7 10 19 2122.10 8.26 53.22 316.75 136.85 7 45 41 1522.1 14.05 48.00
 129.75 15 11 32 656.43 8.28 298.73 316.77 136.84 15 22 28 56.4 14.07 293.51
 50.25 7 10 19 2122.10 8.26 53.22 316.75 136.85 7 45 41 1522.1 14.05 48.00
 129.75 15 11 32 656.43 8.28 298.73 316.77 136.84 15 22 28 56.4 14.07 293.51
 50.25 7 10 19 2122.10 8.26 53.22 316.75 136.85 7 45 41 1522.1 14.05 48.00
 129.75 15 11 32 656.43 8.28 298.73 316.77 136.84 15 22 28 56.4 14.07 293.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-5.2551 TRA 2.3860 TC3 -.0954 BAU .2238 SGT 2756.2 SGR 2032.9 SG3 72.1 ST 2325.1 SR 1965.6 SS 1039.9
 ROE-4.5162 RRA .8475 RC3 -.0103 FAU .00293 RRT .9463 RRF .9525 RTF .9989 CRT .9933 CRS -.9939 CST -1.0000
 FDE-1.6084 FRA .7105 FC3 -.0145 BSP 10712 SGB 3424.8 R23 -.0915 R13 .9949 LSA 3212.3 MSA 178.5 SSA 1.4
 BDE 6.9291 BRA 2.5320 BC3 .0959 FSP -228 SG1 3382.7 SG2 535.6 THA 35.96 EL1 3039.7 EL2 173.5 ALF 40.18

LAUNCH DATE FEB 17 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 375.128

RL 147.84 LAL .00 LOL 148.16 VL 27.744 GAL -5.04 AZL 133.09 MCA 175.38 SMA 129.39 ECC .16700 INC43.0911 V1 30.137
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.565 GAP 3.11 AZP 47.00 TAL 206.70 TAP 22.07 RCA 107.78 APO 151.00 V2 34.790
 RC 116.435 GL -61.30 GP 72.62 ZAL 97.46 ZAP 94.38 ETS 154.43 ZAE 72.28 ETE 237.56 ZAC 59.12 ETC 276.47 CLP 104.81

PLANETOCENTRIC CONIC

C3 463.335 VHL 21.525 DLA -42.51 RAL 61.28 RAD 6572.3 VEL 24.179 PTH 3.32 VHP 27.426 DPA 49.40 RAP 265.68 ECC 8.6253
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.87 8 2 46 2178.55 1.99 52.18 329.09 132.47 8 39 4 1578.5 7.37 46.65
 123.13 15 13 40 844.13 2.01 309.75 329.11 132.47 15 27 44 244.1 7.39 304.22
 56.87 8 2 46 2178.55 1.99 52.18 329.09 132.47 8 39 4 1578.5 7.37 46.65
 123.13 15 13 40 844.13 2.01 309.75 329.11 132.47 15 27 44 244.1 7.39 304.22
 56.87 8 2 46 2178.55 1.99 52.18 329.09 132.47 8 39 4 1578.5 7.37 46.65
 123.13 15 13 40 844.13 2.01 309.75 329.11 132.47 15 27 44 244.1 7.39 304.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8464 TRA 1.8105 TC3 -.0169 BAU .9261 SGT 695.3 SGR 3317.9 SG3 57.4 ST 298.7 SR 2754.7 SS 1236.4
 RO-10.1435 RRA 5.0386 RC3 .1486 FAU-.0151 RRT .2317 RRF .9961 RTF .3160 CRT -.6092 CRS -.9992 CST .5775
 FDE-1.9045 FRA 1.1395 FC3 .0282 BSP 10504 SGB 3390.0 R23 -.0773 R13 .9970 LSA 3024.5 MSA 241.7 SSA .5
 BDE10.1787 BRA 5.3540 BC3 .1495 FSP -182 SG1 3322.0 SG2 675.5 THA 87.10 EL1 2760.7 EL2 236.3 ALF 93.81

LAUNCH DATE FEB 17 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 379.323

RL 147.84 LAL .00 LOL 148.16 VL 27.706 GAL -4.48 AZL 176.24 MCA 176.77 SMA 129.13 ECC .16424 INC86.2362 V1 30.137
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.541 GAP 2.88 AZP 3.77 TAL 203.94 TAP 20.71 RCA 107.92 APO 150.34 V2 34.794
 RC 118.823 GL -44.11 GP 48.54 ZAL 93.65 ZAP 92.24 ETS 172.43 ZAE 47.75 ETE 251.79 ZAC 39.62 ETC 303.21 CLP 93.39

PLANETOCENTRIC CONIC

C31568.171 VHL 39.600 DLA -24.22 RAL 61.77 RAD 6573.2 VEL 41.103 PTH 3.57 VHP 49.975 DPA 27.41 RAP 252.03 ECC26.8081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 26 52 2020.50 -14.44 29.55 326.90 114.63 10 0 32 1420.5 -10.99 22.57
 90.00 13 53 25 1134.96 13.12 339.09 339.55 115.32 14 12 20 535.0 16.42 331.97
 100.00 10 27 51 1823.66 -17.10 13.81 325.62 114.89 10 58 14 1223.7 -13.61 6.77
 100.00 15 35 7 807.04 15.77 316.27 340.86 115.73 15 48 34 207.0 19.10 309.07
 110.00 10 56 9 1734.89 -23.26 3.98 322.51 115.78 11 25 4 1134.9 -19.60 356.75
 110.00 17 23 18 5756.61 21.88 271.67 344.05 116.95 18 59 15 5156.6 25.31 264.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 5.4060 TRA -.0513 TC3 -.0803 BAU 4.3049 SGT 1007.9 SGR 2652.9 SG3 51.4 ST 782.4 SR 1611.2 SS 1534.9
 RO-10.6535 RRA 9.8076 RC3 .1890 FAU-.07482 RRT -.8115 RRF .9995 RTF -.7933 CRT -.9580 CRS -.9998 CST .9527
 FDE-2.3374 FRA 2.2918 FC3 .0413 BSP 8619 SGB 2837.9 R23 -.0955 R13 .9954 LSA 2348.6 MSA 219.5 SSA .6
 BDE11.9467 BRA 9.8077 BC3 .2053 FSP -164 SG1 2781.8 SG2 561.7 THA 107.89 EL1 1779.5 EL2 203.1 ALF 115.30

1777A

LAUNCH DATE FEB 17 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.668 GAL -5.24 AZL 42.03 HCA 184.41 SMA 128.86 ECC .17278 INC47.9705 V1 30.137
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.516 GAP 4.44 AZP 137.89 TAL 206.68 TAP 31.09 RCA 106.60 APO 151.13 V2 34.798
 RC 121.206 GL 59.53 GP -70.37 ZAL 96.98 ZAP 95.91 ETS 186.79 ZAE 73.94 ETE 106.30 ZAC 84.71 ETC 73.68 CLP 107.84

PLANETOCENTRIC CONIC

C3 563.793 VHL 23.744 DLA 68.69 RAL 357.16 RAD 6572.5 VEL 26.174 PTH 3.37 VHP 29.038 DPA -81.65 RAP 144.66 ECC10.2786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.38 14 9 51 5043.51 -1.76 245.57 266.48 21.32 15 33 55 4443.5 -9.20 243.05
 155.62 0 34 57 3298.78 -1.75 97.12 266.46 21.32 1 29 56 2698.8 -9.20 94.60
 24.38 14 9 51 5043.51 -1.76 245.57 266.48 21.32 15 33 55 4443.5 -9.20 243.05
 155.62 0 34 57 3298.78 -1.75 97.12 266.46 21.32 1 29 56 2698.8 -9.20 94.60
 24.38 14 9 51 5043.51 -1.76 245.57 266.48 21.32 15 33 55 4443.5 -9.20 243.05
 155.62 0 34 57 3298.78 -1.75 97.12 266.46 21.32 1 29 56 2698.8 -9.20 94.60

DIFFERENTIAL CORRECTIONS

TDE -2.333 TRA 1.3364 TC3 -.0615 BAU 1.4191
 RDE -11.0389 RRA 3.0612 RC3 -.1779 FAU .01933
 FDE 2.2047 FRA -.5746 FC3 .0297 BSP 11152
 BDE 11.0414 BRA 3.3402 BC3 .1883 FSP -189

MID-COURSE EXECUTION ACCURACY

SGT 936.1 SGR 3455.7 SG3 57.9
 RRT .6804 RRF -.9990 RTF -.6537
 SGB 3580.3 R23 -.0722 R13 -.9970
 SG1 3516.2 SG2 674.1 THA 79.15

ORBIT DETERMINATION ACCURACY

ST 272.3 SR 2732.8 SS 1365.3
 CRT .4201 CRS .9999 CST .4081
 LSA 3056.9 MSA 247.7 SSA 1.4
 EL1 2735.2 EL2 246.9 ALF 87.58

LAUNCH DATE FEB 17 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.628 GAL -4.91 AZL 61.48 HCA 186.96 SMA 128.59 ECC .17200 INC28.5234 V1 30.137
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.491 GAP 4.54 AZP 118.35 TAL 204.95 TAP 31.91 RCA 106.47 APO 150.70 V2 34.803
 RC 123.581 GL 63.54 GP -78.60 ZAL 100.69 ZAP 99.96 ETS 226.36 ZAE 87.75 ETE 145.43 ZAC 95.39 ETC 114.50 CLP 151.05

PLANETOCENTRIC CONIC

C3 215.593 VHL 14.683 DLA 66.83 RAL 340.69 RAD 6571.2 VEL 18.355 PTH 3.03 VHP 17.683 DPA -74.70 RAP 77.37 ECC 4.5481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.55 13 8 59 4932.25 -8.27 241.95 247.14 23.43 14 31 11 4332.3 -15.60 239.07
 153.45 23 20 33 3200.91 -8.27 95.85 247.12 23.43 24 13 54 2600.9 -15.59 92.98
 26.55 13 8 59 4932.25 -8.27 241.95 247.14 23.43 14 31 11 4332.3 -15.60 239.07
 153.45 23 20 33 3200.91 -8.27 95.85 247.12 23.43 24 13 54 2600.9 -15.59 92.98
 26.55 13 8 59 4932.25 -8.27 241.95 247.14 23.43 14 31 11 4332.3 -15.60 239.07
 153.45 23 20 33 3200.91 -8.27 95.85 247.12 23.43 24 13 54 2600.9 -15.59 92.98

DIFFERENTIAL CORRECTIONS

TDE 3.6386 TRA -1.1777 TC3 -.0251 BAU .0965
 RDE -3.7844 RRA 3.0495 RC3 -.0222 FAU .00397
 FDE 1.3213 FRA -.6799 FC3 -.0160 BSP 11888
 BDE 5.2499 BRA 3.2690 BC3 .0335 FSP -236

MID-COURSE EXECUTION ACCURACY

SGT 1840.0 SGR 3366.3 SG3 73.5
 RRT -.9080 RRF -.9776 RTF .9737
 SGB 3836.4 R23 -.1125 R13 -.9926
 SG1 3774.3 SG2 687.4 THA 117.38

ORBIT DETERMINATION ACCURACY

ST 1462.5 SR 1733.2 SS 846.2
 CRT -.9526 CRS .9844 CST -.9913
 LSA 2395.6 MSA 346.1 SSA 1.7
 EL1 2241.5 EL2 343.9 ALF 129.92

LAUNCH DATE FEB 17 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.587 GAL -4.65 AZL 70.06 HCA 189.88 SMA 128.31 ECC .17202 INC19.9370 V1 30.137
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.467 GAP 4.73 AZP 109.66 TAL 203.48 TAP 33.35 RCA 106.24 APO 150.38 V2 34.808
 RC 125.948 GL 61.88 GP -75.23 ZAL 104.12 ZAP 104.61 ETS 278.43 ZAE 96.27 ETE 196.77 ZAC 101.33 ETC 166.92 CLP -171.67

PLANETOCENTRIC CONIC

C3 113.014 VHL 10.631 DLA 63.41 RAL 339.78 RAD 6570.1 VEL 15.309 PTH 2.74 VHP 12.658 DPA -66.77 RAP 61.03 ECC 2.8599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.56 13 14 35 4803.86 -14.95 236.06 242.11 27.60 14 34 38 4203.9 -22.01 232.49
 149.44 23 7 40 3101.18 -14.94 94.47 242.09 27.60 23 59 21 2501.2 -21.99 90.90
 30.56 13 14 35 4803.86 -14.95 236.06 242.11 27.60 14 34 38 4203.9 -22.01 232.49
 149.44 23 7 40 3101.18 -14.94 94.47 242.09 27.60 23 59 21 2501.2 -21.99 90.90
 30.56 13 14 35 4803.86 -14.95 236.06 242.11 27.60 14 34 38 4203.9 -22.01 232.49
 149.44 23 7 40 3101.18 -14.94 94.47 242.09 27.60 23 59 21 2501.2 -21.99 90.90

DIFFERENTIAL CORRECTIONS

TDE 3.5349 TRA -2.7784 TC3 -.2859 BAU .4323
 RDE -.1437 RRA .6360 RC3 .0116 FAU .01596
 FDE 1.1823 FRA -.7209 FC3 -.1222 BSP 12475
 BDE 3.5378 BRA 2.8502 BC3 .2861 FSP -313

MID-COURSE EXECUTION ACCURACY

SGT 3897.5 SGR 770.1 SG3 95.7
 RRT -.8094 RRF -.7289 RTF .9904
 SGB 3972.9 R23 -.1419 R13 -.9879
 SG1 3947.7 SG2 446.5 THA 170.79

ORBIT DETERMINATION ACCURACY

ST 2153.4 SR 242.5 SS 752.9
 CRT -.1590 CRS .0627 CST -.9953
 LSA 2280.5 MSA 249.4 SSA 2.1
 EL1 2153.8 EL2 239.3 ALF 178.96

LAUNCH DATE FEB 17 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

RL 147.84 LAL .00 LOL 148.16 VL 27.546 GAL -4.41 AZL 74.71 HCA 192.91 SMA 128.03 ECC .17236 INC15.2882 V1 30.137
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.442 GAP 4.95 AZP 104.92 TAL 202.06 TAP 34.97 RCA 105.96 APO 150.09 V2 34.815
 RC 128.306 GL 58.70 GP -69.10 ZAL 106.97 ZAP 109.45 ETS 295.33 ZAE 102.63 ETE 212.36 ZAC 105.51 ETC 183.63 CLP -158.96

PLANETOCENTRIC CONIC

C3 71.828 VHL 8.475 DLA 60.22 RAL 342.88 RAD 6569.4 VEL 13.899 PTH 2.54 VHP 10.050 DPA -59.87 RAP 52.98 ECC 2.1821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.34 13 36 10 4687.80 -20.32 229.68 240.66 31.98 14 54 17 4087.8 -27.04 225.35
 145.66 23 10 49 3017.20 -20.31 92.58 240.64 31.98 24 1 7 2417.2 -27.03 88.26
 34.34 13 36 10 4687.80 -20.32 229.68 240.66 31.98 14 54 17 4087.8 -27.04 225.35
 145.66 23 10 49 3017.20 -20.31 92.58 240.64 31.98 24 1 7 2417.2 -27.03 88.26
 34.34 13 36 10 4687.80 -20.32 229.68 240.66 31.98 14 54 17 4087.8 -27.04 225.35
 145.66 23 10 49 3017.20 -20.31 92.58 240.64 31.98 24 1 7 2417.2 -27.03 88.26

DIFFERENTIAL CORRECTIONS

TDE 2.7488 TRA -2.5011 TC3 -.6373 BAU .6213
 RDE .8336 RRA -.1284 RC3 -.1117 FAU .02542
 FDE 1.2206 FRA -.7471 FC3 -.3064 BSP 12821
 BDE 2.8724 BRA 2.5044 BC3 .6470 FSP -401

MID-COURSE EXECUTION ACCURACY

SGT 4026.4 SGR 619.7 SG3 121.7
 RRT .7402 RRF .8489 RTF .9796
 SGB 4073.8 R23 .1726 R13 .9817
 SG1 4052.7 SG2 413.9 THA 6.57

ORBIT DETERMINATION ACCURACY

ST 2120.8 SR 566.0 SS 764.1
 CRT .9172 CRS -.9660 CST -.9890
 LSA 2312.1 MSA 236.3 SSA 2.7
 EL1 2184.0 EL2 219.0 ALF 13.90

LAUNCH DATE FEB 17 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 412.951

RL 147.84 LAL .00 LOL 148.16 VL 27.504 GAL -4.16 AZL 77.60 MCA 195.99 SMA 127.74 ECC .17289 INC12.3951 VI 30.137
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.417 GAP 5.18 AZP 101.93 TAL 200.66 TAP 36.65 RCA 105.66 APO 149.83 V2 34.821
 RC 130.653 GL 55.23 GP -62.97 ZAL 109.16 ZAP 114.25 ETS 301.21 ZAE 107.73 ETE 216.38 ZAC 108.87 ETC 188.89 CLP-154.67

PLANETOCENTRIC CONIC

C3 51.387 VHL 7.168 CLA 57.39 RAL 346.90 RAD 6568.9 VEL 13.143 PTH 2.40 VHP 8.536 DPA -53.60 RAP 48.05 ECC 1.8457
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.75 14 1 1 4589.70 -24.20 223.41 240.21 36.22 15 17 31 3989.7 -30.55 218.34
 142.25 23 18 1 2952.83 -24.18 90.59 240.18 36.21 24 7 14 2352.8 -30.54 85.53
 37.75 14 1 1 4589.70 -24.20 223.41 240.21 36.22 15 17 31 3989.7 -30.55 218.34
 142.25 23 18 1 2952.83 -24.18 90.59 240.18 36.21 24 7 14 2352.8 -30.54 85.53
 37.75 14 1 1 4589.70 -24.20 223.41 240.21 36.22 15 17 31 3989.7 -30.55 218.34
 142.25 23 18 1 2952.83 -24.18 90.59 240.18 36.21 24 7 14 2352.8 -30.54 85.53

DIFFERENTIAL CORRECTIONS

TOE 2.3526 TRA-2.2293 TC3-1.0315 BAU .7273
 RDE .8682 RRA -.2702 RC3 -.2384 FAU .03399
 FDE 1.2792 FRA -.7554 FC3 -.5726 BSP 13316
 BDE 2.5077 BRA 2.2456 BC3 1.0587 FSP -504

MID-COURSE EXECUTION ACCURACY

SGT 4080.8 SGR 871.2 SG3 149.0
 RRT .8819 RRF .9578 RTF .9719
 SGB 4172.8 R23 .1955 R13 .9757
 SG1 4153.2 SG2 403.6 THA 10.77

ORBIT DETERMINATION ACCURACY

ST 2126.4 SR 704.4 SS 794.0
 CRT .9512 CRS -.9893 CST -.9860
 LSA 2365.3 MSA 231.5 SSA 3.5
 EL1 2230.4 EL2 207.3 ALF 17.65

LAUNCH DATE FEB 17 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 418.867

RL 147.84 LAL .00 LOL 148.16 VL 27.461 GAL -3.91 AZL 79.58 MCA 199.11 SMA 127.45 ECC .17356 INC10.4202 VI 30.137
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.393 GAP 5.41 AZP 99.86 TAL 199.24 TAP 38.35 RCA 105.33 APO 149.57 V2 34.829
 RC 132.989 GL 51.85 GP -57.30 ZAL 110.74 ZAP 118.86 ETS 303.99 ZAE 111.93 ETE 216.87 ZAC 111.77 ETC 190.74 CLP-153.31

PLANETOCENTRIC CONIC

C3 39.709 VHL 6.301 CLA 54.91 RAL 351.03 RAD 6568.5 VEL 12.692 PTH 2.31 VHP 7.599 DPA -47.84 RAP 44.87 ECC 1.6535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.77 14 25 46 4507.99 -26.86 217.53 240.19 40.12 15 40 54 3908.0 -32.85 211.82
 139.23 23 26 13 2905.09 -26.85 88.73 240.18 40.12 24 14 38 2305.1 -32.84 83.02
 40.77 14 25 46 4507.99 -26.86 217.53 240.19 40.12 15 40 54 3908.0 -32.85 211.82
 139.23 23 26 13 2905.09 -26.85 88.73 240.18 40.12 24 14 38 2305.1 -32.84 83.02
 40.77 14 25 46 4507.99 -26.86 217.53 240.19 40.12 15 40 54 3908.0 -32.85 211.82
 139.23 23 26 13 2905.09 -26.85 88.73 240.18 40.12 24 14 38 2305.1 -32.84 83.02

DIFFERENTIAL CORRECTIONS

TOE 2.1837 TRA-1.9671 TC3-1.4043 BAU .7640
 RDE .8174 RRA -.2427 RC3 -.3145 FAU .03937
 FDE 1.3622 FRA -.6913 FC3 -.8584 BSP 12356
 BDE 2.3316 BRA 1.9821 BC3 1.4391 FSP -513

MID-COURSE EXECUTION ACCURACY

SGT 4093.2 SGR 925.6 SG3 170.6
 RRT .8898 RRF .9677 RTF .9619
 SGB 4196.6 R23 .2256 R13 .9667
 SG1 4176.1 SG2 414.0 THA 11.49

ORBIT DETERMINATION ACCURACY

ST 2194.6 SR 752.2 SS 841.5
 CRT .9594 CRS -.9944 CST -.9838
 LSA 2456.7 MSA 234.1 SSA 4.3
 EL1 2311.1 EL2 201.4 ALF 18.35

LAUNCH DATE FEB 17 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 424.778

RL 147.84 LAL .00 LOL 148.16 VL 27.418 GAL -3.66 AZL 81.02 MCA 202.24 SMA 127.16 ECC .17437 INC 8.9817 VI 30.137
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.369 GAP 5.65 AZP 98.32 TAL 197.82 TAP 40.06 RCA 104.99 APO 149.34 V2 34.837
 RC 135.313 GL 48.68 GP -52.15 ZAL 111.75 ZAP 123.20 ETS 305.65 ZAE 115.38 ETE 215.93 ZAC 114.38 ETC 191.26 CLP-153.17

PLANETOCENTRIC CONIC

C3 32.354 VHL 5.688 CLA 52.75 RAL 355.06 RAD 6568.3 VEL 12.399 PTH 2.24 VHP 6.997 DPA -42.55 RAP 42.81 ECC 1.5325
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.44 14 49 37 4439.36 -28.65 212.16 240.52 43.62 16 3 36 3839.4 -34.28 205.91
 136.56 23 34 31 2870.27 -28.64 87.12 240.50 43.61 24 22 21 2270.3 -34.27 80.86
 43.44 14 49 37 4439.36 -28.65 212.16 240.52 43.62 16 3 36 3839.4 -34.28 205.91
 136.56 23 34 31 2870.27 -28.64 87.12 240.50 43.61 24 22 21 2270.3 -34.27 80.86
 43.44 14 49 37 4439.36 -28.65 212.16 240.52 43.62 16 3 36 3839.4 -34.28 205.91
 136.56 23 34 31 2870.27 -28.64 87.12 240.50 43.61 24 22 21 2270.3 -34.27 80.86

DIFFERENTIAL CORRECTIONS

TOE 2.0093 TRA-1.8222 TC3-1.8745 BAU .8294
 RDE .7164 RRA -.2229 RC3 -.4033 FAU .04634
 FDE 1.3567 FRA -.6645 FC3-1.2400 BSP 13488
 BDE 2.1332 BRA 1.8358 BC3 1.9174 FSP -641

MID-COURSE EXECUTION ACCURACY

SGT 4223.5 SGR 932.1 SG3 194.7
 RRT .9052 RRF .9727 RTF .9588
 SGB 4325.1 R23 .2292 R13 .9631
 SG1 4307.7 SG2 388.4 THA 11.39

ORBIT DETERMINATION ACCURACY

ST 2219.9 SR 730.3 SS 850.5
 CRT .9639 CRS -.9963 CST -.9831
 LSA 2476.8 MSA 224.3 SSA 5.2
 EL1 2329.6 EL2 185.3 ALF 17.71

LAUNCH DATE FEB 17 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 430.689

RL 147.84 LAL .00 LOL 148.16 VL 27.374 GAL -3.40 AZL 82.12 MCA 205.38 SMA 126.87 ECC .17529 INC 7.8826 VI 30.137
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.345 GAP 5.89 AZP 97.13 TAL 196.37 TAP 41.75 RCA 104.63 APO 149.11 V2 34.846
 RC 137.625 GL 45.75 GP -47.55 ZAL 112.24 ZAP 127.21 ETS 306.83 ZAE 118.20 ETE 214.35 ZAC 116.78 ETC 191.19 CLP-153.62

PLANETOCENTRIC CONIC

C3 27.374 VHL 5.232 CLA 50.88 RAL 358.98 RAD 6568.1 VEL 12.196 PTH 2.19 VHP 6.605 DPA -37.71 RAP 41.55 ECC 1.4505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.78 15 12 25 4381.19 -29.84 207.36 241.19 46.66 16 25 26 3781.2 -35.14 200.67
 134.22 23 43 0 2844.71 -29.83 85.77 241.17 46.66 24 30 25 2244.7 -35.13 79.08
 45.78 15 12 25 4381.19 -29.84 207.36 241.19 46.66 16 25 26 3781.2 -35.14 200.67
 134.22 23 43 0 2844.71 -29.83 85.77 241.17 46.66 24 30 25 2244.7 -35.13 79.08
 45.78 15 12 25 4381.19 -29.84 207.36 241.19 46.66 16 25 26 3781.2 -35.14 200.67
 134.22 23 43 0 2844.71 -29.83 85.77 241.17 46.66 24 30 25 2244.7 -35.13 79.08

DIFFERENTIAL CORRECTIONS

TOE 1.9081 TRA-1.6673 TC3-2.3271 BAU .8675
 RDE .6366 RRA -.1809 RC3 -.4510 FAU .05073
 FDE 1.3484 FRA -.5897 FC3-1.6043 BSP 13814
 BDE 2.0115 BRA 1.6771 BC3 2.3704 FSP -704

MID-COURSE EXECUTION ACCURACY

SGT 4321.1 SGR 898.5 SG3 212.4
 RRT .9052 RRF .9700 RTF .9539
 SGB 4413.6 R23 .2351 R13 .9579
 SG1 4397.6 SG2 375.2 THA 10.74

ORBIT DETERMINATION ACCURACY

ST 2264.0 SR 703.7 SS 861.2
 CRT .9665 CRS -.9974 CST -.9823
 LSA 2512.8 MSA 219.0 SSA 6.3
 EL1 2364.5 EL2 173.0 ALF 16.81

LAUNCH DATE FEB 17 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 436.595

RL 147.84 LAL .00 LOL 148.16 VL 27.331 GAL -3.13 AZL 82.99 MCA 208.52 SMA 126.58 ECC .17634 INC 7.0112 V1 30.137
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.321 GAP 6.13 AZP 96.17 TAL 194.91 TAP 43.43 RCA 104.26 APO 148.90 V2 34.855
 RC 139.923 GL 43.05 GP -43.46 ZAL 112.27 ZAP 130.88 ETS 307.77 ZAE 120.48 ETE 212.50 ZAC 119.04 ETC 190.85 CLP-154.36

PLANETOCENTRIC CONIC

C3 23.815 VHL 4.880 CLA 49.28 RAL 2.82 RAD 6568.0 VEL 12.050 PTH 2.15 VHP 6.352 OPA -33.32 RAP 40.87 ECC 1.3919
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.82 15 34 18 4331.32 -30.63 203.09 242.20 49.30 16 46 29 3731.3 -35.63 196.05
 132.18 23 51 46 2825.83 -30.61 84.66 242.19 49.29 24 38 52 2225.8 -35.62 77.62
 47.82 15 34 18 4331.32 -30.63 203.09 242.20 49.30 16 46 29 3731.3 -35.63 196.05
 132.18 23 51 46 2825.83 -30.61 84.66 242.19 49.29 24 38 52 2225.8 -35.62 77.62
 47.82 15 34 18 4331.32 -30.63 203.09 242.20 49.30 16 46 29 3731.3 -35.63 196.05
 132.18 23 51 46 2825.83 -30.61 84.66 242.19 49.29 24 38 52 2225.8 -35.62 77.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8352 TRA-1.5219 TC3-2.7845 BAU .8995 SGT 4419.4 SGR 853.8 SG3 225.9 ST 2307.5 SR 673.4 SS 864.2
 RDE .5698 RRA -.1412 RC3 -.4773 FAU .05370 RRT .9019 RRF .9641 RTF .9496 CRT .9686 CRS -.9982 CST -.9815
 FDE 1.3207 FRA -.4978 FC3-1.9522 BSP 14107 SGB 4501.1 R23 .2357 R13 .9530 LSA 2545.4 MSA 213.6 SSA 7.4
 BDE 1.9216 BRA 1.5285 BC3 2.8251 FSP -750 SG1 4486.4 SG2 363.2 THA 9.95 EL1 2398.3 EL2 161.0 ALF 15.86

LAUNCH DATE FEB 17 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 442.492

RL 147.84 LAL .00 LOL 148.16 VL 27.286 GAL -2.85 AZL 83.70 MCA 211.68 SMA 126.29 ECC .17751 INC 6.2997 V1 30.137
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.298 GAP 6.38 AZP 95.37 TAL 193.42 TAP 45.10 RCA 103.87 APO 148.71 V2 34.865
 RC 142.207 GL 40.54 GP -39.84 ZAL 111.87 ZAP 134.22 ETS 308.55 ZAE 122.32 ETE 210.57 ZAC 121.22 ETC 190.38 CLP-155.26

PLANETOCENTRIC CONIC

C3 21.166 VHL 4.601 CLA 47.90 RAL 6.62 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 6.194 OPA -29.33 RAP 40.66 ECC 1.3483
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.60 15 55 27 4288.09 -31.14 199.32 243.55 51.56 17 6 56 3688.1 -35.88 192.01
 130.40 0 4 52 2811.82 -31.13 83.77 243.54 51.55 0 51 44 2211.8 -35.87 76.46
 49.60 15 55 27 4288.09 -31.14 199.32 243.55 51.56 17 6 56 3688.1 -35.88 192.01
 130.40 0 4 52 2811.82 -31.13 83.77 243.54 51.55 0 51 44 2211.8 -35.87 76.46
 49.60 15 55 27 4288.09 -31.14 199.32 243.55 51.56 17 6 56 3688.1 -35.88 192.01
 130.40 0 4 52 2811.82 -31.13 83.77 243.54 51.55 0 51 44 2211.8 -35.87 76.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7793 TRA-1.3821 TC3-3.2442 BAU .9283 SGT 4518.1 SGR 807.0 SG3 235.5 ST 2347.7 SR 643.8 SS 859.9
 RDE .5146 RRA -.1070 RC3 -.4873 FAU .05548 RRT .8966 RRF .9554 RTF .9457 CRT .9708 CRS -.9988 CST -.9808
 FDE 1.2769 FRA -.3966 FC3-2.2692 BSP 14413 SGB 4589.6 R23 .2308 R13 .9487 LSA 2573.3 MSA 208.0 SSA 8.6
 BDE 1.8522 BRA 1.3862 BC3 3.2806 FSP -783 SG1 4576.0 SG2 352.9 THA 9.15 EL1 2429.8 EL2 149.2 ALF 14.96

LAUNCH DATE FEB 17 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 448.381

RL 147.84 LAL .00 LOL 148.16 VL 27.242 GAL -2.56 AZL 84.30 MCA 214.84 SMA 126.00 ECC .17881 INC 5.7046 V1 30.137
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.275 GAP 6.62 AZP 94.69 TAL 191.92 TAP 46.76 RCA 103.47 APO 148.53 V2 34.875
 RC 144.478 GL 38.20 GP -36.65 ZAL 111.10 ZAP 137.25 ETS 309.22 ZAE 123.79 ETE 208.66 ZAC 123.33 ETC 189.87 CLP-156.25

PLANETOCENTRIC CONIC

C3 19.133 VHL 4.374 CLA 46.71 RAL 10.43 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 6.105 OPA -25.70 RAP 40.80 ECC 1.3149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.16 16 16 6 4250.39 -31.47 195.99 245.24 53.51 17 26 56 3650.4 -35.98 188.46
 128.84 0 14 36 2801.39 -31.46 83.07 245.23 53.49 1 1 17 2201.4 -35.97 75.54
 51.16 16 16 6 4250.39 -31.47 195.99 245.24 53.51 17 26 56 3650.4 -35.98 188.46
 128.84 0 14 36 2801.39 -31.46 83.07 245.23 53.49 1 1 17 2201.4 -35.97 75.54
 51.16 16 16 6 4250.39 -31.47 195.99 245.24 53.51 17 26 56 3650.4 -35.98 188.46
 128.84 0 14 36 2801.39 -31.46 83.07 245.23 53.49 1 1 17 2201.4 -35.97 75.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7365 TRA-1.2427 TC3-3.7010 BAU .9548 SGT 4614.4 SGR 762.7 SG3 241.8 ST 2385.5 SR 617.5 SS 850.2
 RDE .4701 RRA -.0781 RC3 -.4855 FAU .05624 RRT .8893 RRF .9439 RTF .9423 CRT .9733 CRS -.9993 CST -.9801
 FDE 1.2230 FRA -.2900 FC3-2.5449 BSP 14707 SGB 4677.0 R23 .2213 R13 .9448 LSA 2598.8 MSA 202.2 SSA 9.8
 BDE 1.7990 BRA 1.2451 BC3 3.7327 FSP -804 SG1 4664.3 SG2 345.1 THA 8.41 EL1 2460.3 EL2 137.4 ALF 14.19

LAUNCH DATE FEB 17 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 454.260

RL 147.84 LAL .00 LOL 148.16 VL 27.198 GAL -2.26 AZL 84.80 MCA 218.00 SMA 125.71 ECC .18024 INC 5.1967 V1 30.137
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.253 GAP 6.86 AZP 94.10 TAL 190.39 TAP 48.40 RCA 103.05 APO 148.37 V2 34.885
 RC 146.734 GL 36.00 GP -33.84 ZAL 109.98 ZAP 140.01 ETS 309.79 ZAE 124.97 ETE 206.84 ZAC 125.41 ETC 189.36 CLP-157.27

PLANETOCENTRIC CONIC

C3 17.536 VHL 4.188 CLA 45.68 RAL 14.27 RAD 6567.7 VEL 11.786 PTH 2.08 VHP 6.065 OPA -22.41 RAP 41.24 ECC 1.2886
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.53 16 36 25 4217.28 -31.67 193.04 247.24 55.18 17 46 43 3617.3 -35.98 185.34
 127.47 0 24 57 2793.72 -31.66 82.51 247.23 55.17 1 11 30 2193.7 -35.97 74.82
 52.53 16 36 25 4217.28 -31.67 193.04 247.24 55.18 17 46 43 3617.3 -35.98 185.34
 127.47 0 24 57 2793.72 -31.66 82.51 247.23 55.17 1 11 30 2193.7 -35.97 74.82
 52.53 16 36 25 4217.28 -31.67 193.04 247.24 55.18 17 46 43 3617.3 -35.98 185.34
 127.47 0 24 57 2793.72 -31.66 82.51 247.23 55.17 1 11 30 2193.7 -35.97 74.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7044 TRA-1.1000 TC3-4.1471 BAU .9786 SGT 4705.5 SGR 722.8 SG3 245.0 ST 2422.2 SR 595.8 SS 837.4
 RDE .4348 RRA -.0533 RC3 -.4741 FAU .05610 RRT .8795 RRF .9296 RTF .9391 CRT .9762 CRS -.9996 CST -.9793
 FDE 1.1644 FRA -.1804 FC3-2.7696 BSP 14954 SGB 4760.7 R23 .2087 R13 .9412 LSA 2623.8 MSA 196.5 SSA 11.2
 BDE 1.7590 BRA 1.1013 BC3 4.1742 FSP -811 SG1 4748.5 SG2 340.9 THA 7.73 EL1 2491.2 EL2 125.8 ALF 13.54

LAUNCH DATE FEB 17 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 460.128

RL 147.84 LAL .00 LOL 148.16 VL 27.153 GAL -1.95 AZL 85.24 MCA 221.17 SMA 125.43 ECC .18182 INC 4.7557 V1 30.137
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.231 GAP 7.11 AZP 93.58 TAL 188.85 TAP 50.03 RCA 102.62 APO 148.23 V2 34.897
 RC 148.977 GL 33.91 GP -31.36 ZAL 108.54 ZAP 142.51 ETS 310.25 ZAE 125.91 ETE 205.13 ZAC 127.47 ETC 188.86 CLP-158.31

PLANETOCENTRIC CONIC

C3 16.265 VHL 4.033 DLA 44.76 RAL 18.18 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 6.063 DPA -19.41 RAP 41.91 ECC 1.2677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.76 16 56 39 4187.95 -31.77 190.41 249.56 56.63 18 6 27 3588.0 -35.90 182.57
 126.24 0 35 55 2788.42 -31.75 82.10 249.55 56.62 1 22 23 2188.4 -35.89 74.27
 53.76 16 56 39 4187.95 -31.77 190.41 249.56 56.63 18 6 27 3588.0 -35.90 182.57
 126.24 0 35 55 2788.42 -31.75 82.10 249.55 56.62 1 22 23 2188.4 -35.89 74.27
 53.76 16 56 39 4187.95 -31.77 190.41 249.56 56.63 18 6 27 3588.0 -35.90 182.57
 126.24 0 35 55 2788.42 -31.75 82.10 249.55 56.62 1 22 23 2188.4 -35.89 74.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6755 TRA -.9565 TC3-4.5868 BAU 1.0024 SGT 4797.6 SGR 688.6 SG3 246.3 ST 2451.2 SR 577.2 SS 819.1
 ROE .4060 RRA -.0333 RC3 -.4591 FAU .05545 RRT .8688 RRF .9128 RTF .9368 CRT .9793 CRS -.9996 CST -.9786
 FDE 1.0990 FRA -.0754 FC3-2.9517 BSP 15261 SGB 4846.8 R23 .1916 R13 .9385 LSA 2641.2 MSA 190.1 SSA 12.6
 BOE 1.7240 BRA .9571 BC3 4.6097 FSP -816 SG1 4835.0 SG2 338.3 TMA 7.14 EL1 2515.7 EL2 113.7 ALF 13.01

LAUNCH DATE FEB 17 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 465.985

RL 147.84 LAL .00 LOL 148.16 VL 27.108 GAL -1.63 AZL 85.63 MCA 224.34 SMA 125.14 ECC .18354 INC 4.3670 V1 30.137
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.209 GAP 7.36 AZP 93.13 TAL 187.30 TAP 51.64 RCA 102.17 APO 148.11 V2 34.908
 RC 151.204 GL 31.90 GP -29.17 ZAL 106.81 ZAP 144.80 ETS 310.60 ZAE 126.66 ETE 203.56 ZAC 129.53 ETC 188.39 CLP-159.35

PLANETOCENTRIC CONIC

C3 15.246 VHL 3.905 DLA 43.94 RAL 22.18 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 6.090 DPA -16.67 RAP 42.79 ECC 1.2509
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.88 17 16 57 4161.86 -31.78 188.05 252.17 57.90 18 26 18 3561.9 -35.77 180.11
 125.12 0 47 31 2785.22 -31.77 81.82 252.17 57.89 1 33 56 2185.2 -35.75 73.89
 54.88 17 16 57 4161.86 -31.78 188.05 252.17 57.90 18 26 18 3561.9 -35.77 180.11
 125.12 0 47 31 2785.22 -31.77 81.82 252.17 57.89 1 33 56 2185.2 -35.75 73.89
 54.88 17 16 57 4161.86 -31.78 188.05 252.17 57.90 18 26 18 3561.9 -35.77 180.11
 125.12 0 47 31 2785.22 -31.77 81.82 252.17 57.89 1 33 56 2185.2 -35.75 73.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6503 TRA -.8088 TC3-5.0085 BAU 1.0248 SGT 4886.6 SGR 659.9 SG3 245.8 ST 2474.4 SR 562.2 SS 797.5
 ROE .3830 RRA -.0163 RC3 -.4406 FAU .05431 RRT .8565 RRF .8937 RTF .9350 CRT .9828 CRS -.9992 CST -.9777
 FDE 1.0316 FRA .0258 FC3-3.0838 BSP 15552 SGB 4930.9 R23 .1725 R13 .9364 LSA 2653.5 MSA 183.4 SSA 14.1
 BOE 1.6942 BRA .8090 BC3 5.0279 FSP -814 SG1 4919.3 SG2 338.3 TMA 6.63 EL1 2535.5 EL2 101.4 ALF 12.61

LAUNCH DATE FEB 17 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 471.829

RL 147.84 LAL .00 LOL 148.16 VL 27.064 GAL -1.30 AZL 85.98 MCA 227.52 SMA 124.86 ECC .18543 INC 4.0198 V1 30.137
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.188 GAP 7.62 AZP 92.72 TAL 185.73 TAP 53.25 RCA 101.70 APO 148.01 V2 34.920
 RC 153.416 GL 29.95 GP -27.23 ZAL 104.81 ZAP 146.89 ETS 310.84 ZAE 127.27 ETE 202.13 ZAC 131.60 ETC 187.94 CLP-160.39

PLANETOCENTRIC CONIC

C3 14.431 VHL 3.799 DLA 43.17 RAL 26.28 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 6.141 DPA -14.15 RAP 43.83 ECC 1.2375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.94 17 37 28 4138.45 -31.72 185.90 255.08 59.02 18 46 26 3538.5 -35.57 177.88
 124.06 0 59 40 2784.13 -31.71 81.68 255.07 59.01 1 46 5 2184.1 -35.56 73.67
 55.94 17 37 28 4138.45 -31.72 185.90 255.08 59.02 18 46 26 3538.5 -35.57 177.88
 124.06 0 59 40 2784.13 -31.71 81.68 255.07 59.01 1 46 5 2184.1 -35.56 73.67
 55.94 17 37 28 4138.45 -31.72 185.90 255.08 59.02 18 46 26 3538.5 -35.57 177.88
 124.06 0 59 40 2784.13 -31.71 81.68 255.07 59.01 1 46 5 2184.1 -35.56 73.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6252 TRA -.6549 TC3-5.4080 BAU 1.0465 SGT 4972.5 SGR 636.2 SG3 243.9 ST 2487.7 SR 550.3 SS 772.4
 ROE .3648 RRA -.0012 RC3 -.4206 FAU .05282 RRT .8424 RRF .8726 RTF .9335 CRT .9863 CRS -.9980 CST -.9766
 FDE .9627 FRA .1240 FC3-3.1689 BSP 15844 SGB 5013.1 R23 .1533 R13 .9346 LSA 2656.4 MSA 177.0 SSA 15.7
 BOE 1.6656 BRA .6549 BC3 5.4244 FSP -807 SG1 5001.5 SG2 340.9 TMA 6.18 EL1 2546.3 EL2 88.8 ALF 12.32

LAUNCH DATE FEB 17 1969

FLIGHT TIME 164.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 477.661

RL 147.84 LAL .00 LOL 148.16 VL 27.019 GAL -.96 AZL 86.29 MCA 230.70 SMA 124.57 ECC .18747 INC 3.7060 V1 30.137
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.167 GAP 7.88 AZP 92.35 TAL 184.15 TAP 54.84 RCA 101.22 APO 147.93 V2 34.932
 RC 155.612 GL 28.05 GP -25.51 ZAL 102.56 ZAP 148.80 ETS 310.97 ZAE 127.76 ETE 200.83 ZAC 133.68 ETC 187.52 CLP-161.41

PLANETOCENTRIC CONIC

C3 13.789 VHL 3.713 DLA 42.44 RAL 30.48 RAD 6567.5 VEL 11.626 PTH 2.04 VHP 6.211 DPA -11.83 RAP 45.03 ECC 1.2269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.96 17 58 25 4117.10 -31.58 183.91 258.25 60.03 19 7 2 3517.1 -35.30 175.83
 123.04 1 12 15 2785.43 -31.57 81.70 258.24 60.01 1 58 40 2185.4 -35.29 73.62
 56.96 17 58 25 4117.10 -31.58 183.91 258.25 60.03 19 7 2 3517.1 -35.30 175.83
 123.04 1 12 15 2785.43 -31.57 81.70 258.24 60.01 1 58 40 2185.4 -35.29 73.62
 56.96 17 58 25 4117.10 -31.58 183.91 258.25 60.03 19 7 2 3517.1 -35.30 175.83
 123.04 1 12 15 2785.43 -31.57 81.70 258.24 60.01 1 58 40 2185.4 -35.29 73.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6019 TRA -.4923 TC3-5.7668 BAU 1.0656 SGT 5050.9 SGR 617.4 SG3 240.7 ST 2494.1 SR 541.5 SS 746.1
 ROE .3509 RRA .0125 RC3 -.3979 FAU .05095 RRT .8264 RRF .8501 RTF .9323 CRT .9898 CRS -.9958 CST -.9752
 FDE .8955 FRA .2187 FC3-3.1987 BSP 16062 SGB 5088.4 R23 .1349 R13 .9332 LSA 2653.5 MSA 170.9 SSA 17.3
 BOE 1.6398 BRA .4925 BC3 5.7805 FSP -792 SG1 5076.7 SG2 345.8 TMA 5.80 EL1 2551.1 EL2 75.5 ALF 12.14

LAUNCH DATE FEB 17 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.975 GAL -.60 AZL 86.58 HCA 233.88 SMA 124.29 ECC .18970 INC 3.4192 V1 30.137
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.146 GAP 8.14 AZP 92.02 TAL 182.55 TAP 56.43 RCA 100.72 APO 147.87 V2 34.945
 RC 157.792 GL 26.18 GP -23.98 ZAL 100.08 ZAP 150.57 ETS 310.97 ZAE 128.17 ETE 199.65 ZAC 135.77 ETC 187.11 CLP-162.41

PLANETOCENTRIC CONIC
 C3 13.298 VHL 3.647 CLA 41.72 RAL 34.78 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 6.297 OPA -9.69 RAP 46.35 ECC 1.2188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.98 18 19 54 4097.39 -31.36 182.04 261.68 60.94 19 28 12 3497.4 -34.96 173.92
 122.02 1 25 6 2789.32 -31.35 81.89 261.67 60.92 2 11 35 2189.3 -34.95 73.77
 57.98 18 19 54 4097.39 -31.36 182.04 261.68 60.94 19 28 12 3497.4 -34.96 173.92
 122.02 1 25 6 2789.32 -31.35 81.89 261.67 60.92 2 11 35 2189.3 -34.95 73.77
 57.98 18 19 54 4097.39 -31.36 182.04 261.68 60.94 19 28 12 3497.4 -34.96 173.92
 122.02 1 25 6 2789.32 -31.35 81.89 261.67 60.92 2 11 35 2189.3 -34.95 73.77

DIFFERENTIAL CORRECTIONS
 TDE 1.5712 TRA -.3239 TC3-6.0949 BAU 1.0856 SGT 5130.2 SGR 602.5 SG3 237.1 ST 2480.7 SR 533.5 SS 713.8
 RDE .3393 RRA .0251 RC3 -.3780 FAU .04908 RRT .8106 RRF .8270 RTF .9317 CRT .9930 CRS -.9922 CST -.9734
 FDE .8245 FRA .3079 FC3-3.1956 BSP 16338 SGB 5165.4 R23 .1165 R13 .9325 LSA 2630.7 MSA 165.3 SSA 19.1
 BDE 1.6074 BRA .3248 BC3 6.1066 FSP -780 SGI 5153.5 SG2 351.2 THA 5.46 EL1 2536.7 EL2 61.7 ALF 12.06

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.931 GAL -.23 AZL 86.85 HCA 237.06 SMA 124.02 ECC .19212 INC 3.1546 V1 30.137
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.126 GAP 8.41 AZP 91.72 TAL 180.95 TAP 58.01 RCA 100.19 APO 147.84 V2 34.957
 RC 159.953 GL 24.33 GP -22.61 ZAL 97.39 ZAP 152.21 ETS 310.86 ZAE 128.50 ETE 198.59 ZAC 137.88 ETC 186.73 CLP-163.40

PLANETOCENTRIC CONIC
 C3 12.944 VHL 3.598 CLA 40.98 RAL 39.18 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 6.398 OPA -7.70 RAP 47.78 ECC 1.2130
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.04 18 42 2 4078.81 -31.04 180.22 265.34 61.78 19 50 1 3478.8 -34.54 172.08
 120.96 1 38 0 2796.26 -31.03 82.29 265.33 61.76 2 24 36 2196.3 -34.53 74.14
 59.04 18 42 2 4078.81 -31.04 180.22 265.34 61.78 19 50 1 3478.8 -34.54 172.08
 120.96 1 38 0 2796.26 -31.03 82.29 265.33 61.76 2 24 36 2196.3 -34.53 74.14
 59.04 18 42 2 4078.81 -31.04 180.22 265.34 61.78 19 50 1 3478.8 -34.54 172.08
 120.96 1 38 0 2796.26 -31.03 82.29 265.33 61.76 2 24 36 2196.3 -34.53 74.14

DIFFERENTIAL CORRECTIONS
 TDE 1.5340 TRA -.1519 TC3-6.3754 BAU 1.1050 SGT 5207.3 SGR 590.4 SG3 232.5 ST 2448.7 SR 526.2 SS 677.0
 RDE .3301 RRA .0358 RC3 -.3585 FAU .04711 RRT .7947 RRF .8033 RTF .9325 CRT .9957 CRS -.9867 CST -.9713
 FDE .7523 FRA .3864 FC3-3.1509 BSP 16592 SGB 5240.6 R23 .0968 R13 .9332 LSA 2589.5 MSA 159.3 SSA 21.0
 BDE 1.5691 BRA .1561 BC3 6.3855 FSP -765 SGI 5228.5 SG2 356.9 THA 5.17 EL1 2504.2 EL2 47.4 ALF 12.08

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.887 GAL .16 AZL 87.09 HCA 240.25 SMA 123.74 ECC .19474 INC 2.9082 V1 30.137
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.106 GAP 8.69 AZP 91.44 TAL 179.34 TAP 59.59 RCA 99.65 APO 147.84 V2 34.970
 RC 162.097 GL 22.49 GP -21.39 ZAL 94.53 ZAP 153.72 ETS 310.61 ZAE 128.78 ETE 197.64 ZAC 140.02 ETC 186.35 CLP-164.37

PLANETOCENTRIC CONIC
 C3 12.720 VHL 3.567 CLA 40.20 RAL 43.64 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 6.512 OPA -5.85 RAP 49.32 ECC 1.2093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.18 19 4 56 4060.84 -30.62 178.43 269.21 62.56 20 12 36 3460.8 -34.02 170.28
 119.82 1 50 43 2806.73 -30.60 82.92 269.20 62.55 2 37 30 2206.7 -34.01 74.77
 60.18 19 4 56 4060.84 -30.62 178.43 269.21 62.56 20 12 36 3460.8 -34.02 170.28
 119.82 1 50 43 2806.73 -30.60 82.92 269.20 62.55 2 37 30 2206.7 -34.01 74.77
 60.18 19 4 56 4060.84 -30.62 178.43 269.21 62.56 20 12 36 3460.8 -34.02 170.28
 119.82 1 50 43 2806.73 -30.60 82.92 269.20 62.55 2 37 30 2206.7 -34.01 74.77

DIFFERENTIAL CORRECTIONS
 TDE 1.4955 TRA .0370 TC3-6.5857 BAU 1.1214 SGT 5276.9 SGR 583.4 SG3 227.7 ST 2406.7 SR 522.9 SS 646.4
 RDE .3249 RRA .0486 RC3 -.3363 FAU .04483 RRT .7759 RRF .7814 RTF .9320 CRT .9978 CRS -.9785 CST -.9684
 FDE .6895 FRA .4713 FC3-3.0511 BSP 16748 SGB 5309.0 R23 .0868 R13 .9326 LSA 2541.3 MSA 156.9 SSA 22.8
 BDE 1.5303 BRA .0611 BC3 6.5943 FSP -738 SGI 5296.4 SG2 366.7 THA 4.93 EL1 2462.6 EL2 33.9 ALF 12.23

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.843 GAL .56 AZL 87.32 HCA 243.44 SMA 123.47 ECC .19758 INC 2.6770 V1 30.137
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.087 GAP 8.98 AZP 91.20 TAL 177.72 TAP 61.15 RCA 99.08 APO 147.87 V2 34.983
 RC 164.221 GL 20.66 GP -20.30 ZAL 91.51 ZAP 155.13 ETS 310.22 ZAE 129.01 ETE 196.78 ZAC 142.17 ETC 185.98 CLP-165.32

PLANETOCENTRIC CONIC
 C3 12.622 VHL 3.553 CLA 39.37 RAL 48.15 RAD 6567.5 VEL 11.576 PTH 2.02 VHP 6.638 OPA -4.13 RAP 50.95 ECC 1.2077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.42 19 28 38 4042.96 -30.08 176.60 273.25 63.31 20 36 1 3443.0 -33.40 168.46
 118.58 2 2 58 2821.30 -30.07 83.84 273.24 63.29 2 49 59 2221.3 -33.39 75.69
 61.42 19 28 38 4042.96 -30.08 176.60 273.25 63.31 20 36 1 3443.0 -33.40 168.46
 118.58 2 2 58 2821.30 -30.07 83.84 273.24 63.29 2 49 59 2221.3 -33.39 75.69
 61.42 19 28 38 4042.96 -30.08 176.60 273.25 63.31 20 36 1 3443.0 -33.40 168.46
 118.58 2 2 58 2821.30 -30.07 83.84 273.24 63.29 2 49 59 2221.3 -33.39 75.69

DIFFERENTIAL CORRECTIONS
 TDE 1.4405 TRA .2302 TC3-6.7319 BAU 1.1373 SGT 5339.4 SGR 575.1 SG3 221.8 ST 2332.0 SR 515.6 SS 602.3
 RDE .3189 RRA .0603 RC3 -.3161 FAU .04260 RRT .7587 RRF .7581 RTF .9323 CRT .9988 CRS -.9656 CST -.9638
 FDE .6145 FRA .5465 FC3-2.9218 BSP 17036 SGB 5370.2 R23 .0726 R13 .9327 LSA 2458.1 MSA 155.8 SSA 24.4
 BDE 1.4754 BRA .2379 BC3 6.7393 FSP -727 SGI 5357.2 SG2 373.4 THA 4.69 EL1 2388.2 EL2 25.1 ALF 12.45

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 506.587

RL 147.84 LAL .00 LOL 148.16 VL 26.799 GAL .98 AZL 87.54 HCA 246.63 SMA 123.20 ECC .20065 INC 2.4580 V1 30.137
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.068 GAP 9.28 AZP 90.98 TAL 176.09 TAP 62.72 RCA 98.48 APO 147.93 V2 34.996
 RC 166.326 GL 18.85 GP -19.31 ZAL 88.37 ZAP 156.45 ETS 309.69 ZAE 129.21 ETE 196.00 ZAC 144.34 ETC 185.60 CLP-166.26

PLANETOCENTRIC CONIC

C3 12.651 VHL 3.557 DLA 38.47 RAL 52.66 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.775 DPA -2.52 RAP 52.65 ECC 1.2082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.79 19 53 14 4024.61 -29.43 174.70 277.44 64.02 21 0 19 3424.6 -32.66 166.58
 117.21 2 14 25 2840.63 -29.42 85.07 277.43 64.01 3 1 45 2240.6 -32.65 76.95
 62.79 19 53 14 4024.61 -29.43 174.70 277.44 64.02 21 0 19 3424.6 -32.66 166.58
 117.21 2 14 25 2840.63 -29.42 85.07 277.43 64.01 3 1 45 2240.6 -32.65 76.95
 62.79 19 53 14 4024.61 -29.43 174.70 277.44 64.02 21 0 19 3424.6 -32.66 166.58
 117.21 2 14 25 2840.63 -29.42 85.07 277.43 64.01 3 1 45 2240.6 -32.65 76.95

DIFFERENTIAL CORRECTIONS

TDE 1.3756 TRA .4308 TC3-6.8176 BAU 1.1542
 RDE .3147 RRA .0717 RC3 -.2990 FAU .04055
 FDE .5420 FRA .6151 FC3-2.7747 BSP 17310
 BOE 1.4112 BRA .4367 BC3 6.8242 FSP -714

MID-COURSE EXECUTION ACCURACY

SGT 5405.3 SGR 569.3 SG3 216.2
 RRT .7429 RRF .7366 RTF .9338
 SGB 5435.2 R23 .0589 R13 .9342
 SG1 5421.9 SG2 379.9 THA 4.50

ORBIT DETERMINATION ACCURACY

ST 2236.6 SR 509.0 SS 558.4
 CRT .9981 CRS -.9471 CST -.9582
 LSA 2355.3 MSA 157.3 SSA 25.8
 EL1 2293.5 EL2 30.6 ALF 12.80

LAUNCH DATE FEB 17 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 512.317

RL 147.84 LAL .00 LOL 148.16 VL 26.756 GAL 1.41 AZL 87.75 HCA 249.82 SMA 122.94 ECC .20398 INC 2.2492 V1 30.137
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.049 GAP 9.58 AZP 90.78 TAL 174.46 TAP 64.29 RCA 97.86 APO 148.02 V2 35.010
 RC 168.410 GL 17.06 GP -18.42 ZAL 85.13 ZAP 157.68 ETS 309.00 ZAE 129.38 ETE 195.31 ZAC 146.53 ETC 185.21 CLP-167.18

PLANETOCENTRIC CONIC

C3 12.809 VHL 3.579 DLA 37.50 RAL 57.16 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 6.924 DPA -1.01 RAP 54.43 ECC 1.2108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.32 20 18 47 4005.17 -28.66 172.68 281.74 64.71 21 25 32 3405.2 -31.81 164.59
 115.68 2 24 44 2865.40 -28.65 86.69 281.74 64.70 3 12 29 2265.4 -31.80 78.59
 64.32 20 18 47 4005.17 -28.66 172.68 281.74 64.71 21 25 32 3405.2 -31.81 164.59
 115.68 2 24 44 2865.40 -28.65 86.69 281.74 64.70 3 12 29 2265.4 -31.80 78.59
 64.32 20 18 47 4005.17 -28.66 172.68 281.74 64.71 21 25 32 3405.2 -31.81 164.59
 115.68 2 24 44 2865.40 -28.65 86.69 281.74 64.70 3 12 29 2265.4 -31.80 78.59

DIFFERENTIAL CORRECTIONS

TDE 1.3010 TRA .6435 TC3-6.8192 BAU 1.1688
 RDE .3122 RRA .0841 RC3 -.2803 FAU .03835
 FDE .4719 FRA .6831 FC3-2.5916 BSP 17521
 BOE 1.3380 BRA .6490 BC3 6.8250 FSP -694

MID-COURSE EXECUTION ACCURACY

SGT 5463.6 SGR 564.6 SG3 210.1
 RRT .7263 RRF .7164 RTF .9348
 SGB 5492.7 R23 .0496 R13 .9351
 SG1 5479.0 SG2 387.0 THA 4.31

ORBIT DETERMINATION ACCURACY

ST 2124.0 SR 502.4 SS 516.3
 CRT .9949 CRS -.9201 CST -.9507
 LSA 2236.7 MSA 163.6 SSA 26.6
 EL1 2182.0 EL2 49.3 ALF 13.25

LAUNCH DATE FEB 17 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 518.025

RL 147.84 LAL .00 LOL 148.16 VL 26.713 GAL 1.87 AZL 87.95 HCA 253.02 SMA 122.68 ECC .20757 INC 2.0487 V1 30.137
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.030 GAP 9.90 AZP 90.60 TAL 172.83 TAP 65.85 RCA 97.21 APO 148.14 V2 35.023
 RC 170.474 GL 15.29 GP -17.62 ZAL 81.83 ZAP 158.84 ETS 308.16 ZAE 129.53 ETE 194.68 ZAC 148.73 ETC 184.80 CLP-168.09

PLANETOCENTRIC CONIC

C3 13.104 VHL 3.620 DLA 36.45 RAL 61.59 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 7.084 DPA .40 RAP 56.28 ECC 1.2157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.02 20 45 22 3983.90 -27.78 170.49 286.13 65.38 21 51 46 3383.9 -30.85 162.44
 113.98 2 33 32 2896.44 -27.77 88.74 286.12 65.37 3 21 48 2296.4 -30.84 80.68
 66.02 20 45 22 3983.90 -27.78 170.49 286.13 65.38 21 51 46 3383.9 -30.85 162.44
 113.98 2 33 32 2896.44 -27.77 88.74 286.12 65.37 3 21 48 2296.4 -30.84 80.68
 66.02 20 45 22 3983.90 -27.78 170.49 286.13 65.38 21 51 46 3383.9 -30.85 162.44
 113.98 2 33 32 2896.44 -27.77 88.74 286.12 65.37 3 21 48 2296.4 -30.84 80.68

DIFFERENTIAL CORRECTIONS

TDE 1.2144 TRA .8657 TC3-6.7487 BAU 1.1831
 RDE .3106 RRA .0968 RC3 -.2632 FAU .03627
 FDE .4021 FRA .7469 FC3-2.3963 BSP 17744
 BOE 1.2535 BRA .8710 BC3 6.7538 FSP -677

MID-COURSE EXECUTION ACCURACY

SGT 5519.8 SGR 560.6 SG3 204.0
 RRT .7111 RRF .6976 RTF .9363
 SGB 5548.2 R23 .0404 R13 .9365
 SG1 5534.3 SG2 393.1 THA 4.15

ORBIT DETERMINATION ACCURACY

ST 1994.4 SR 494.9 SS 474.9
 CRT .9877 CRS -.8810 CST -.9410
 LSA 2101.6 MSA 175.3 SSA 26.7
 EL1 2053.5 EL2 75.0 ALF 13.79

LAUNCH DATE FEB 17 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 523.707

RL 147.84 LAL .00 LOL 148.16 VL 26.670 GAL 2.34 AZL 88.15 HCA 256.22 SMA 122.42 ECC .21146 INC 1.8547 V1 30.137
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.012 GAP 10.24 AZP 90.44 TAL 171.20 TAP 67.42 RCA 96.53 APO 148.31 V2 35.036
 RC 172.518 GL 13.55 GP -16.89 ZAL 78.50 ZAP 159.92 ETS 307.15 ZAE 129.67 ETE 194.11 ZAC 150.95 ETC 184.36 CLP-168.99

PLANETOCENTRIC CONIC

C3 13.542 VHL 3.680 DLA 35.34 RAL 65.93 RAD 6567.5 VEL 11.616 PTH 2.04 VHP 7.256 DPA 1.72 RAP 58.19 ECC 1.2229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.91 21 13 7 3959.90 -26.79 168.07 290.56 66.03 22 19 7 3359.9 -29.78 160.06
 112.09 2 40 24 2934.73 -26.77 91.29 290.56 66.02 3 29 19 2334.7 -29.77 83.28
 67.91 21 13 7 3959.90 -26.79 168.07 290.56 66.03 22 19 7 3359.9 -29.78 160.06
 112.09 2 40 24 2934.73 -26.77 91.29 290.56 66.02 3 29 19 2334.7 -29.77 83.28
 67.91 21 13 7 3959.90 -26.79 168.07 290.56 66.03 22 19 7 3359.9 -29.78 160.06
 112.09 2 40 24 2934.73 -26.77 91.29 290.56 66.02 3 29 19 2334.7 -29.77 83.28

DIFFERENTIAL CORRECTIONS

TDE 1.1205 TRA 1.1025 TC3-6.5903 BAU 1.1939
 RDE .3104 RRA .1105 RC3 -.2443 FAU .03406
 FDE .3363 FRA .8100 FC3-2.1773 BSP 17875
 BOE 1.1627 BRA 1.1080 BC3 6.5948 FSP -656

MID-COURSE EXECUTION ACCURACY

SGT 5567.6 SGR 557.1 SG3 197.6
 RRT .6961 RRF .6805 RTF .9375
 SGB 5595.4 R23 .0342 R13 .9377
 SG1 5581.1 SG2 399.0 THA 4.00

ORBIT DETERMINATION ACCURACY

ST 1861.0 SR 487.4 SS 439.5
 CRT .9744 CRS -.8270 CST -.9298
 LSA 1963.7 MSA 193.3 SSA 26.2
 EL1 1920.8 EL2 106.3 ALF 14.36

LAUNCH DATE FEB 17 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 18 1969

DISTANCE 529.361

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.628 GAL 2.84 AZL 88.33 HCA 259.43 SMA 122.16 ECC .21567 INC 1.6658 V1 30.137
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.994 GAP 10.59 AZP 90.31 TAL 169.56 TAP 68.99 RCA 95.82 APO 148.51 V2 35.050
 RC 174.540 GL 11.87 GP -16.23 ZAL 75.18 ZAP 160.94 ETS 305.95 ZAE 129.78 ETE 193.60 ZAC 153.19 ETC 183.87 CLP-169.87

PLANETOCENTRIC CONIC
 C3 14.136 VHL 3.760 DLA 34.17 RAL 70.15 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 7.440 OPA 2.96 RAP 60.16 ECC 1.2326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.03 21 42 15 3931.99 -25.69 165.34 295.02 66.66 22 47 47 3332.0 -28.62 157.39
 109.97 2 44 53 2981.46 -25.68 94.43 295.02 66.65 3 34 34 2381.5 -28.61 86.48
 70.03 21 42 15 3931.99 -25.69 165.34 295.02 66.66 22 47 47 3332.0 -28.62 157.39
 109.97 2 44 53 2981.46 -25.68 94.43 295.02 66.65 3 34 34 2381.5 -28.61 86.48
 110.00 2 53 6 2956.42 -26.35 92.79 295.33 67.39 3 42 22 2356.4 -29.17 84.75
 110.00 2 37 8 3005.03 -25.03 95.96 294.70 65.93 3 27 13 2405.0 -28.07 88.10

MID-COURSE EXECUTION ACCURACY
 SGT 5613.6 SGR 553.1 SG3 191.3
 RRT .6820 RRF .6644 RTF .9390
 SGB 5640.8 R23 .0283 R13 .9391
 SG1 5626.3 SG2 403.6 THA 3.86

ORBIT DETERMINATION ACCURACY
 ST 1720.0 SR 478.6 SS 407.9
 CRT .9513 CRS -.7530 CST -.9170
 LSA 1818.1 MSA 218.0 SSA 25.1
 EL1 1779.6 EL2 142.6 ALF 14.92

DIFFERENTIAL CORRECTIONS
 TOE 1.0130 TRA 1.3476 TC3-6.3734 BAU 1.2053
 ROE .3108 RRA .1245 RC3 -.2268 FAU .03199
 FOE .2708 FRA .8688 FC3-1.9591 BSP 18059
 BOE 1.0596 BRA 1.3534 BC3 6.3774 FSP -637

LAUNCH DATE FEB 17 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 20 1969

DISTANCE 534.983

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.586 GAL 3.36 AZL 88.52 HCA 262.63 SMA 121.91 ECC .22023 INC 1.4808 V1 30.137
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.977 GAP 10.95 AZP 90.19 TAL 167.93 TAP 70.57 RCA 95.06 APO 148.76 V2 35.063
 RC 176.542 GL 10.23 GP -15.63 ZAL 71.88 ZAP 161.89 ETS 304.55 ZAE 129.89 ETE 193.14 ZAC 155.44 ETC 183.31 CLP-170.75

PLANETOCENTRIC CONIC
 C3 14.901 VHL 3.860 DLA 32.94 RAL 74.20 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 7.637 OPA 4.11 RAP 62.18 ECC 1.2452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.42 22 13 14 3898.27 -24.52 162.18 299.48 67.28 23 18 13 3298.3 -27.38 154.29
 107.58 2 46 16 3038.57 -24.51 98.31 299.48 67.26 3 36 55 2438.6 -27.37 90.41
 72.42 22 13 14 3898.27 -24.52 162.18 299.48 67.28 23 18 13 3298.3 -27.38 154.29
 107.58 2 46 16 3038.57 -24.51 98.31 299.48 67.26 3 36 55 2438.6 -27.37 90.41
 110.00 4 10 47 2778.72 -30.41 80.57 301.84 73.57 4 57 6 2178.7 -32.35 71.89
 110.00 1 51 50 3206.13 -18.88 108.32 296.54 60.96 2 45 16 2606.1 -22.61 101.16

MID-COURSE EXECUTION ACCURACY
 SGT 5655.5 SGR 548.8 SG3 185.0
 RRT .6688 RRF .6494 RTF .9404
 SGB 5682.0 R23 .0232 R13 .9405
 SG1 5667.4 SG2 407.2 THA 3.73

ORBIT DETERMINATION ACCURACY
 ST 1584.1 SR 468.9 SS 383.4
 CRT .9136 CRS -.6566 CST -.9045
 LSA 1677.4 MSA 249.4 SSA 23.8
 EL1 1641.8 EL2 184.0 ALF 15.33

DIFFERENTIAL CORRECTIONS
 TOE .8950 TRA 1.6048 TC3-6.0979 BAU 1.2155
 ROE .3120 RRA .1392 RC3 -.2096 FAU .02998
 FOE .2072 FRA .9259 FC3-1.7420 BSP 18244
 BOE .9478 BRA 1.6108 BC3 6.1015 FSP -619

LAUNCH DATE FEB 17 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 22 1969

DISTANCE 540.571

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.544 GAL 3.90 AZL 88.70 HCA 265.84 SMA 121.66 ECC .22516 INC 1.2982 V1 30.137
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.959 GAP 11.34 AZP 90.09 TAL 166.31 TAP 72.15 RCA 94.27 APO 149.06 V2 35.076
 RC 178.523 GL 8.67 GP -15.09 ZAL 68.65 ZAP 162.79 ETS 302.94 ZAE 129.98 ETE 192.71 ZAC 157.69 ETC 182.66 CLP-171.62

PLANETOCENTRIC CONIC
 C3 15.855 VHL 3.982 DLA 31.69 RAL 78.09 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 7.848 OPA 5.20 RAP 64.24 ECC 1.2609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.15 22 46 51 3855.82 -23.28 158.38 303.93 67.87 23 51 7 3255.8 -26.07 150.54
 104.85 2 43 38 3108.95 -23.26 103.12 303.93 67.85 3 35 27 2508.9 -26.06 95.29
 75.15 22 46 51 3855.82 -23.28 158.38 303.93 67.87 23 51 7 3255.8 -26.07 150.54
 104.85 2 43 38 3108.95 -23.26 103.12 303.93 67.85 3 35 27 2508.9 -26.06 95.29
 110.00 4 55 6 2701.14 -31.77 74.93 306.99 76.65 5 40 7 2101.1 -33.27 66.03
 110.00 1 38 30 3311.63 -15.29 114.39 299.71 59.05 2 33 42 2711.6 -19.28 107.54

MID-COURSE EXECUTION ACCURACY
 SGT 5692.2 SGR 544.0 SG3 178.8
 RRT .6564 RRF .6356 RTF .9419
 SGB 5718.2 R23 .0188 R13 .9420
 SG1 5703.5 SG2 409.6 THA 3.61

ORBIT DETERMINATION ACCURACY
 ST 1465.0 SR 458.6 SS 367.4
 CRT .8555 CRS -.5411 CST -.8966
 LSA 1552.2 MSA 285.8 SSA 22.3
 EL1 1517.9 EL2 229.2 ALF 15.35

DIFFERENTIAL CORRECTIONS
 TOE .7684 TRA 1.8749 TC3-5.7717 BAU 1.2241
 ROE .3140 RRA .1545 RC3 -.1925 FAU .02802
 FOE .1466 FRA .9811 FC3-1.5300 BSP 18417
 BOE .8301 BRA 1.8813 BC3 5.7749 FSP -602

LAUNCH DATE FEB 17 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 24 1969

DISTANCE 546.118

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.503 GAL 4.47 AZL 88.88 HCA 269.05 SMA 121.42 ECC .23051 INC 1.1170 V1 30.137
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.942 GAP 11.74 AZP 90.02 TAL 164.69 TAP 73.74 RCA 93.43 APO 149.41 V2 35.089
 RC 180.483 GL 7.17 GP -14.59 ZAL 65.50 ZAP 163.62 ETS 301.11 ZAE 130.06 ETE 192.33 ZAC 159.96 ETC 181.87 CLP-172.48

PLANETOCENTRIC CONIC
 C3 17.019 VHL 4.125 DLA 30.41 RAL 81.78 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 8.075 OPA 6.21 RAP 66.35 ECC 1.2801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.42 23 24 52 3798.54 -21.98 153.50 308.35 68.44 24 28 11 3198.5 -24.72 145.73
 101.58 2 35 5 3198.62 -21.97 109.31 308.34 68.42 3 28 24 2598.6 -24.70 101.53
 78.42 23 24 52 3798.54 -21.98 153.50 308.35 68.44 24 28 11 3198.5 -24.72 145.73
 101.58 2 35 5 3198.62 -21.97 109.31 308.34 68.42 3 28 24 2598.6 -24.70 101.53
 110.00 5 32 0 2644.94 -32.57 70.75 311.82 79.01 6 16 5 2044.9 -33.74 61.71
 110.00 1 31 4 3400.22 -12.13 119.30 303.13 57.79 2 27 44 2800.2 -16.30 112.67

MID-COURSE EXECUTION ACCURACY
 SGT 5723.3 SGR 539.1 SG3 172.8
 RRT .6451 RRF .6237 RTF .9431
 SGB 5748.6 R23 .0159 R13 .9432
 SG1 5733.9 SG2 411.1 THA 3.50

ORBIT DETERMINATION ACCURACY
 ST 1376.4 SR 448.3 SS 361.3
 CRT .7732 CRS -.4180 CST -.8976
 LSA 1456.4 MSA 323.4 SSA 20.9
 EL1 1421.2 EL2 275.4 ALF 14.70

DIFFERENTIAL CORRECTIONS
 TOE .6378 TRA 2.1630 TC3-5.3981 BAU 1.2289
 ROE .3173 RRA .1708 RC3 -.1747 FAU .02602
 FOE .0908 FRA 1.0374 FC3-1.3236 BSP 18481
 BOE .7124 BRA 2.1697 BC3 5.4010 FSP -581

LAUNCH DATE FEB 17 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 551.619

RL 147.84 LAL .00 LOL 148.16 VL 26.462 GAL 5.08 AZL 89.06 MCA 272.26 SMA 121.18 ECC .23632 INC .9360 V1 30.137
 RP 107.96 LAP -.94 LOP 60.42 VP 36.924 GAP 12.17 AZP 89.96 TAL 163.09 TAP 75.35 RCA 92.54 APO 149.82 V2 35.102
 RC 182.422 GL 5.76 GP -14.13 ZAL 62.46 ZAP 164.40 ETS 299.03 ZAE 130.14 ETE 191.98 ZAC 162.22 ETC 180.91 CLP-173.34

PLANETOCENTRIC CONIC

C3 18.420 VHL 4.292 DLA 29.13 RAL 85.27 RAD 6567.7 VEL 11.824 PTH 2.09 VHP 8.317 DPA 7.15 RAP 68.50 ECC 1.3031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.85 0 16 51 3707.80 -20.66 146.22 312.73 68.99 1 18 39 3107.8 -23.33 138.50
 97.15 2 14 54 3326.12 -20.64 118.21 312.72 68.98 3 10 20 2726.1 -23.32 110.50
 100.00 3 33 45 3073.21 -25.22 101.20 314.42 73.40 4 24 58 2473.2 -27.26 92.99
 100.00 1 40 42 3435.95 -16.21 124.33 310.72 64.54 2 37 58 2835.9 -19.51 117.08
 110.00 6 4 29 2601.12 -33.09 67.44 316.47 80.90 6 47 50 2001.1 -34.00 58.31
 110.00 1 26 27 3480.80 -9.17 123.67 306.68 56.92 2 24 28 2880.8 -13.46 117.20

DIFFERENTIAL CORRECTIONS

TDE .4959 TRA 2.4614 TC3-5.0094 BAU 1.2342
 RDE .3210 RRA .1873 RC3 -.1581 FAU .02418
 FDE .0361 FRA 1.0907 FC3-1.1364 BSP 18634
 BOE .5907 BRA 2.4685 BC3 5.0119 FSP -565

MID-COURSE EXECUTION ACCURACY

SGT 5751.4 SGR 532.9 SG3 166.9
 RRT .6343 RRF .6121 RTF .9447
 SGB 5776.1 R23 .0127 R13 .9448
 SG1 5761.4 SG2 411.2 THA 3.38

ORBIT DETERMINATION ACCURACY

ST 1314.7 SR 437.0 SS 361.6
 CRT .6632 CRS -.2896 CST -.9069
 LSA 1386.1 MSA 358.7 SSA 19.5
 EL1 1348.3 EL2 318.9 ALF 13.18

LAUNCH DATE FEB 17 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 557.068

RL 147.84 LAL .00 LOL 148.16 VL 26.421 GAL 5.71 AZL 89.25 MCA 275.48 SMA 120.94 ECC .24262 INC .7540 V1 30.137
 RP 107.92 LAP -.75 LOP 63.64 VP 36.907 GAP 12.63 AZP 89.93 TAL 161.50 TAP 76.97 RCA 91.60 APO 150.29 V2 35.114
 RC 184.340 GL 4.43 GP -13.72 ZAL 59.53 ZAP 165.13 ETS 296.68 ZAE 130.20 ETE 191.65 ZAC 164.49 ETC 179.67 CLP-174.20

PLANETOCENTRIC CONIC

C3 20.089 VHL 4.482 DLA 27.86 RAL 88.56 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 8.578 DPA 8.02 RAP 70.68 ECC 1.3306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 25 3393.05 -22.82 123.93 318.35 72.77 3 9 58 2793.1 -24.97 115.92
 90.00 0 44 35 3681.86 -15.87 142.24 315.59 66.23 1 45 57 3081.9 -18.95 134.92
 100.00 4 22 34 2976.72 -26.93 94.54 319.59 76.51 5 12 11 2376.7 -28.52 86.10
 100.00 1 18 7 3573.43 -12.03 132.38 313.69 62.43 2 17 41 2973.4 -15.62 125.44
 110.00 6 33 42 2566.33 -33.44 64.78 320.99 82.44 7 16 28 1966.3 -34.12 55.60
 110.00 1 23 29 3556.58 -6.33 127.70 310.28 56.34 2 22 45 2956.6 -10.71 121.35

DIFFERENTIAL CORRECTIONS

TDE .3475 TRA 2.7761 TC3-4.6043 BAU 1.2372
 RDE .3255 RRA .2042 RC3 -.1418 FAU .02237
 FDE -.0155 FRA 1.1438 FC3 -.9642 BSP 18765
 BOE .4761 BRA 2.7836 BC3 4.6065 FSP -548

MID-COURSE EXECUTION ACCURACY

SGT 5774.7 SGR 525.8 SG3 161.2
 RRT .6241 RRF .6013 RTF .9463
 SGB 5798.6 R23 .0099 R13 .9463
 SG1 5784.0 SG2 410.2 THA 3.27

ORBIT DETERMINATION ACCURACY

ST 1289.5 SR 425.4 SS 368.5
 CRT .5322 CRS -.1693 CST -.9231
 LSA 1353.0 MSA 385.6 SSA 18.3
 EL1 1310.9 EL2 354.3 ALF 10.75

LAUNCH DATE FEB 17 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 562.457

RL 147.84 LAL .00 LOL 148.16 VL 26.381 GAL 6.38 AZL 89.43 MCA 278.69 SMA 120.71 ECC .24948 INC .5700 V1 30.137
 RP 107.88 LAP -.56 LOP 66.85 VP 36.890 GAP 13.12 AZP 89.91 TAL 159.92 TAP 78.61 RCA 90.60 APO 150.83 V2 35.126
 RC 186.236 GL 3.18 GP -13.34 ZAL 56.74 ZAP 165.79 ETS 294.04 ZAE 130.24 ETE 191.35 ZAC 166.75 ETC 178.03 CLP-175.05

PLANETOCENTRIC CONIC

C3 22.064 VHL 4.697 DLA 26.62 RAL 91.65 RAD 6567.9 VEL 11.977 PTH 2.13 VHP 8.859 DPA 8.83 RAP 72.89 ECC 1.3631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 7 17 3278.39 -24.92 116.19 323.63 76.10 4 1 55 2678.4 -26.59 107.91
 90.00 0 15 21 3841.58 -11.27 151.71 318.41 63.85 1 19 23 3241.6 -14.69 144.71
 100.00 4 59 39 2916.11 -27.82 90.25 324.35 78.60 5 48 15 2316.1 -29.11 81.69
 100.00 1 5 39 3679.09 -8.63 138.39 317.02 61.27 2 6 58 3079.1 -12.40 131.63
 110.00 7 0 13 2538.84 -33.66 62.66 325.41 83.67 7 42 32 1938.8 -34.17 53.46
 110.00 1 21 35 3629.12 -3.58 131.51 313.92 55.98 2 22 4 3029.1 -8.02 125.24

DIFFERENTIAL CORRECTIONS

TDE .1932 TRA 3.1077 TC3-4.1939 BAU 1.2377
 RDE .3307 RRA .2216 RC3 -.1259 FAU .02062
 FDE -.0640 FRA 1.1970 FC3 -.8092 BSP 18883
 BOE .3830 BRA 3.1156 BC3 4.1958 FSP -531

MID-COURSE EXECUTION ACCURACY

SGT 5792.9 SGR 517.8 SG3 155.8
 RRT .6144 RRF .5914 RTF .9480
 SGB 5816.0 R23 .0077 R13 .9480
 SG1 5801.7 SG2 407.9 THA 3.16

ORBIT DETERMINATION ACCURACY

ST 1299.1 SR 413.5 SS 380.2
 CRT .3925 CRS -.0634 CST -.9416
 LSA 1357.3 MSA 400.7 SSA 17.2
 EL1 1310.1 EL2 377.1 ALF 7.77

LAUNCH DATE FEB 17 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 567.776

RL 147.84 LAL .00 LOL 148.16 VL 26.342 GAL 7.10 AZL 89.62 MCA 281.91 SMA 120.48 ECC .25695 INC .3824 V1 30.137
 RP 107.85 LAP -.37 LOP 70.07 VP 36.873 GAP 13.64 AZP 89.92 TAL 158.36 TAP 80.28 RCA 89.52 APO 151.44 V2 35.138
 RC 188.109 GL 2.03 GP -12.99 ZAL 54.09 ZAP 166.40 ETS 291.11 ZAE 130.28 ETE 191.08 ZAC 169.00 ETC 175.72 CLP-175.92

PLANETOCENTRIC CONIC

C3 24.392 VHL 4.939 DLA 25.40 RAL 94.54 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 9.163 DPA 9.57 RAP 75.12 ECC 1.4014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 15 3213.47 -25.91 111.69 328.38 78.15 4 38 49 2613.5 -27.28 103.29
 90.00 0 0 24 3955.40 -7.77 158.25 321.67 62.69 1 6 19 3355.4 -11.38 151.42
 100.00 5 30 57 2872.70 -28.37 87.14 328.91 80.15 6 18 50 2272.7 -29.43 78.50
 100.00 0 57 23 3771.40 -5.57 143.54 320.48 60.58 2 0 14 3171.4 -9.45 136.90
 110.00 7 24 26 2517.66 -33.81 61.03 329.75 84.63 8 6 24 1917.7 -34.18 51.80
 110.00 1 20 23 3699.21 -.90 135.17 317.58 55.83 2 22 3 3099.2 -5.38 128.95

DIFFERENTIAL CORRECTIONS

TDE .0369 TRA 3.4619 TC3-3.7808 BAU 1.2334
 RDE .3370 RRA .2394 RC3 -.1103 FAU .01886
 FDE -.1083 FRA 1.2521 FC3 -.6692 BSP 18888
 BOE .3390 BRA 3.4702 BC3 3.7824 FSP -512

MID-COURSE EXECUTION ACCURACY

SGT 5806.6 SGR 509.2 SG3 150.6
 RRT .6058 RRF .5828 RTF .9497
 SGB 5828.9 R23 .0061 R13 .9497
 SG1 5814.8 SG2 404.6 THA 3.05

ORBIT DETERMINATION ACCURACY

ST 1339.2 SR 401.7 SS 395.0
 CRT .2604 CRS .0228 CST -.9583
 LSA 1395.6 MSA 403.6 SSA 16.2
 EL1 1343.7 EL2 386.6 ALF 4.87

LAUNCH DATE FEB 17 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 573.014

RL 147.84 LAL .00 LOL 148.16 VL 26.303 GAL 7.85 AZL 89.81 MCA 285.13 SMA 120.26 ECC .26511 INC .1901 V1 30.137
 RP 107.81 LAP -.18 LOP 73.29 VP 36.856 GAP 14.20 AZP 89.95 TAL 156.83 TAP 81.97 RCA 88.38 APO 152.14 V2 35.150
 RC 189.959 GL .95 GP -12.67 ZAL 51.58 ZAP 166.94 ETS 287.85 ZAE 130.30 ETE 190.82 ZAC 171.21 ETC 172.26 CLP-176.78

PLANETOCENTRIC CONIC

C3 27.127 VHL 5.208 DLA 24.23 RAL 97.23 RAD 6568.1 VEL 12.186 PTH 2.19 VHP 9.491 DPA 10.25 RAP 77.38 ECC 1.4464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 35 3168.75 -26.49 108.54 332.90 79.62 5 9 24 2568.8 -27.66 100.07
 90.00 23 46 35 4052.65 -4.70 163.75 325.10 62.04 24 54 8 3452.6 -8.41 157.02
 100.00 5 58 20 2840.70 -28.72 84.83 333.32 81.32 6 45 41 2240.7 -29.62 76.14
 100.00 0 51 27 3855.93 -2.73 148.20 324.01 60.22 1 55 43 3255.9 -6.67 141.63
 110.00 7 46 35 2502.05 -33.90 59.82 334.03 85.34 8 28 17 1902.0 -34.18 50.58
 110.00 1 19 42 3767.35 1.70 138.73 321.24 55.85 2 22 29 3167.3 -2.79 132.52

DIFFERENTIAL CORRECTIONS

TDE -.1299 TRA 3.8311 TC3-3.3861 BAU 1.2285
 ROE .3437 RRA .2569 RC3 -.0959 FAU .01722
 FDE -.1518 FRA 1.3064 FC3 -.5497 BSP 19000
 BOE .3674 BRA 3.8398 BC3 3.3875 FSP -497

MID-COURSE EXECUTION ACCURACY

SGT 5815.7 SGR 499.0 SG3 145.6
 RRT .5964 RRF .5738 RTF .9518
 SGB 5837.1 R23 .0044 R13 .9518
 SG1 5823.4 SG2 400.0 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 1397.9 SR 389.4 SS 411.4
 CRT .1382 CRS .0979 CST -.9713
 LSA 1454.9 MSA 397.3 SSA 15.4
 EL1 1399.0 EL2 385.3 ALF 2.39

LAUNCH DATE FEB 17 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 578.157

RL 147.84 LAL .00 LOL 148.16 VL 26.264 GAL 8.66 AZL 90.01 MCA 288.36 SMA 120.04 ECC .27402 INC .0000 V1 30.137
 RP 107.78 LAP .01 LOP 76.52 VP 36.840 GAP 14.81 AZP 90.00 TAL 155.33 TAP 83.69 RCA 87.15 APO 152.93 V2 35.161
 RC 191.786 GL -.03 GP -12.37 ZAL 49.22 ZAP 167.41 ETS 284.27 ZAE 130.30 ETE 190.58 ZAC 173.37 ETC 166.52 CLP-177.66

PLANETOCENTRIC CONIC

C3 30.338 VHL 5.508 DLA 23.11 RAL 99.73 RAD 6568.2 VEL 12.317 PTH 2.22 VHP 9.847 DPA 10.86 RAP 79.65 ECC 1.4993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 40 3136.69 -26.87 106.27 337.28 80.70 5 35 57 2536.7 -27.88 97.75
 90.00 23 39 27 4140.60 -1.88 168.67 328.60 61.74 24 48 28 3540.6 -5.64 162.01
 100.00 6 22 43 2817.34 -28.94 83.13 337.64 82.18 7 9 40 2217.3 -29.72 74.41
 100.00 0 47 2 3935.18 -.04 152.55 327.58 60.11 1 52 37 3335.2 -4.02 146.02
 110.00 8 6 53 2491.47 -33.96 59.00 338.26 85.82 8 48 24 1891.5 -34.16 49.76
 110.00 1 19 22 3833.81 4.24 142.20 324.91 56.05 2 23 15 3233.8 -.25 135.99

DIFFERENTIAL CORRECTIONS

TDE -.3025 TRA 4.2228 TC3-3.0067 BAU 1.2199
 ROE .3511 RRA .2743 RC3 -.0823 FAU .01563
 FDE -.1931 FRA 1.3622 FC3 -.4461 BSP 19086
 BOE .4634 BRA 4.2317 BC3 3.0078 FSP -482

MID-COURSE EXECUTION ACCURACY

SGT 5820.5 SGR 487.7 SG3 140.8
 RRT .5873 RRF .5652 RTF .9540
 SGB 5840.9 R23 .0029 R13 .9541
 SG1 5827.6 SG2 394.3 THA 2.83

ORBIT DETERMINATION ACCURACY

ST 1470.3 SR 376.9 SS 428.9
 CRT .0337 CRS .1594 CST -.9806
 LSA 1529.4 MSA 385.1 SSA 14.6
 EL1 1470.3 EL2 376.7 ALF .53

LAUNCH DATE FEB 17 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 583.188

RL 147.84 LAL .00 LOL 148.16 VL 26.226 GAL 9.52 AZL 90.21 MCA 291.58 SMA 119.82 ECC .28380 INC .2126 V1 30.137
 RP 107.75 LAP .20 LOP 79.74 VP 36.823 GAP 15.47 AZP 90.08 TAL 153.86 TAP 85.45 RCA 85.82 APO 153.83 V2 35.172
 RC 193.588 GL -.94 GP -12.10 ZAL 47.01 ZAP 167.81 ETS 280.34 ZAE 130.28 ETE 190.35 ZAC 175.40 ETC 155.56 CLP-178.55

PLANETOCENTRIC CONIC

C3 34.106 VHL 5.840 DLA 22.03 RAL 102.05 RAD 6568.3 VEL 12.469 PTH 2.26 VHP 10.235 DPA 11.42 RAP 81.93 ECC 1.5613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 35 3113.89 -27.11 104.64 341.56 81.48 5 59 29 2513.9 -28.01 96.09
 90.00 23 34 3 4222.34 .76 173.23 332.14 61.69 24 44 25 3622.3 -3.03 166.60
 100.00 6 44 37 2801.00 -29.09 81.94 341.87 82.80 7 31 18 2201.0 -29.78 73.20
 100.00 0 43 38 4010.47 2.51 156.68 331.17 60.20 1 50 28 3410.5 -1.47 150.16
 110.00 8 25 29 2485.46 -33.99 58.53 342.43 86.10 9 6 54 1885.5 -34.15 49.29
 110.00 1 19 16 3898.77 6.70 145.62 328.58 56.40 2 24 15 3298.8 2.23 139.38

DIFFERENTIAL CORRECTIONS

TDE -.4806 TRA 4.6389 TC3-2.6455 BAU 1.2067
 ROE .3593 RRA .2914 RC3 -.0696 FAU .01407
 FDE -.2320 FRA 1.4202 FC3 -.3571 BSP 19145
 BOE .6001 BRA 4.6481 BC3 2.6464 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 5820.4 SGR 475.4 SG3 136.2
 RRT .5780 RRF .5568 RTF .9565
 SGB 5839.7 R23 .0018 R13 .9565
 SG1 5826.9 SG2 387.5 THA 2.71

ORBIT DETERMINATION ACCURACY

ST 1549.3 SR 364.4 SS 446.8
 CRT -.0526 CRS .2089 CST -.9870
 LSA 1611.2 MSA 369.9 SSA 13.9
 EL1 1549.5 EL2 363.9 ALF 179.25

LAUNCH DATE FEB 17 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 588.087

RL 147.84 LAL .00 LOL 148.16 VL 26.189 GAL 10.45 AZL 90.43 MCA 294.81 SMA 119.61 ECC .29454 INC .4281 V1 30.137
 RP 107.71 LAP .39 LOP 82.97 VP 36.806 GAP 16.18 AZP 90.18 TAL 152.44 TAP 87.25 RCA 84.38 APO 154.84 V2 35.182
 RC 195.366 GL -1.78 GP -11.85 ZAL 44.95 ZAP 168.13 ETS 276.09 ZAE 130.23 ETE 190.13 ZAC 177.01 ETC 130.79 CLP-179.45

PLANETOCENTRIC CONIC

C3 38.535 VHL 6.208 DLA 21.02 RAL 104.19 RAD 6568.5 VEL 12.645 PTH 2.30 VHP 10.659 DPA 11.91 RAP 84.21 ECC 1.6342
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 56 3098.43 -27.26 103.54 345.74 82.02 6 20 34 2498.4 -28.08 94.97
 90.00 23 29 49 4299.48 3.25 177.53 335.71 61.85 24 41 28 3699.5 -.54 170.90
 100.00 7 4 24 2790.58 -29.18 81.17 346.02 83.19 7 50 55 2190.6 -29.81 72.43
 100.00 0 40 58 4082.57 4.94 160.66 334.78 60.48 1 49 0 3482.6 .97 154.12
 110.00 8 42 31 2483.61 -34.00 58.39 346.55 86.18 9 23 55 1883.6 -34.15 49.14
 110.00 1 19 20 3962.30 9.08 149.01 332.24 56.90 2 25 22 3362.3 4.65 142.71

DIFFERENTIAL CORRECTIONS

TDE -.6616 TRA 5.0857 TC3-2.3029 BAU 1.1868
 ROE .3684 RRA .3080 RC3 -.0575 FAU .01248
 FDE -.2680 FRA 1.4820 FC3 -.2803 BSP 19092
 BOE .7573 BRA 5.0950 BC3 2.3037 FSP -449

MID-COURSE EXECUTION ACCURACY

SGT 5816.7 SGR 462.0 SG3 131.9
 RRT .5686 RRF .5488 RTF .9591
 SGB 5835.0 R23 .0014 R13 .9591
 SG1 5822.6 SG2 379.7 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 1629.7 SR 352.1 SS 464.7
 CRT -.1213 CRS .2472 CST -.9913
 LSA 1694.3 MSA 353.6 SSA 13.2
 EL1 1630.3 EL2 349.4 ALF 178.43

LAUNCH DATE FEB 17 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.152 GAL 11.45 AZL 90.66 MCA 298.04 SMA 119.41 ECC .30637 INC .6552 V1 30.137
 RP 107.68 LAP .58 LOP 86.20 VP 36.789 GAP 16.95 AZP 90.31 TAL 151.07 TAP 89.10 RCA 82.82 APO 155.99 V2 35.192
 RC 197.118 GL -2.54 GP -11.63 ZAL 43.04 ZAP 168.37 ETS 271.52 ZAE 130.16 ETE 189.91 ZAC 177.37 ETC 84.12 CLP 179.62

PLANETOCENTRIC CONIC
 C3 43.750 VHL 6.614 OLA 20.06 RAL 106.17 RAD 6568.7 VEL 12.850 PTH 2.34 VHP 11.125 DPA 12.35 RAP 86.49 ECC 1.7200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 6 3089.05 -27.34 102.87 349.83 82.34 6 39 35 2489.0 -28.12 94.29
 90.00 23 26 25 4372.92 5.59 181.65 339.29 62.20 24 39 18 3772.9 1.83 175.00
 100.00 7 22 19 2785.26 -29.22 80.78 350.10 83.39 8 8 44 2185.3 -29.83 72.03
 100.00 0 38 49 4151.94 7.25 164.51 338.38 60.92 1 48 1 3551.9 3.32 157.93
 110.00 8 58 7 2485.52 -33.99 58.53 350.61 86.10 9 39 33 1885.5 -34.15 49.29
 110.00 1 19 30 4024.45 11.37 152.36 335.90 57.54 2 26 34 3424.4 7.00 145.98

DIFFERENTIAL CORRECTIONS
 TOE -.8555 TRA 5.5570 TC3-1.9892 BAU 1.1638 SGT 5808.0 SGR 447.1 SG3 127.7 ST 1708.4 SR 339.4 SS 482.9
 ROE .3779 RRA .3233 RC3 -.0469 FAU .01099 RRT .5578 RRF .5395 RTF .9620 CRT -.1810 CRS .2820 CST -.9942
 FDE -.3044 FRA 1.5454 FC3 -.2175 BSP 19162 SGB 5825.2 R23 .0009 R13 .9620 LSA 1775.9 MSA 336.5 SSA 12.6
 BOE .9352 BRA 5.5664 BC3 1.9897 FSP -436 SG1 5813.4 SG2 370.7 THA 2.47 EL1 1709.6 EL2 333.5 ALF 177.86

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.117 GAL 12.53 AZL 90.90 MCA 301.27 SMA 119.21 ECC .31944 INC .8962 V1 30.137
 RP 107.66 LAP .77 LOP 89.43 VP 36.773 GAP 17.81 AZP 90.47 TAL 149.75 TAP 91.02 RCA 81.13 APO 157.29 V2 35.201
 RC 198.846 GL -3.24 GP -11.42 ZAL 41.28 ZAP 168.51 ETS 266.68 ZAE 130.06 ETE 189.71 ZAC 176.14 ETC 50.29 CLP 178.67

PLANETOCENTRIC CONIC
 C3 49.909 VHL 7.065 OLA 19.15 RAL 107.98 RAD 6568.8 VEL 13.087 PTH 2.39 VHP 11.637 DPA 12.73 RAP 88.76 ECC 1.8214
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 23 3084.82 -27.38 102.56 353.84 82.49 6 56 48 2484.8 -28.14 93.98
 90.00 23 23 37 4443.18 7.81 185.63 342.85 62.69 24 37 40 3843.2 4.08 178.93
 100.00 7 38 33 2784.39 -29.23 80.72 354.10 83.42 8 24 57 2184.4 -29.83 71.97
 100.00 0 37 4 4218.84 9.45 168.26 341.98 61.51 1 47 23 3618.8 5.57 161.62
 110.00 9 12 23 2490.82 -33.96 58.95 354.62 85.85 9 53 53 1890.8 -34.16 49.71
 110.00 1 19 43 4085.17 13.56 155.69 339.54 58.32 2 27 48 3485.2 9.27 149.22

DIFFERENTIAL CORRECTIONS
 TOE-1.0569 TRA 6.0639 TC3-1.6985 BAU 1.1335 SGT 5796.4 SGR 431.0 SG3 123.6 ST 1783.0 SR 326.6 SS 501.4
 ROE .3882 RRA .3373 RC3 -.0372 FAU .00950 RRT .5459 RRF .5293 RTF .9550 CRT -.2302 CRS .3112 CST -.9961
 FDE -.3398 FRA 1.6131 FC3 -.1648 BSP 19200 SGB 5812.4 R23 .0005 R13 .9650 LSA 1853.4 MSA 319.7 SSA 12.0
 BOE 1.1259 BRA 6.0733 BC3 1.6989 FSP -423 SG1 5801.1 SG2 360.8 THA 2.33 EL1 1784.7 EL2 317.5 ALF 177.51

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.082 GAL 13.70 AZL 91.15 MCA 304.50 SMA 119.01 ECC .33392 INC 1.1546 V1 30.137
 RP 107.63 LAP .95 LOP 92.66 VP 36.756 GAP 18.75 AZP 90.65 TAL 148.51 TAP 93.01 RCA 79.27 APO 158.75 V2 35.209
 RC 200.549 GL -3.87 GP -11.22 ZAL 39.67 ZAP 168.54 ETS 261.60 ZAE 129.92 ETE 189.51 ZAC 174.29 ETC 35.63 CLP 177.68

PLANETOCENTRIC CONIC
 C3 57.211 VHL 7.564 OLA 18.31 RAL 109.64 RAD 6569.0 VEL 13.363 PTH 2.44 VHP 12.204 DPA 13.06 RAP 91.01 ECC 1.9416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 20 56 3085.00 -27.38 102.58 357.76 82.48 7 12 21 2485.0 -28.14 93.99
 90.00 23 21 16 4510.57 9.89 189.49 346.40 63.33 24 36 26 3910.6 6.23 182.72
 100.00 7 53 14 2787.39 -29.20 80.94 358.01 83.31 8 39 41 2187.4 -29.82 72.19
 100.00 0 35 35 4283.41 11.52 171.93 345.55 62.23 1 46 59 3683.4 7.71 165.21
 110.00 9 25 21 2499.16 -33.92 59.59 358.56 85.47 10 7 0 1899.2 -34.17 50.36
 110.00 1 19 57 4144.40 15.65 159.01 343.16 59.22 2 29 2 3544.4 11.46 152.42

DIFFERENTIAL CORRECTIONS
 TOE-1.2672 TRA 6.6043 TC3-1.4311 BAU 1.0948 SGT 5777.2 SGR 413.7 SG3 119.8 ST 1850.6 SR 313.9 SS 520.2
 ROE .3994 RRA .3494 RC3 -.0286 FAU .00800 RRT .5324 RRF .5178 RTF .9681 CRT -.2722 CRS .3363 CST -.9975
 FDE -.3745 FRA 1.6857 FC3 -.1210 BSP 19207 SGB 5792.0 R23 .0006 R13 .9681 LSA 1924.0 MSA 303.2 SSA 11.4
 BOE 1.3286 BRA 6.6136 BC3 1.4314 FSP -410 SG1 5781.4 SG2 349.9 THA 2.19 EL1 1852.6 EL2 301.7 ALF 177.28

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC
 RL 147.84 LAL .00 LOL 148.16 VL 26.048 GAL 14.99 AZL 91.43 MCA 307.73 SMA 118.82 ECC .35003 INC 1.4339 V1 30.137
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.740 GAP 19.79 AZP 90.88 TAL 147.35 TAP 95.08 RCA 77.23 APO 160.42 V2 35.217
 RC 202.227 GL -4.45 GP -11.04 ZAL 38.20 ZAP 168.47 ETS 256.35 ZAE 129.74 ETE 189.30 ZAC 172.30 ETC 28.47 CLP 176.66

PLANETOCENTRIC CONIC
 C3 65.911 VHL 8.119 OLA 17.53 RAL 111.14 RAD 6569.3 VEL 13.684 PTH 2.50 VHP 12.835 DPA 13.33 RAP 93.23 ECC 2.0847
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 56 3088.98 -27.35 102.86 1.57 82.34 7 26 25 2489.0 -28.12 94.28
 90.00 23 19 14 4575.22 11.84 193.23 349.91 64.09 24 35 29 3975.2 8.26 186.39
 100.00 8 6 29 2793.78 -29.15 81.41 1.83 83.07 8 53 2 2193.8 -29.80 72.67
 100.00 0 34 18 4345.65 13.47 175.53 349.08 63.06 1 46 44 3745.7 9.75 168.71
 110.00 9 37 7 2510.19 -33.86 60.45 2.41 84.97 10 18 57 1910.2 -34.18 51.22
 110.00 1 20 9 4202.01 17.63 162.30 346.75 60.23 2 30 11 3602.0 13.54 155.58

DIFFERENTIAL CORRECTIONS
 TOE-1.4836 TRA 7.1932 TC3-1.1844 BAU 1.0438 SGT 5756.4 SGR 395.3 SG3 116.2 ST 1910.6 SR 301.3 SS 539.3
 ROE .4117 RRA .3593 RC3 -.0209 FAU .00640 RRT .5170 RRF .5049 RTF .9713 CRT -.3071 CRS .3572 CST -.9984
 FDE -.4078 FRA 1.7657 FC3 -.0841 BSP 19099 SGB 5770.0 R23 .0011 R13 .9714 LSA 1987.3 MSA 287.4 SSA 10.9
 BOE 1.5397 BRA 7.2022 BC3 1.1846 FSP -394 SG1 5760.0 SG2 338.2 THA 2.04 EL1 1912.9 EL2 286.4 ALF 177.16

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 17 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 609.428

RL 147.84 LAL .00 LOL 148.16 VL 26.015 GAL 16.40 AZL 91.74 MCA 310.96 SMA 118.64 ECC .36800 INC 1.7389 V1 30.137
 RP 107.58 LAP 1.31 LOP 99.13 VP 36.724 GAP 20.95 AZP 91.14 TAL 146.30 TAP 97.26 RCA 74.98 APO 162.30 V2 35.225
 RC 203.880 GL -4.97 GP -10.87 ZAL 36.89 ZAP 168.27 ETS 251.01 ZAE 129.50 ETE 189.10 ZAC 170.27 ETC 24.39 CLP 175.58

PLANETOCENTRIC CONIC

C3 76.332 VHL 8.737 OLA 16.80 RAL 112.48 RAD 6569.5 VEL 14.060 PTH 2.56 VHP 13.539 DPA 13.55 RAP 95.42 ECC 2.2562
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 27 3096.25 -27.28 103.38 5.26 82.09 7 39 3 2496.3 -28.09 94.81
 90.00 23 17 26 4637.14 13.65 196.88 353.36 64.95 24 34 43 4037.1 10.16 189.94
 100.00 8 18 21 2803.11 -29.07 82.09 5.53 82.72 9 5 4 2203.1 -29.77 73.36
 100.00 0 33 9 4405.52 15.28 179.04 352.56 63.99 1 46 35 3805.5 11.67 172.12
 110.00 9 47 42 2523.56 -33.77 61.48 6.15 84.36 10 29 46 1923.6 -34.18 52.26
 110.00 1 20 17 4257.83 19.49 165.57 350.28 61.34 2 31 15 3657.8 15.51 158.71

DIFFERENTIAL CORRECTIONS

TDE -1.7177 TRA 7.8242 TC3 -.9639 BAU .9838
 RDE .4249 RRA .3657 RC3 -.0145 FAU .00482
 FDE -.4431 FRA 1.8513 FC3 -.0547 BSP 19115
 BOE 1.7695 BRA 7.8327 BC3 .9640 FSP -383

MID-COURSE EXECUTION ACCURACY

SGT 5730.2 SGR 375.6 SG3 112.7
 RRT .4979 RRF .4882 RTF .9746
 SGB 5742.5 R23 .0015 R13 .9746
 SG1 5733.2 SG2 325.5 THA 1.88

ORBIT DETERMINATION ACCURACY

ST 1964.0 SR 288.6 SS 560.0
 CRT -.3405 CRS .3790 CST -.9990
 LSA 2044.5 MSA 271.7 SSA 10.3
 EL1 1966.5 EL2 271.0 ALF 177.08

LAUNCH DATE FEB 17 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 612.689

RL 147.84 LAL .00 LOL 148.16 VL 25.984 GAL 17.96 AZL 92.08 MCA 314.20 SMA 118.47 ECC .38814 INC 2.0755 V1 30.137
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.708 GAP 22.25 AZP 91.45 TAL 145.37 TAP 99.57 RCA 72.49 APO 164.45 V2 35.232
 RC 205.908 GL -5.45 GP -10.72 ZAL 35.73 ZAP 167.95 ETS 245.64 ZAE 129.20 ETE 188.89 ZAC 168.27 ETC 21.80 CLP 174.45

PLANETOCENTRIC CONIC

C3 88.897 VHL 9.429 OLA 16.14 RAL 113.67 RAD 6569.7 VEL 14.500 PTH 2.63 VHP 14.330 DPA 13.73 RAP 97.55 ECC 2.4630
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 33 3106.34 -27.18 104.11 8.80 81.74 7 50 19 2506.3 -28.04 95.55
 90.00 23 15 48 4696.24 15.33 200.41 356.73 65.90 24 34 4 4096.2 11.94 193.37
 100.00 8 28 54 2814.97 -28.97 82.96 9.09 82.27 9 15 49 2215.0 -29.73 74.24
 100.00 0 32 3 4462.85 16.97 182.47 355.95 65.01 1 46 26 3862.9 13.46 175.44
 110.00 9 57 7 2538.94 -33.66 62.67 9.76 83.67 10 39 26 1938.9 -34.17 53.47
 110.00 1 20 20 4311.64 21.21 168.79 353.74 62.54 2 32 11 3711.6 17.36 161.78

DIFFERENTIAL CORRECTIONS

TDE -1.9644 TRA 8.5103 TC3 -.7642 BAU .9084
 RDE .4395 RRA .3682 RC3 -.0090 FAU .00313
 FDE -.4790 FRA 1.9459 FC3 -.0304 BSP 19100
 BOE 2.0129 BRA 8.5183 BC3 .7643 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 5699.8 SGR 354.8 SG3 109.4
 RRT .4746 RRF .4674 RTF .9779
 SGB 5710.8 R23 .0021 R13 .9779
 SG1 5702.3 SG2 312.1 THA 1.70

ORBIT DETERMINATION ACCURACY

ST 2008.9 SR 276.0 SS 582.2
 CRT -.3713 CRS .4000 CST -.9994
 LSA 2094.0 MSA 256.3 SSA 9.8
 EL1 2011.5 EL2 256.0 ALF 177.03

LAUNCH DATE FEB 17 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 615.410

RL 147.84 LAL .00 LOL 148.16 VL 25.954 GAL 19.69 AZL 92.45 MCA 317.43 SMA 118.31 ECC .41078 INC 2.4513 V1 30.137
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.693 GAP 23.72 AZP 91.81 TAL 144.59 TAP 102.02 RCA 69.71 APO 166.90 V2 35.238
 RC 207.111 GL -5.88 GP -10.57 ZAL 34.74 ZAP 167.48 ETS 240.33 ZAE 128.82 ETE 188.67 ZAC 166.32 ETC 20.05 CLP 173.25

PLANETOCENTRIC CONIC

C3 104.161 VHL 10.206 OLA 15.54 RAL 114.69 RAD 6570.0 VEL 15.017 PTH 2.70 VHP 15.224 DPA 13.87 RAP 99.61 ECC 2.7142
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 15 3118.84 -27.06 105.00 12.18 81.31 8 0 14 2518.8 -27.98 96.45
 90.00 23 14 14 4752.35 16.86 203.82 359.98 66.91 24 33 26 4152.3 13.59 196.67
 100.00 8 38 8 2828.99 -28.83 83.98 12.48 81.75 9 25 17 2229.0 -29.67 75.27
 100.00 0 30 58 4517.44 18.50 185.80 359.23 66.10 1 46 15 3917.4 15.12 178.64
 110.00 10 5 22 2556.02 -33.53 63.99 13.22 82.90 10 47 58 1956.0 -34.14 54.80
 110.00 1 20 13 4363.17 22.79 171.95 357.09 63.81 2 32 56 3763.2 19.09 164.78

DIFFERENTIAL CORRECTIONS

TDE -2.2261 TRA 9.2583 TC3 -.5847 BAU .8142
 RDE .4557 RRA .3654 RC3 -.0046 FAU .00127
 FDE -.5162 FRA 2.0509 FC3 -.0105 BSP 19075
 BOE 2.2723 BRA 9.2655 BC3 .5847 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 5664.9 SGR 333.0 SG3 106.3
 RRT .4455 RRF .4409 RTF .9810
 SGB 5674.7 R23 .0029 R13 .9810
 SG1 5666.8 SG2 298.0 THA 1.50

ORBIT DETERMINATION ACCURACY

ST 2045.1 SR 263.7 SS 606.4
 CRT -.4011 CRS .4215 CST -.9996
 LSA 2135.8 MSA 241.4 SSA 9.2
 EL1 2047.9 EL2 241.2 ALF 177.00

LAUNCH DATE FEB 17 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 617.445

RL 147.84 LAL .00 LOL 148.16 VL 25.926 GAL 21.63 AZL 92.88 MCA 320.66 SMA 118.15 ECC .43633 INC 2.8766 V1 30.137
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.678 GAP 25.38 AZP 92.23 TAL 143.99 TAP 104.65 RCA 66.60 APO 169.71 V2 35.243
 RC 208.690 GL -6.26 GP -10.43 ZAL 33.91 ZAP 166.85 ETS 235.13 ZAE 128.36 ETE 188.43 ZAC 164.44 ETC 18.81 CLP 171.95

PLANETOCENTRIC CONIC

C3 122.855 VHL 11.084 OLA 15.01 RAL 115.53 RAD 6570.3 VEL 15.627 PTH 2.78 VHP 16.239 DPA 13.98 RAP 101.58 ECC 3.0219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 33 3133.39 -26.90 106.04 15.36 80.81 8 8 46 2533.4 -27.90 97.51
 90.00 23 12 41 4805.20 18.24 207.08 3.08 67.96 24 32 47 4205.2 15.09 199.82
 100.00 8 46 2 2844.83 -28.67 85.13 15.68 81.17 9 33 27 2244.8 -29.60 76.45
 100.00 0 29 50 4568.99 19.90 188.99 2.36 67.22 1 45 59 3969.0 16.64 181.71
 110.00 10 12 26 2574.50 -33.36 65.40 16.48 82.08 10 55 20 1974.5 -34.10 56.24
 110.00 1 19 55 4412.09 24.23 175.03 .29 65.12 2 33 27 3812.1 20.67 167.69

DIFFERENTIAL CORRECTIONS

TDE -2.5035 TRA10.0776 TC3 -.4239 BAU .6962
 RDE .4740 RRA .3561 RC3 -.0012 FAU .00083
 FDE -.5552 FRA 2.1686 FC3 .0059 BSP 19013
 BOE 2.5480 BRA10.0839 BC3 .4239 FSP -351

MID-COURSE EXECUTION ACCURACY

SGT 5625.5 SGR 310.4 SG3 103.3
 RRT .4085 RRF .4064 RTF .9841
 SGB 5634.1 R23 .0037 R13 .9841
 SG1 5626.9 SG2 283.3 THA 1.29

ORBIT DETERMINATION ACCURACY

ST 2072.1 SR 251.6 SS 633.1
 CRT -.4308 CRS .4440 CST -.9998
 LSA 2169.4 MSA 226.8 SSA 8.7
 FL1 2074.9 EL2 226.8 ALF 176.97

LAUNCH DATE FEB 18 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 29 1969

HELIOCENTRIC CONIC

DISTANCE 184.900

RL 147.87 LAL .00 LOL 149.17 VL 26.809 GAL -7.55 AZL 88.54 MCA 82.12 SMA 123.30 ECC .23723 INC 1.4558 V1 30.131
 RP 108.33 LAP 1.44 LOP 231.28 VP 37.064 GAP -11.85 AZP 89.80 TAL 206.09 TAP 288.20 RCA 94.05 APO 152.55 V2 34.980
 RC 51.091 GL 7.30 GP 14.62 ZAL 136.99 ZAP 17.09 ETS 304.86 ZAE 147.76 ETE 14.75 ZAC 128.52 ETC 150.73 CLP -8.95

PLANETOCENTRIC CONIC

C3 28.241 VHL 5.314 OLA 11.33 RAL 7.83 RAD 6568.1 VEL 12.232 PTH 2.20 VHP 8.207 DPA 27.35 RAP 34.80 ECC 1.4648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 59 2658.03 -27.28 71.54 239.20 97.88 1 19 17 2058.0 -25.91 63.14
 90.00 15 27 8 4583.41 12.08 193.71 233.06 64.19 16 43 32 3983.4 8.51 186.85
 100.00 2 2 2 2377.28 -28.60 50.67 238.97 99.08 2 41 39 1777.3 -27.05 42.21
 100.00 16 42 46 4339.39 13.27 175.16 232.46 62.97 17 55 6 3739.4 9.54 168.36
 110.00 3 23 12 2123.29 -32.11 30.61 238.20 102.40 3 58 35 1523.3 -30.07 21.99
 110.00 17 38 6 4166.14 16.41 160.24 230.68 59.58 18 47 32 3566.1 12.25 153.61

DIFFERENTIAL CORRECTIONS

TDE -.2129 TRA -.3266 TC3 .4873 BAU .1928
 RDE -.3446 RRA .1811 RC3 .1527 FAU .03907
 FDE -.0408 FRA -.2036 FC3-1.1977 BSP 1933
 BDE .4050 BRA .3735 BC3 .5107 FSP -282

MID-COURSE EXECUTION ACCURACY

SGT 670.8 SGR 451.7 SG3 111.7
 RRT .3228 RRF -.4021 RTF -.6557
 SGB 808.7 R23 -.0642 R13 -.6829
 SG1 695.8 SG2 412.2 THA 19.25

ORBIT DETERMINATION ACCURACY

ST 254.0 SR 376.3 SS 63.0
 CRT .8254 CRS -.3627 CST -.7410
 LSA 438.0 MSA 131.7 SSA 29.8
 EL1 436.9 EL2 123.5 ALF 58.02

LAUNCH DATE FEB 18 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 191.665

RL 147.87 LAL .00 LOL 149.17 VL 26.990 GAL -7.92 AZL 88.73 MCA 85.31 SMA 124.43 ECC .22805 INC 1.2728 V1 30.131
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.184 GAP -10.93 AZP 89.90 TAL 207.52 TAP 292.83 RCA 96.06 APO 152.81 V2 34.967
 RC 52.697 GL 6.57 GP 15.58 ZAL 138.65 ZAP 19.29 ETS 310.11 ZAE 146.81 ETE 16.66 ZAC 128.51 ETC 149.69 CLP -11.52

PLANETOCENTRIC CONIC

C3 26.948 VHL 5.191 OLA 10.04 RAL 6.65 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 7.714 DPA 28.47 RAP 35.02 ECC 1.4435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 51 2603.63 -26.72 67.66 236.56 99.75 1 24 14 2003.6 -25.10 59.37
 90.00 15 11 50 4614.49 13.00 195.54 231.18 64.62 16 28 45 4014.5 9.47 188.63
 100.00 2 7 9 2325.28 -27.99 46.93 236.30 100.96 2 45 54 1725.3 -26.19 38.59
 100.00 16 28 13 4368.07 14.15 176.84 230.60 63.39 17 41 1 3768.1 10.47 169.99
 110.00 3 26 40 2076.45 -31.37 27.16 235.42 104.32 4 1 16 1476.4 -29.09 18.70
 110.00 17 25 12 4189.67 17.21 161.59 228.89 60.00 18 35 1 3589.7 13.10 154.90

DIFFERENTIAL CORRECTIONS

TDE -.1998 TRA -.3087 TC3 .5286 BAU .2021
 RDE -.3315 RRA .1881 RC3 .1880 FAU .04274
 FDE -.0793 FRA -.2526 FC3-1.3730 BSP 2013
 BDE .3870 BRA .3615 BC3 .5610 FSP -324

MID-COURSE EXECUTION ACCURACY

SGT 685.2 SGR 485.2 SG3 125.8
 RRT .3602 RRF -.4517 RTF -.6666
 SGB 828.2 R23 -.0761 R13 -.7000
 SG1 716.9 SG2 414.8 THA 21.10

ORBIT DETERMINATION ACCURACY

ST 244.3 SR 371.3 SS 86.1
 CRT .8180 CRS -.5499 CST -.8682
 LSA 431.3 MSA 133.9 SSA 31.9
 EL1 427.4 EL2 122.1 ALF 58.89

LAUNCH DATE FEB 18 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 198.417

RL 147.87 LAL .00 LOL 149.17 VL 27.153 GAL -7.51 AZL 88.91 MCA 88.50 SMA 125.47 ECC .21999 INC 1.0917 V1 30.131
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.290 GAP -10.06 AZP 89.97 TAL 208.92 TAP 297.42 RCA 97.87 APO 153.07 V2 34.954
 RC 54.398 GL 5.79 GP 16.64 ZAL 140.23 ZAP 21.74 ETS 314.41 ZAE 146.05 ETE 18.75 ZAC 128.34 ETC 148.66 CLP -14.20

PLANETOCENTRIC CONIC

C3 25.878 VHL 5.087 OLA 8.72 RAL 5.58 RAD 6568.0 VEL 12.135 PTH 2.17 VHP 7.254 DPA 29.64 RAP 35.08 ECC 1.4259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 6 2550.79 -26.05 63.94 234.18 101.50 1 29 37 1950.8 -24.20 55.75
 90.00 14 57 5 4647.22 13.94 197.48 229.56 65.10 16 14 32 4047.2 10.47 190.52
 100.00 2 12 41 2274.76 -27.28 43.34 233.89 102.72 2 50 36 1674.8 -25.25 35.12
 100.00 16 14 11 4398.49 15.07 178.63 229.00 63.88 17 27 29 3798.5 11.44 171.72
 110.00 3 30 36 2030.95 -30.56 23.86 232.92 106.12 4 4 27 1430.9 -28.05 15.57
 110.00 17 12 46 4215.06 18.07 163.06 227.35 60.48 18 23 1 3615.1 14.00 156.31

DIFFERENTIAL CORRECTIONS

TDE -.1860 TRA -.2925 TC3 .5653 BAU .2109
 RDE -.3175 RRA .1964 RC3 .2284 FAU .04683
 FDE -.1254 FRA -.3068 FC3-1.5666 BSP 2089
 BDE .3680 BRA .3523 BC3 .6097 FSP -371

MID-COURSE EXECUTION ACCURACY

SGT 696.9 SGR 481.6 SG3 141.5
 RRT .3992 RRF -.5047 RTF -.6750
 SGB 847.2 R23 -.0895 R13 -.7166
 SG1 737.1 SG2 417.5 THA 23.28

ORBIT DETERMINATION ACCURACY

ST 232.8 SR 363.9 SS 114.2
 CRT .8066 CRS -.6501 CST -.9249
 LSA 423.9 MSA 137.2 SSA 33.8
 EL1 414.8 EL2 120.7 ALF 59.90

LAUNCH DATE FEB 18 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 205.150

RL 147.87 LAL .00 LOL 149.17 VL 27.297 GAL -7.49 AZL 89.09 MCA 91.68 SMA 126.41 ECC .21294 INC .9112 V1 30.131
 RP 108.45 LAP .91 LOP 240.85 VP 37.383 GAP -9.22 AZP 90.03 TAL 210.28 TAP 301.96 RCA 99.49 APO 153.33 V2 34.942
 RC 56.186 GL 4.94 GP 17.81 ZAL 141.70 ZAP 24.43 ETS 317.96 ZAE 145.47 ETE 21.06 ZAC 127.97 ETC 147.66 CLP -17.00

PLANETOCENTRIC CONIC

C3 24.990 VHL 4.999 OLA 7.39 RAL 4.64 RAD 6568.0 VEL 12.098 PTH 2.17 VHP 6.826 DPA 30.86 RAP 34.95 ECC 1.4113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 45 2499.55 -25.31 60.37 232.07 103.14 1 35 24 1899.5 -23.25 52.30
 90.00 14 42 56 4681.23 14.91 199.51 228.18 65.64 16 0 57 4081.2 11.50 192.49
 100.00 2 18 38 2225.75 -26.50 39.91 231.74 104.37 2 55 44 1625.8 -24.26 31.82
 100.00 16 0 44 4430.26 16.02 180.52 227.65 64.42 17 14 34 3830.3 12.44 173.55
 110.00 3 34 59 1986.83 -29.69 20.73 230.70 107.78 4 8 6 1386.8 -26.97 12.59
 110.00 17 0 52 4241.95 18.97 164.63 226.05 61.01 18 11 34 3641.9 14.95 157.81

DIFFERENTIAL CORRECTIONS

TDE -.1718 TRA -.2784 TC3 .5957 BAU .2191
 RDE -.3023 RRA .2059 RC3 .2744 FAU .05136
 FDE -.1801 FRA -.3661 FC3-1.7795 BSP 2162
 BDE .3477 BRA .3463 BC3 .6558 FSP -425

MID-COURSE EXECUTION ACCURACY

SGT 705.0 SGR 502.0 SG3 159.0
 RRT .4382 RRF -.5600 RTF -.6804
 SGB 865.4 R23 -.1043 R13 -.7328
 SG1 756.4 SG2 420.5 THA 25.84

ORBIT DETERMINATION ACCURACY

ST 220.0 SR 353.9 SS 146.3
 CRT .7897 CRS -.7063 CST -.9515
 LSA 416.9 MSA 141.5 SSA 35.4
 EL1 399.1 EL2 119.7 ALF 60.99

LAUNCH DATE FEB 18 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 211.864

RL 147.87 LAL .00 LOL 149.17 VL 27.425 GAL -7.49 AZL 89.27 MCA 94.86 SMA 127.26 ECC .20679 INC .7302 VI 30.131
 RP 108.49 LAP .73 LOP 244.03 VP 37.465 GAP -8.43 AZP 90.06 TAL 211.56 TAP 306.43 RCA 100.94 APO 153.57 V2 34.929
 RC 58.051 GL 4.04 GP 19.10 ZAL 143.05 ZAP 27.34 ETS 320.96 ZAE 145.04 ETE 23.64 ZAC 127.41 ETC 146.69 CLP -19.94

PLANETOCENTRIC CONIC

C3 24.253 VHL 4.925 DLA 6.06 RAL 3.83 RAD 6568.0 VEL 12.068 PTH 2.16 VHP 6.429 DPA 32.14 RAP 34.61 ECC 1.3991
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 47 2449.85 -24.49 56.95 230.21 104.67 1 41 36 1849.8 -22.24 49.01
 90.00 14 29 26 4716.21 15.88 201.62 227.06 66.24 15 48 3 4116.2 12.53 194.54
 100.00 2 25 0 2178.22 -25.65 36.63 229.86 105.90 3 1 18 1578.2 -23.23 28.67
 100.00 15 47 54 4463.08 16.97 182.49 226.54 65.02 17 2 17 3863.1 13.46 175.45
 110.00 3 39 49 1944.05 -28.76 17.74 228.75 109.33 4 12 13 1344.1 -25.85 9.77
 110.00 16 49 34 4270.01 19.88 166.29 225.00 61.60 18 0 44 3670.0 15.94 159.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1575 TRA -.2669 TC3 .6186 BAU .2268
 RDE -.2854 RRA .2168 RC3 .3266 FAU .05637
 FDE -.2448 FRA -.4302 FC3-2.0122 BSP 2230
 BOE .3259 BRA .3438 BC3 .6995 FSP -484

SGT 708.7 SGR 527.3 SG3 178.4
 RRT .4753 RRF -.6160 RTF -.6822
 SGB 883.4 R23 -.1203 R13 -.7490
 SG1 774.7 SG2 424.4 THA 28.87

ST 206.6 SR 340.8 SS 182.1
 CRT .7654 CRS -.7385 CST -.9634
 LSA 411.1 MSA 146.9 SSA 36.6
 EL1 380.3 EL2 119.1 ALF 62.14

LAUNCH DATE FEB 18 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 218.554

RL 147.87 LAL .00 LOL 149.17 VL 27.538 GAL -7.48 AZL 89.45 MCA 98.05 SMA 128.02 ECC .20146 INC .5476 VI 30.131
 RP 108.53 LAP .54 LOP 247.21 VP 37.536 GAP -7.67 AZP 90.08 TAL 212.77 TAP 310.82 RCA 102.23 APO 153.81 V2 34.917
 RC 59.985 GL 3.08 GP 20.51 ZAL 144.28 ZAP 30.48 ETS 323.55 ZAE 144.76 ETE 26.56 ZAC 126.62 ETC 145.80 CLP -23.05

PLANETOCENTRIC CONIC

C3 23.640 VHL 4.862 DLA 4.72 RAL 3.16 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 6.063 DPA 33.47 RAP 34.03 ECC 1.3891
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 13 2401.57 -23.62 53.69 228.60 106.08 1 48 15 1801.6 -21.19 45.86
 90.00 14 16 37 4751.96 16.85 203.79 226.17 66.90 15 35 49 4152.0 13.57 196.64
 100.00 2 31 47 2132.04 -24.75 33.49 228.23 107.31 3 7 19 1532.0 -22.15 25.66
 100.00 15 35 44 4496.72 17.93 184.53 225.67 65.67 16 50 41 3896.7 14.49 177.42
 110.00 3 45 7 1902.52 -27.79 14.90 227.06 110.76 4 16 50 1302.5 -24.71 7.08
 110.00 16 38 53 4299.00 20.81 168.03 224.18 62.25 17 50 32 3699.0 16.93 161.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1420 TRA -.2570 TC3 .6349 BAU .2348
 RDE -.2659 RRA .2294 RC3 .3859 FAU .06188
 FDE -.3218 FRA -.5000 FC3-2.2663 BSP 2333
 BOE .3015 BRA .3445 BC3 .7429 FSP -554

SGT 708.2 SGR 559.1 SG3 199.8
 RRT .5094 RRF -.6715 RTF -.6822
 SGB 902.2 R23 -.1341 R13 -.7676
 SG1 793.6 SG2 429.3 THA 32.45

ST 191.5 SR 324.0 SS 222.0
 CRT .7293 CRS -.7550 CST -.9662
 LSA 407.6 MSA 152.8 SSA 37.4
 EL1 357.1 EL2 118.9 ALF 63.52

LAUNCH DATE FEB 18 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 225.220

RL 147.87 LAL .00 LOL 149.17 VL 27.636 GAL -7.47 AZL 89.64 MCA 101.23 SMA 128.69 ECC .19684 INC .3623 VI 30.131
 RP 108.57 LAP .36 LOP 250.39 VP 37.598 GAP -6.95 AZP 90.07 TAL 213.88 TAP 315.10 RCA 103.36 APO 154.02 V2 34.906
 RC 61.981 GL 2.07 GP 22.06 ZAL 145.36 ZAP 33.84 ETS 325.85 ZAE 144.57 ETE 29.85 ZAC 125.60 ETC 145.01 CLP -26.33

PLANETOCENTRIC CONIC

C3 23.129 VHL 4.809 DLA 3.39 RAL 2.62 RAD 6567.9 VEL 12.021 PTH 2.15 VHP 5.728 DPA 34.85 RAP 33.18 ECC 1.3806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 6 2354.53 -22.70 50.55 227.24 107.40 1 55 20 1754.5 -20.11 42.83
 90.00 14 4 27 4788.33 17.80 206.03 225.51 67.61 15 24 15 4188.3 14.61 198.81
 100.00 2 39 1 2087.05 -23.81 30.48 226.85 108.63 3 13 48 1487.1 -21.04 22.78
 100.00 15 24 13 4531.03 18.88 186.63 225.03 66.38 16 39 44 3931.0 15.52 179.45
 110.00 3 50 54 1862.09 -26.78 12.19 225.63 112.08 4 21 56 1262.1 -23.55 4.52
 110.00 16 28 49 4328.76 21.74 169.83 223.58 62.95 17 40 58 3728.8 17.94 162.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1292 TRA -.2522 TC3 .6377 BAU .2417
 RDE -.2440 RRA .2431 RC3 .4520 FAU .06775
 FDE -.4091 FRA -.5712 FC3-2.5359 BSP 2392
 BOE .2761 BRA .3503 BC3 .7816 FSP -626

SGT 700.3 SGR 598.1 SG3 222.8
 RRT .5349 RRF -.7238 RTF -.6731
 SGB 921.0 R23 -.1487 R13 -.7851
 SG1 811.0 SG2 436.3 THA 36.75

ST 179.4 SR 303.7 SS 264.1
 CRT .6813 CRS -.7585 CST -.9625
 LSA 409.4 MSA 158.6 SSA 37.7
 EL1 331.6 EL2 120.3 ALF 64.49

LAUNCH DATE FEB 18 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 231.859

RL 147.87 LAL .00 LOL 149.17 VL 27.722 GAL -7.46 AZL 89.83 MCA 104.40 SMA 129.28 ECC .19285 INC .1726 VI 30.131
 RP 108.60 LAP .17 LOP 253.57 VP 37.650 GAP -6.26 AZP 90.04 TAL 214.88 TAP 319.28 RCA 104.35 APO 154.22 V2 34.894
 RC 64.032 GL 1.00 GP 23.75 ZAL 146.30 ZAP 37.42 ETS 327.97 ZAE 144.45 ETE 33.59 ZAC 124.34 ETC 144.34 CLP -29.80

PLANETOCENTRIC CONIC

C3 22.701 VHL 4.765 DLA 2.05 RAL 2.22 RAD 6567.9 VEL 12.003 PTH 2.14 VHP 5.425 DPA 36.28 RAP 32.03 ECC 1.3736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 24 27 2308.48 -21.73 47.52 226.12 108.61 2 2 56 1708.5 -18.99 39.92
 90.00 13 52 55 4825.29 18.75 208.34 225.08 68.38 15 13 20 4225.3 15.65 201.03
 100.00 2 46 45 2043.03 -22.82 27.59 225.71 109.85 3 20 48 1443.0 -19.91 20.00
 100.00 15 13 18 4565.98 19.82 188.80 224.61 67.15 16 29 24 3966.0 16.55 181.53
 110.00 3 57 11 1822.56 -25.75 9.58 224.44 113.30 4 27 34 1222.6 -22.37 2.05
 110.00 16 19 21 4359.21 22.67 171.71 223.21 63.71 17 32 1 3759.2 18.96 164.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1179 TRA -.2515 TC3 .6287 BAU .2488
 RDE -.2187 RRA .2581 RC3 .5260 FAU .07396
 FDE -.5087 FRA -.6437 FC3-2.8206 BSP 2457
 BOE .2485 BRA .3604 BC3 .8197 FSP -704

SGT 686.1 SGR 645.6 SG3 247.4
 RRT .5499 RRF -.7718 RTF -.6562
 SGB 942.1 R23 -.1589 R13 -.8046
 SG1 829.9 SG2 445.7 THA 41.85

ST 169.3 SR 279.5 SS 309.0
 CRT .6151 CRS -.7493 CST -.9529
 LSA 417.5 MSA 163.0 SSA 37.6
 EL1 302.6 EL2 123.3 ALF 65.16

LAUNCH DATE FEB 18 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 238.470

RL 147.87 LAL .00 LOL 149.17 VL 27.795 GAL -7.45 AZL 90.02 HCA 107.58 SMA 129.80 ECC .18941 INC .0171 V1 30.131
 RP 108.64 LAP -.02 LOP 256.74 VP 37.694 GAP -5.61 AZP 89.99 TAL 215.76 TAP 323.34 RCA 105.21 APO 154.39 V2 34.883
 RC 66.131 GL -.13 GP 25.59 ZAL 147.08 ZAP 41.22 ETS 329.98 ZAE 144.35 ETE 37.80 ZAC 122.83 ETC 143.82 CLP -33.50

PLANETOCENTRIC CONIC

C3 22.343 VHL 4.727 DLA .71 RAL 1.96 RAD 6567.9 VEL 11.988 PTH 2.14 VHP 5.153 DPA 37.75 RAP 30.54 ECC 1.3677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 20 2263.14 -20.72 44.58 225.22 109.75 2 11 4 1663.1 -17.84 37.09
 90.00 13 41 57 4862.90 19.67 210.71 224.86 69.21 15 3 0 4262.9 16.67 203.32
 100.00 2 55 1 1999.69 -21.79 24.78 224.79 110.98 3 28 21 1399.7 -18.74 17.31
 100.00 15 2 58 4601.58 20.74 191.04 224.41 67.98 16 19 40 4001.6 17.57 183.68
 110.00 4 4 1 1783.69 -24.67 7.07 223.48 114.44 4 33 45 1183.7 -21.17 359.68
 110.00 16 10 27 4390.34 23.60 173.65 223.05 64.52 17 23 37 3790.3 19.97 166.39

DIFFERENTIAL CORRECTIONS

TDE -.1075 TRA -.2541 TC3 .6085 BAV .2572
 RDE -.1890 RRA .2746 RC3 .6090 FAU .08053
 FDE -.6237 FRA -.7174 FC3-3.1202 BSP 2566
 BDE .2175 BRA .3741 BC3 .8609 FSP -792

MID-COURSE EXECUTION ACCURACY

SGT 665.4 SGR 703.4 SG3 273.6
 RRT .5524 RRF -.8146 RTF -.6314
 SGB 968.3 R23 -.1592 R13 -.8280
 SG1 853.6 SG2 457.1 THA 47.87

ORBIT DETERMINATION ACCURACY

ST 160.7 SR 250.5 SS 358.2
 CRT .5200 CRS -.7224 CST -.9367
 LSA 433.8 MSA 165.3 SSA 37.1
 EL1 268.7 EL2 128.0 ALF 65.71

LAUNCH DATE FEB 18 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 245.052

RL 147.87 LAL .00 LOL 149.17 VL 27.858 GAL -7.44 AZL 90.22 HCA 110.75 SMA 130.24 ECC .18645 INC .2226 V1 30.131
 RP 108.67 LAP -.21 LOP 259.92 VP 37.730 GAP -4.98 AZP 89.92 TAL 216.53 TAP 327.27 RCA 105.96 APO 154.53 V2 34.873
 RC 68.274 GL -1.31 GP 27.55 ZAL 147.70 ZAP 45.24 ETS 331.96 ZAE 144.20 ETE 42.53 ZAC 121.06 ETC 143.49 CLP -37.42

PLANETOCENTRIC CONIC

C3 22.041 VHL 4.695 DLA -.63 RAL 1.84 RAD 6567.9 VEL 11.976 PTH 2.13 VHP 4.914 DPA 39.25 RAP 28.69 ECC 1.3627
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 49 2218.17 -19.66 41.71 224.53 110.80 2 19 48 1618.2 -16.65 34.32
 90.00 13 31 31 4901.29 20.58 213.16 224.85 70.11 14 53 12 4301.3 17.69 205.68
 100.00 3 3 52 1956.73 -20.72 22.04 224.09 112.04 3 36 29 1356.7 -17.55 14.68
 100.00 14 53 9 4637.96 21.65 193.36 224.42 68.87 16 10 27 4038.0 18.59 185.91
 110.00 4 11 27 1745.21 -23.57 4.63 222.73 115.51 4 40 32 1145.2 -19.94 357.37
 110.00 16 2 4 4422.24 24.52 175.67 223.10 65.40 17 15 46 3822.2 20.99 168.30

DIFFERENTIAL CORRECTIONS

TDE -.1019 TRA -.2632 TC3 .5703 BAV .2659
 RDE -.1552 RRA .2914 RC3 .6995 FAU .08702
 FDE -.7483 FRA -.7840 FC3-3.4179 BSP 2654
 BDE .1857 BRA .3927 BC3 .9025 FSP -878

MID-COURSE EXECUTION ACCURACY

SGT 636.7 SGR 770.5 SG3 299.9
 RRT .5320 RRF -.8506 RTF -.5870
 SGB 999.5 R23 -.1503 R13 -.8522
 SG1 881.5 SG2 471.3 THA 54.92

ORBIT DETERMINATION ACCURACY

ST 158.2 SR 218.3 SS 408.5
 CRT .3937 CRS -.6687 CST -.9181
 LSA 459.3 MSA 165.0 SSA 36.4
 EL1 232.4 EL2 136.6 ALF 64.88

LAUNCH DATE FEB 18 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 251.605

RL 147.87 LAL .00 LOL 149.17 VL 27.910 GAL -7.42 AZL 90.43 HCA 113.92 SMA 130.62 ECC .18390 INC .4328 V1 30.131
 RP 108.70 LAP -.40 LOP 263.09 VP 37.760 GAP -4.38 AZP 89.82 TAL 217.16 TAP 331.08 RCA 106.59 APO 154.64 V2 34.862
 RC 70.456 GL -2.57 GP 29.65 ZAL 148.16 ZAP 49.45 ETS 334.00 ZAE 143.93 ETE 47.76 ZAC 119.06 ETC 143.37 CLP -41.58

PLANETOCENTRIC CONIC

C3 21.788 VHL 4.668 DLA -1.99 RAL 1.86 RAD 6567.9 VEL 11.965 PTH 2.13 VHP 4.708 DPA 40.74 RAP 26.46 ECC 1.3586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 59 2173.19 -18.54 38.88 224.06 111.79 2 29 12 1573.2 -15.42 31.59
 90.00 13 21 29 4940.69 21.47 215.70 225.05 71.08 14 43 50 4340.7 18.69 208.13
 100.00 3 13 24 1913.79 -19.60 19.34 223.60 113.03 3 45 18 1313.8 -16.31 12.09
 100.00 14 43 46 4675.32 22.55 195.78 224.63 69.84 16 1 41 4075.3 19.60 188.22
 110.00 4 19 31 1706.82 -22.42 2.24 222.21 116.50 4 47 58 1106.8 -18.68 355.10
 110.00 15 54 8 4455.06 25.43 177.78 223.37 66.35 17 8 23 3855.1 22.02 170.30

DIFFERENTIAL CORRECTIONS

TDE -.1007 TRA -.2776 TC3 .5151 BAV .2766
 RDE -.1161 RRA .3083 RC3 .7978 FAU .09333
 FDE -.8839 FRA -.8424 FC3-3.7084 BSP 2773
 BDE .1537 BRA .4149 BC3 .9496 FSP -964

MID-COURSE EXECUTION ACCURACY

SGT 602.3 SGR 847.6 SG3 326.0
 RRT .4831 RRF -.8805 RTF -.5183
 SGB 1039.8 R23 -.1277 R13 -.8776
 SG1 919.0 SG2 486.4 THA 62.90

ORBIT DETERMINATION ACCURACY

ST 161.1 SR 183.6 SS 461.0
 CRT .2135 CRS -.5625 CST -.9003
 LSA 494.6 MSA 162.2 SSA 35.6
 EL1 193.0 EL2 149.7 ALF 60.81

LAUNCH DATE FEB 18 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 258.127

RL 147.87 LAL .00 LOL 149.17 VL 27.953 GAL -7.39 AZL 90.65 HCA 117.09 SMA 130.92 ECC .18171 INC .6532 V1 30.131
 RP 108.73 LAP -.58 LOP 266.26 VP 37.782 GAP -3.81 AZP 89.70 TAL 217.67 TAP 334.76 RCA 107.13 APO 154.72 V2 34.853
 RC 72.672 GL -3.90 GP 31.87 ZAL 148.44 ZAP 53.84 ETS 336.14 ZAE 143.47 ETE 53.46 ZAC 116.82 ETC 143.48 CLP -45.99

PLANETOCENTRIC CONIC

C3 21.579 VHL 4.645 DLA -3.38 RAL 2.02 RAD 6567.9 VEL 11.957 PTH 2.13 VHP 4.536 DPA 42.22 RAP 23.84 ECC 1.3551
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 56 2127.77 -17.37 36.06 223.80 112.72 2 39 24 1527.8 -14.14 28.87
 90.00 13 11 48 4981.44 22.35 218.37 225.45 72.14 14 34 49 4381.4 19.70 210.70
 100.00 3 23 42 1870.46 -18.42 16.66 223.32 113.97 3 54 53 1270.5 -15.03 9.51
 100.00 14 34 43 4713.98 23.43 198.31 225.06 70.89 15 53 17 4114.0 20.61 190.65
 110.00 4 28 20 1668.16 -21.23 359.87 221.89 117.44 4 56 8 1068.2 -17.38 352.85
 110.00 15 46 35 4489.05 26.34 180.01 223.84 67.38 17 1 24 3889.1 23.04 172.40

DIFFERENTIAL CORRECTIONS

TDE -.1040 TRA -.2964 TC3 .4438 BAV .2906
 RDE -.0708 RRA .3253 RC3 .9042 FAU .09930
 FDE -1.0305 FRA -.8912 FC3-3.9839 BSP 2956
 BDE .1258 BRA .4401 BC3 1.0072 FSP -1054

MID-COURSE EXECUTION ACCURACY

SGT 566.2 SGR 935.3 SG3 351.3
 RRT .3973 RRF -.9049 RTF -.4170
 SGB 1093.3 R23 -.0925 R13 -.9023
 SG1 972.4 SG2 499.8 THA 71.40

ORBIT DETERMINATION ACCURACY

ST 169.3 SR 151.0 SS 516.5
 CRT -.0678 CRS -.3436 CST -.8869
 LSA 540.5 MSA 157.8 SSA 34.4
 EL1 170.7 EL2 149.4 ALF 164.72

LAUNCH DATE FEB 18 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 264.619

RL 147.87 LAL .00 LOL 149.17 VL 27.987 GAL -7.36 AZL 90.89 HCA 120.25 SMA 131.17 ECC .17983 INC .8865 V1 30.131
 RP 108.76 LAP -.77 LOP 269.42 VP 37.799 GAP -3.26 AZP 89.55 TAL 218.05 TAP 338.31 RCA 107.58 APO 154.76 V2 34.844
 RC 74.919 GL -5.33 GP 34.18 ZAL 148.55 ZAP 58.36 ETS 338.44 ZAE 142.76 ETE 59.53 ZAC 114.39 ETC 143.83 CLP -50.65

PLANETOCENTRIC CONIC

C3 21.409 VHL 4.627 DLA -4.80 RAL 2.32 RAD 6567.9 VEL 11.949 PTH 2.13 VHP 4.398 DPA 43.65 RAP 20.84 ECC 1.3523
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 49 2081.41 -16.13 33.22 223.75 113.59 2 50 31 1481.4 -12.80 26.12
 90.00 13 2 19 5023.99 23.21 221.19 226.08 73.30 14 26 3 4424.0 20.70 213.42
 100.00 3 34 54 1826.29 -17.18 13.97 223.25 114.84 4 5 21 1226.3 -13.69 6.92
 100.00 14 25 55 4754.33 24.31 200.99 225.70 72.04 15 45 9 4154.3 21.62 193.22
 110.00 4 37 58 1628.85 -19.98 357.51 221.78 118.33 5 5 7 1028.8 -16.03 350.60
 110.00 15 39 20 4524.55 27.25 182.37 224.53 68.51 16 54 44 3924.5 24.09 174.63

DIFFERENTIAL CORRECTIONS

TDE -.1155 TRA -.3220 TC3 .3506 BAU .3071
 RDE -.0200 RRA .3397 RC3 1.0141 FAU .10429
 FDE -1.1787 FRA -.9191 FC3 -4.2172 BSP 3158
 BOE .1172 BRA .4681 BC3 1.0730 FSP -1130

MID-COURSE EXECUTION ACCURACY

SGT 534.6 SGR 1029.3 SG3 373.3
 RRT .2528 RRF -.9238 RTF -.2599
 SGB 1159.9 R23 -.0516 R13 -.9228
 SG1 1041.0 SG2 511.4 THA 80.11

ORBIT DETERMINATION ACCURACY

ST 187.0 SR 132.1 SS 571.5
 CRT -.4608 CRS .0528 CST -.8847
 LSA 595.6 MSA 152.3 SSA 33.1
 EL1 201.4 EL2 108.8 ALF 153.79

LAUNCH DATE FEB 18 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 271.080

RL 147.87 LAL .00 LOL 149.17 VL 28.013 GAL -7.32 AZL 91.14 HCA 123.42 SMA 131.37 ECC .17820 INC 1.1351 V1 30.131
 RP 108.78 LAP -.95 LOP 272.59 VP 37.811 GAP -2.74 AZP 89.37 TAL 218.31 TAP 341.73 RCA 107.96 APO 154.78 V2 34.835
 RC 77.194 GL -6.85 GP 36.55 ZAL 148.46 ZAP 62.97 ETS 340.96 ZAE 141.74 ETE 65.86 ZAC 111.80 ETC 144.43 CLP -55.55

PLANETOCENTRIC CONIC

C3 21.278 VHL 4.613 DLA -6.27 RAL 2.76 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 4.297 DPA 45.01 RAP 17.47 ECC 1.3502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 47 2033.56 -14.80 30.33 223.91 114.42 3 2 41 1433.6 -11.39 23.33
 90.00 12 52 54 5068.90 24.05 224.21 226.92 74.59 14 17 22 4468.9 21.71 216.33
 100.00 3 47 9 1780.77 -15.86 11.24 223.40 115.68 4 16 50 1180.8 -12.27 4.28
 100.00 14 17 13 4796.92 25.17 203.86 226.57 73.32 15 37 10 4196.9 22.64 195.97
 110.00 4 48 34 1588.46 -18.65 355.12 221.88 119.18 5 15 3 988.5 -14.62 348.33
 110.00 15 32 17 4562.00 28.16 184.90 225.45 69.77 16 48 19 3962.0 25.14 177.03

DIFFERENTIAL CORRECTIONS

TDE -.1357 TRA -.3525 TC3 .2375 BAU .3274
 RDE .0370 RRA .3511 RC3 1.1262 FAU .10811
 FDE -1.3267 FRA -.9257 FC3 -4.3984 BSP 3415
 BOE .1407 BRA .4976 BC3 1.1510 FSP -1193

MID-COURSE EXECUTION ACCURACY

SGT 520.1 SGR 1128.8 SG3 391.4
 RRT .0454 RRF -.9386 RTF -.0432
 SGB 1242.9 R23 -.0109 R13 -.9386
 SG1 1129.1 SG2 519.4 THA 88.48

ORBIT DETERMINATION ACCURACY

ST 214.3 SR 142.9 SS 626.8
 CRT -.8146 CRS .5193 CST -.8923
 LSA 660.9 MSA 146.7 SSA 31.6
 EL1 247.4 EL2 71.8 ALF 148.55

LAUNCH DATE FEB 18 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 277.511

RL 147.87 LAL .00 LOL 149.17 VL 28.033 GAL -7.27 AZL 91.40 HCA 126.58 SMA 131.51 ECC .17680 INC 1.4024 V1 30.131
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.818 GAP -2.23 AZP 89.16 TAL 218.45 TAP 345.03 RCA 108.25 APO 154.76 V2 34.827
 RC 79.493 GL -8.50 GP 38.97 ZAL 148.17 ZAP 67.61 ETS 343.72 ZAE 140.38 ETE 72.28 ZAC 109.09 ETC 145.27 CLP -60.67

PLANETOCENTRIC CONIC

C3 21.192 VHL 4.603 DLA -7.81 RAL 3.36 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 4.232 DPA 46.27 RAP 13.79 ECC 1.3488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 4 1983.56 -13.38 27.36 224.30 115.19 3 16 7 1383.6 -9.87 20.43
 90.00 12 43 22 5116.93 24.88 227.49 228.01 76.03 14 8 39 4516.9 22.72 219.48
 100.00 4 0 38 1733.29 -14.44 8.43 223.78 116.46 4 29 32 1133.3 -10.77 1.56
 100.00 14 8 29 4842.44 26.02 206.97 227.68 74.75 15 29 11 4242.4 23.68 198.96
 110.00 5 0 18 1546.52 -17.24 352.69 222.21 119.98 5 26 4 946.5 -13.13 346.00
 110.00 15 25 19 4601.98 29.07 187.66 226.63 71.17 16 42 1 4002.0 26.22 179.63

DIFFERENTIAL CORRECTIONS

TDE -.1654 TRA -.3863 TC3 .1066 BAU .3521
 RDE .1013 RRA .3588 RC3 1.2382 FAU .11057
 FDE -1.4724 FRA -.9108 FC3 -4.5169 BSP 3754
 BOE .1939 BRA .5272 BC3 1.2428 FSP -1248

MID-COURSE EXECUTION ACCURACY

SGT 536.2 SGR 1232.3 SG3 404.9
 RRT -.2010 RRF -.9502 RTF .2087
 SGB 1343.9 R23 .0247 R13 -.9500
 SG1 1238.0 SG2 522.9 THA 96.09

ORBIT DETERMINATION ACCURACY

ST 252.1 SR 188.0 SS 683.2
 CRT -.9606 CRS .8018 CST -.9059
 LSA 738.1 MSA 141.4 SSA 29.8
 EL1 311.6 EL2 42.3 ALF 143.61

LAUNCH DATE FEB 18 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 283.912

RL 147.87 LAL .00 LOL 149.17 VL 28.045 GAL -7.22 AZL 91.69 HCA 129.74 SMA 131.60 ECC .17560 INC 1.6923 V1 30.131
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.821 GAP -1.75 AZP 88.92 TAL 218.47 TAP 348.21 RCA 108.49 APO 154.71 V2 34.820
 RC 81.813 GL -10.29 GP 41.40 ZAL 147.67 ZAP 72.22 ETS 346.75 ZAE 138.67 ETE 78.65 ZAC 106.32 ETC 146.35 CLP -65.98

PLANETOCENTRIC CONIC

C3 21.155 VHL 4.599 DLA -9.44 RAL 4.11 RAD 6567.9 VEL 11.939 PTH 2.12 VHP 4.205 DPA 47.43 RAP 9.87 ECC 1.3482
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 55 1930.63 -11.82 24.25 224.95 115.92 3 31 6 1330.6 -8.24 17.40
 90.00 12 33 32 5169.03 25.69 231.09 229.37 77.66 13 59 41 4569.0 23.73 222.96
 100.00 4 15 38 1683.15 -12.89 5.50 224.40 117.20 4 43 41 1083.2 -9.15 358.72
 100.00 13 59 31 4891.74 26.86 210.39 229.07 76.36 15 21 2 4291.7 24.72 202.25
 110.00 5 13 20 1502.46 -15.73 350.17 222.78 120.75 5 38 23 902.5 -11.53 343.58
 110.00 15 18 18 4645.20 29.98 190.69 228.09 72.75 16 35 43 4045.2 27.33 182.51

DIFFERENTIAL CORRECTIONS

TDE -.2082 TRA -.4239 TC3 -.0443 BAU .3797
 RDE .1707 RRA .3592 RC3 1.3418 FAU .11107
 FDE -1.6031 FRA -.8656 FC3 -4.5455 BSP 4121
 BOE .2692 BRA .5557 BC3 1.3425 FSP -1274

MID-COURSE EXECUTION ACCURACY

SGT 596.2 SGR 1332.1 SG3 411.3
 RRT -.4385 RRF -.9589 RTF .4486
 SGB 1459.4 R23 .0542 R13 -.9579
 SG1 1362.1 SG2 524.1 THA 103.07

ORBIT DETERMINATION ACCURACY

ST 305.0 SR 255.1 SS 736.5
 CRT -.9899 CRS .9160 CST -.9227
 LSA 825.3 MSA 136.9 SSA 27.7
 EL1 396.7 EL2 27.8 ALF 140.14

LAUNCH DATE FEB 18 1969

FLIGHT TIME 102.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 290.283

RL 147.87 LAL .00 LOL 149.17 VL 28.052 GAL -7.16 AZL 92.01 MCA 132.90 SMA 131.65 ECC .17456 INC 2.0101 V1 30.131
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.819 GAP -1.29 AZP 88.63 TAL 218.38 TAP 351.27 RCA 108.67 APO 154.63 V2 34.813
 RC 84.153 GL -12.25 GP 43.81 ZAL 146.94 ZAP 76.71 ETS 350.06 ZAE 136.63 ETE 84.82 ZAC 103.54 ETC 147.62 CLP -71.43

PLANETOCENTRIC CONIC

C3 21.182 VHL 4.602 DLA -11.18 RAL 5.04 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 4.216 DPA 48.49 RAP 5.76 ECC 1.3486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 16 43 1873.80 -10.11 20.95 225.88 116.59 3 47 57 1273.8 -6.46 14.17
 90.00 12 23 7 5226.46 26.46 235.12 231.02 79.54 13 50 13 4626.5 24.75 226.87
 100.00 4 32 27 1629.50 -11.21 2.42 225.30 117.89 4 59 36 1029.5 -7.39 355.71
 100.00 13 50 5 4946.00 27.67 214.22 230.75 78.22 15 12 31 4346.0 25.77 205.94
 110.00 5 27 58 1455.64 -14.08 347.55 223.62 121.48 5 52 13 855.6 -9.81 341.05
 110.00 15 11 3 4692.62 30.89 194.09 229.86 74.57 16 29 16 4092.6 28.46 185.73

DIFFERENTIAL CORRECTIONS

TDE -.2643 TRA -.4618 TC3 -.2087 BAU .4109
 RDE .2474 RRA .3533 RC3 1.4359 FAU .10986
 FDE -1.7220 FRA -.7991 FC3 -4.4901 BSP 4567
 BDE .3620 BRA .5814 BC3 1.4510 FSP -1287

MID-COURSE EXECUTION ACCURACY

SGT 699.0 SGR 1429.2 SG3 411.7
 RRT -.6186 RRF -.9658 RTF .6286
 SGB 1591.0 R23 .0769 R13 -.9635
 SG1 1502.8 SG2 522.3 THA 109.25

ORBIT DETERMINATION ACCURACY

ST 373.1 SR 338.4 SS 790.0
 CRT -.9917 CRS .9621 CST -.9387
 LSA 927.0 MSA 133.6 SSA 25.4
 EL1 502.7 EL2 32.3 ALF 137.82

LAUNCH DATE FEB 18 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 296.624

RL 147.87 LAL .00 LOL 149.17 VL 28.053 GAL -7.09 AZL 92.36 MCA 136.05 SMA 131.65 ECC .17366 INC 2.3621 V1 30.131
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.814 GAP -.85 AZP 88.30 TAL 218.18 TAP 354.23 RCA 108.79 APO 154.52 V2 34.807
 RC 86.508 GL -14.40 GP 46.21 ZAL 145.96 ZAP 81.02 ETS 353.64 ZAE 134.29 ETE 90.67 ZAC 100.79 ETC 149.05 CLP -76.96

PLANETOCENTRIC CONIC

C3 21.289 VHL 4.614 DLA -13.05 RAL 6.15 RAD 6567.9 VEL 11.944 PTH 2.13 VHP 4.268 DPA 49.45 RAP 1.56 ECC 1.3504
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 58 1811.83 -8.20 17.40 227.14 117.20 4 7 10 1211.8 -4.49 10.68
 90.00 12 11 45 5290.87 27.18 239.69 233.02 81.73 13 39 56 4690.9 25.75 231.32
 100.00 4 51 32 1571.25 -9.33 359.11 226.54 118.53 5 17 43 971.3 -5.45 352.47
 100.00 13 39 52 5006.68 28.44 218.57 232.79 80.39 15 3 19 4406.7 26.82 210.14
 110.00 5 44 31 1405.29 -12.27 344.76 224.78 122.16 6 7 56 805.3 -7.94 338.35
 110.00 15 3 22 4745.41 31.78 197.94 232.01 76.69 16 22 27 4145.4 29.62 189.40

DIFFERENTIAL CORRECTIONS

TDE -.3375 TRA -.4990 TC3 -.3852 BAU .4437
 RDE .3287 RRA .3369 RC3 1.5106 FAU .10653
 FDE -1.8168 FRA -.7045 FC3 -4.3322 BSP 5026
 BDE .4711 BRA .6021 BC3 1.5590 FSP -1268

MID-COURSE EXECUTION ACCURACY

SGT 840.6 SGR 1514.7 SG3 404.1
 RRT -.7380 RRF -.9710 RTF .7472
 SGB 1732.3 R23 .0956 R13 -.9674
 SG1 1652.5 SG2 519.9 THA 114.91

ORBIT DETERMINATION ACCURACY

ST 460.7 SR 430.1 SS 839.1
 CRT -.9899 CRS .9817 CST -.9525
 LSA 1040.8 MSA 131.7 SSA 22.8
 EL1 628.6 EL2 44.7 ALF 136.99

LAUNCH DATE FEB 18 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 302.937

RL 147.87 LAL .00 LOL 149.17 VL 28.049 GAL -7.01 AZL 92.76 MCA 139.21 SMA 131.62 ECC .17288 INC 2.7566 V1 30.131
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.806 GAP -.43 AZP 87.91 TAL 217.87 TAP 357.08 RCA 108.87 APO 154.38 V2 34.802
 RC 88.877 GL -16.78 GP 48.59 ZAL 144.69 ZAP 85.06 ETS 357.49 ZAE 131.70 ETE 96.16 ZAC 98.13 ETC 150.61 CLP -82.53

PLANETOCENTRIC CONIC

C3 21.507 VHL 4.638 DLA -15.08 RAL 7.47 RAD 6567.9 VEL 11.954 PTH 2.13 VHP 4.364 DPA 50.36 RAP 357.32 ECC 1.3540
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 0 20 1743.04 -6.04 13.50 228.81 117.72 4 29 23 1143.0 -2.28 6.83
 90.00 11 58 54 5364.58 27.79 245.00 235.41 84.32 13 28 19 4764.6 26.71 236.50
 100.00 5 13 29 1507.01 -7.22 355.50 228.17 119.09 5 38 36 907.0 -3.29 348.92
 100.00 13 28 26 5075.84 29.12 223.59 235.24 82.95 14 53 2 4475.8 27.84 215.03
 110.00 6 3 28 1350.46 -10.27 341.78 226.32 122.79 6 25 58 750.5 -5.87 335.45
 110.00 14 54 57 4805.15 32.63 202.39 234.60 79.20 16 15 2 4205.1 30.80 193.66

DIFFERENTIAL CORRECTIONS

TDE -.4290 TRA -.5318 TC3 -.5649 BAU .4785
 RDE .4176 RRA .3116 RC3 1.5654 FAU .10159
 FDE -1.8941 FRA -.5948 FC3 -4.0892 BSP 5546
 BDE .5987 BRA .6164 BC3 1.6642 FSP -1236

MID-COURSE EXECUTION ACCURACY

SGT 1009.3 SGR 1591.6 SG3 390.6
 RRT -.8128 RRF -.9752 RTF .8209
 SGB 1884.6 R23 .1101 R13 -.9702
 SG1 1812.5 SG2 516.3 THA 119.94

ORBIT DETERMINATION ACCURACY

ST 568.2 SR 531.4 SS 887.5
 CRT -.9888 CRS .9910 CST -.9635
 LSA 1172.7 MSA 131.2 SSA 20.1
 EL1 775.9 EL2 58.1 ALF 136.94

LAUNCH DATE FEB 18 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 309.222

RL 147.87 LAL .00 LOL 149.17 VL 28.040 GAL -6.92 AZL 93.20 MCA 142.36 SMA 131.56 ECC .17222 INC 3.2048 V1 30.131
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.796 GAP -.02 AZP 87.46 TAL 217.47 TAP 359.83 RCA 108.90 APO 154.22 V2 34.797
 RC 91.256 GL -19.43 GP 50.96 ZAL 143.12 ZAP 88.78 ETS 358.78 ZAE 128.88 ETE 101.23 ZAC 95.58 ETC 152.25 CLP -88.07

PLANETOCENTRIC CONIC

C3 21.878 VHL 4.677 DLA -17.32 RAL 9.03 RAD 6567.9 VEL 11.969 PTH 2.13 VHP 4.506 DPA 51.26 RAP 353.07 ECC 1.3601
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 52 1664.94 -3.55 9.11 231.00 118.11 4 55 37 1064.9 .24 2.48
 90.00 11 43 47 5450.92 28.21 251.28 238.27 87.44 13 14 38 4850.9 27.56 242.68
 100.00 5 39 12 1434.77 -4.81 351.49 230.30 119.54 6 3 6 834.8 -.84 344.96
 100.00 13 15 9 5156.32 29.65 229.52 238.17 86.02 14 41 5 4556.3 28.78 220.82
 110.00 6 25 25 1289.94 -8.02 338.54 228.33 123.34 6 46 55 689.9 -3.58 332.27
 110.00 14 45 24 4873.91 33.39 207.62 237.72 82.20 16 6 38 4273.9 31.95 198.68

DIFFERENTIAL CORRECTIONS

TDE -.5429 TRA -.5578 TC3 -.7415 BAU .5136
 RDE .5128 RRA .2750 RC3 1.5916 FAU .09500
 FDE -1.9472 FRA -.4704 FC3 -3.7591 BSP 6093
 BDE .7468 BRA .6219 BC3 1.7559 FSP -1183

MID-COURSE EXECUTION ACCURACY

SGT 1198.2 SGR 1654.1 SG3 370.8
 RRT -.8593 RRF -.9786 RTF .8668
 SGB 2042.5 R23 .1223 R13 -.9723
 SG1 1977.1 SG2 512.7 THA 124.55

ORBIT DETERMINATION ACCURACY

ST 699.1 SR 638.6 SS 932.2
 CRT -.9887 CRS .9955 CST -.9721
 LSA 1322.1 MSA 132.1 SSA 17.4
 EL1 944.2 EL2 71.0 ALF 137.62

LAUNCH DATE FEB 18 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 315.478

RL 147.87 LAL .00 LOL 149.17 VL 28.028 GAL -6.82 AZL 93.72 MCA 145.51 SMA 131.47 ECC .17165 INC 3.7217 V1 30.131
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.782 GAP .36 AZP 86.93 TAL 216.98 TAP 2.49 RCA 108.90 APO 154.03 V2 34.793
 RC 93.644 GL -22.40 GP 53.37 ZAL 141.18 ZAP 92.11 ETS 5.90 ZAE 125.88 ETE 105.90 ZAC 93.15 ETC 153.95 CLP -93.55

PLANETOCENTRIC CONIC

C3 22.465 VHL 4.740 DLA -19.79 RAL 10.86 RAD 6567.9 VEL 11.993 PTH 2.14 VHP 4.702 DPA 52.18 RAP 348.81 ECC 1.3697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 1 13 1573.49 -1.60 4.00 233.87 118.31 5 27 27 973.5 3.19 357.37
 90.00 11 25 4 5555.20 28.29 258.91 241.63 91.26 12 57 39 4955.2 28.17 250.24
 100.00 6 10 1 1351.47 -2.00 346.91 233.09 119.83 6 32 33 751.5 1.98 340.39
 100.00 12 58 57 5252.45 29.89 236.65 241.65 89.77 14 26 29 4652.5 29.54 227.86
 110.00 6 51 19 1222.08 -5.46 334.95 230.94 123.80 7 11 41 622.1 -0.99 328.72
 110.00 14 34 9 4954.60 33.96 213.85 241.46 85.84 15 56 44 4354.6 33.01 204.74

DIFFERENTIAL CORRECTIONS

TDE -.6830 TRA -.5728 TC3 -.9046 BAU .5464
 ROE .6119 RRA .2227 RC3 1.5785 FAU .08671
 FDE-1.9686 FRA -.3293 FC3-3.3418 BSP 6573
 BOE .9170 BRA .6146 BC3 1.8193 FSP -1094

MID-COURSE EXECUTION ACCURACY

SGT 1399.5 SGR 1693.5 SG3 344.3
 RRT -.8879 RRF -.9812 RTF .8953
 SGB 2196.9 R23 .1343 R13 -.9734
 SG1 2136.9 SG2 510.2 THA 128.90

ORBIT DETERMINATION ACCURACY

ST 855.1 SR 746.0 SS 968.9
 CRT -.9890 CRS .9979 CST -.9784
 LSA 1485.9 MSA 134.5 SSA 14.7
 EL1 1131.6 EL2 83.5 ALF 138.94

LAUNCH DATE FEB 18 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 321.707

RL 147.87 LAL .00 LOL 149.17 VL 28.011 GAL -6.72 AZL 94.33 MCA 148.65 SMA 131.35 ECC .17116 INC 4.3284 V1 30.131
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.767 GAP .74 AZP 86.30 TAL 216.40 TAP 5.05 RCA 108.87 APO 153.83 V2 34.789
 RC 96.038 GL -25.74 GP 55.85 ZAL 138.85 ZAP 95.00 ETS 10.45 ZAE 122.71 ETE 110.19 ZAC 90.84 ETC 155.69 CLP -98.93

PLANETOCENTRIC CONIC

C3 23.369 VHL 4.834 DLA -22.53 RAL 13.03 RAD 6567.9 VEL 12.031 PTH 2.15 VHP 4.960 DPA 53.18 RAP 344.50 ECC 1.3846
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 32 1460.65 3.03 357.71 237.71 118.17 6 7 53 860.7 6.78 351.03
 90.00 11 0 1 5687.24 27.72 268.52 245.52 96.04 12 34 48 5087.2 28.26 259.89
 100.00 6 48 19 1251.57 1.39 341.43 236.80 119.86 7 9 11 651.6 5.35 334.88
 100.00 12 37 55 5371.56 29.60 245.49 245.71 94.41 14 7 27 4771.6 29.89 236.70
 110.00 7 22 30 1144.42 -2.51 330.88 234.36 124.10 7 41 34 544.4 1.98 324.67
 110.00 14 20 14 5051.47 34.18 221.40 245.93 90.31 15 44 25 4451.5 33.85 212.17

DIFFERENTIAL CORRECTIONS

TDE -.8564 TRA -.5732 TC3-1.0434 BAU .5792
 ROE .7229 RRA .1601 RC3 1.5324 FAU .07778
 FDE-1.9758 FRA -.1935 FC3-2.8813 BSP 7129
 BOE 1.1207 BRA .5952 BC3 1.8539 FSP -1007

MID-COURSE EXECUTION ACCURACY

SGT 1609.0 SGR 1723.8 SG3 315.2
 RRT -.9069 RRF -.9836 RTF .9149
 SGB 2358.0 R23 .1437 R13 -.9746
 SG1 2302.8 SG2 507.4 THA 132.83

ORBIT DETERMINATION ACCURACY

ST 1039.1 SR 860.2 SS 1004.8
 CRT -.9897 CRS .9991 CST -.9834
 LSA 1676.4 MSA 137.6 SSA 12.3
 EL1 1345.6 EL2 95.3 ALF 140.44

LAUNCH DATE FEB 18 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 327.909

RL 147.87 LAL .00 LOL 149.17 VL 27.991 GAL -6.60 AZL 95.06 MCA 151.79 SMA 131.20 ECC .17075 INC 5.0552 V1 30.131
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.750 GAP 1.10 AZP 85.54 TAL 215.74 TAP 7.53 RCA 108.80 APO 153.60 V2 34.787
 RC 98.436 GL -29.50 GP 58.48 ZAL 136.06 ZAP 97.39 ETS 15.24 ZAE 119.36 ETE 114.17 ZAC 88.63 ETC 157.50 CLP -104.24

PLANETOCENTRIC CONIC

C3 24.750 VHL 4.975 DLA -25.57 RAL 15.59 RAD 6568.0 VEL 12.088 PTH 2.16 VHP 5.298 DPA 54.28 RAP 340.02 ECC 1.4073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 51 1303.85 8.01 348.87 243.09 117.25 7 4 35 703.8 11.60 342.03
 90.00 10 21 11 5872.18 25.70 281.66 249.70 102.32 11 59 4 5272.2 27.14 273.29
 100.00 7 39 8 1122.14 5.75 334.29 241.86 119.39 7 57 50 522.1 9.62 327.65
 100.00 12 7 36 5529.12 28.22 256.99 250.27 100.30 13 39 45 4929.1 29.35 248.37
 110.00 8 1 17 1052.63 1.00 326.09 238.92 124.17 8 18 49 452.6 5.48 319.86
 110.00 14 1 56 5171.40 33.74 230.73 251.18 95.81 15 28 7 4571.4 34.18 221.52

DIFFERENTIAL CORRECTIONS

TDE-1.0720 TRA -.5527 TC3-1.1440 BAU .6084
 ROE .8423 RRA .0807 RC3 1.4394 FAU .06798
 FDE-1.9581 FRA -.0569 FC3-2.3778 BSP 7642
 BOE 1.3634 BRA .5586 BC3 1.8386 FSP -902

MID-COURSE EXECUTION ACCURACY

SGT 1821.5 SGR 1732.9 SG3 282.5
 RRT -.9189 RRF -.9856 RTF .9284
 SGB 2514.1 R23 .1525 R13 -.9754
 SG1 2462.8 SG2 505.5 THA 136.55

ORBIT DETERMINATION ACCURACY

ST 1253.1 SR 971.5 SS 1032.8
 CRT -.9904 CRS .9997 CST -.9872
 LSA 1887.0 MSA 141.5 SSA 10.0
 EL1 1582.1 EL2 106.5 ALF 142.28

LAUNCH DATE FEB 18 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 334.082

RL 147.87 LAL .00 LOL 149.17 VL 27.968 GAL -6.48 AZL 95.95 MCA 154.93 SMA 131.03 ECC .17041 INC 5.9473 V1 30.131
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.731 GAP 1.44 AZP 84.61 TAL 215.00 TAP 9.93 RCA 108.70 APO 153.36 V2 34.785
 RC 100.837 GL -33.74 GP 61.31 ZAL 132.76 ZAP 99.23 ETS 20.34 ZAE 115.82 ETE 117.96 ZAC 86.48 ETC 159.46 CLP -109.52

PLANETOCENTRIC CONIC

C3 26.876 VHL 5.184 DLA -28.94 RAL 18.67 RAD 6568.1 VEL 12.176 PTH 2.19 VHP 5.739 DPA 55.52 RAP 335.21 ECC 1.4423
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.75 7 52 19 1132.45 18.19 341.27 252.18 112.91 8 11 12 532.4 21.14 333.79
 96.25 9 36 14 796.28 18.21 316.63 252.19 112.89 9 49 30 196.3 21.15 309.15
 100.00 9 2 25 905.03 12.79 322.03 249.56 117.25 9 17 30 305.0 16.34 315.03
 100.00 11 8 49 5786.97 23.78 274.83 254.46 108.66 12 45 16 5187.0 26.11 266.81
 110.00 8 52 18 936.85 5.41 320.03 245.16 123.80 9 7 55 336.8 9.82 313.70
 110.00 13 35 25 5327.92 32.03 242.61 257.07 102.64 15 4 13 4727.9 33.44 233.66

DIFFERENTIAL CORRECTIONS

TDE-1.3462 TRA -.5045 TC3-1.1932 BAU .6342
 ROE .9744 RRA -.0148 RC3 1.3006 FAU .05792
 FDE-1.9231 FRA .0696 FC3-1.8659 BSP 8180
 BOE 1.6618 BRA .5048 BC3 1.7651 FSP -795

MID-COURSE EXECUTION ACCURACY

SGT 2037.2 SGR 1725.9 SG3 248.4
 RRT -.9268 RRF -.9873 RTF .9389
 SGB 2670.0 R23 .1591 R13 -.9764
 SG1 2622.1 SG2 503.5 THA 140.10

ORBIT DETERMINATION ACCURACY

ST 1500.5 SR 1077.7 SS 1054.3
 CRT -.9911 CRS .9999 CST -.9902
 LSA 2122.1 MSA 145.3 SSA 8.0
 EL1 1843.7 EL2 116.8 ALF 144.39

LAUNCH DATE FEB 18 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 340.226

RL 147.87 LAL .00 LOL 149.17 VL 27.942 GAL -6.35 AZL 97.08 HCA 158.06 SMA 130.85 ECC .17012 INC 7.0759 V1 30.131
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.710 GAP 1.77 AZP 83.43 TAL 214.18 TAP 12.24 RCA 108.59 APO 153.11 V2 34.784
 RC 103.240 GL -38.48 GP 64.44 ZAL 128.89 ZAP 100.48 ETS 25.86 ZAE 112.04 ETE 121.76 ZAC 84.34 ETC 161.71 CLP-114.93

PLANETOCENTRIC CONIC

C3 30.221 VHL 5.497 DLA -32.63 RAL 22.38 RAD 6568.2 VEL 12.312 PTH 2.22 VHP 6.324 DPA 56.86 RAP 329.82 ECC 1.4974
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.07 6 48 35 1410.97 19.47 2.74 258.84 116.71 7 12 6 811.0 22.90 355.40
 106.93 11 9 35 5864.39 19.49 278.71 258.85 116.70 12 47 19 5264.4 22.91 271.37
 73.07 6 48 35 1410.97 19.47 2.74 258.84 116.71 7 12 6 811.0 22.90 355.40
 106.93 11 9 35 5864.39 19.49 278.71 258.85 116.70 12 47 19 5264.4 22.91 271.37
 110.00 10 10 57 757.30 12.09 310.41 254.51 122.22 10 23 34 157.3 16.26 303.78
 110.00 12 46 24 5566.06 27.22 259.46 262.62 111.52 14 19 10 4966.1 29.90 251.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.7035 TRA -.4161 TC3-1.1764 BAU .6534 SGT 2256.2 SGR 1692.4 SG3 213.4 ST 1782.6 SR 1163.2 SS 1064.7
 RDE 1.1145 RRA -.1327 RC3 1.1095 FAU .04772 RRT -.9312 RRF -.9885 RTF .9477 CRT -.9916 CRS .9999 CST -.9925
 FDE-1.8681 FRA .1864 FC3-1.3669 BSP 8681 SGB 2820.4 R23 .1636 R13 -.9777 LSA 2375.3 MSA 149.0 SSA 6.3
 BDE 2.0357 BRA .4368 BC3 1.6171 FSP -682 SGI 2775.4 SG2 501.7 THA 143.69 EL1 2124.8 EL2 126.0 ALF 146.96

LAUNCH DATE FEB 18 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 346.338

RL 147.87 LAL .00 LOL 149.17 VL 27.913 GAL -6.20 AZL 98.56 HCA 161.18 SMA 130.64 ECC .16989 INC 8.5579 V1 30.131
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.689 GAP 2.09 AZP 81.89 TAL 213.29 TAP 14.46 RCA 108.45 APO 152.83 V2 34.783
 RC 105.643 GL -43.72 GP 67.94 ZAL 124.44 ZAP 101.09 ETS 32.09 ZAE 107.93 ETE 125.93 ZAC 82.11 ETC 164.59 CLP-120.81

PLANETOCENTRIC CONIC

C3 35.693 VHL 5.974 DLA -36.56 RAL 26.91 RAD 6568.4 VEL 12.532 PTH 2.27 VHP 7.123 DPA 58.25 RAP 323.48 ECC 1.5874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.83 6 23 56 1582.61 20.15 16.60 267.24 121.18 6 50 19 982.6 24.13 9.52
 114.17 12 10 25 5776.58 20.17 272.23 267.25 121.17 13 46 41 5176.6 24.14 265.15
 65.83 6 23 56 1582.61 20.15 16.60 267.24 121.18 6 50 19 982.6 24.13 9.52
 114.17 12 10 25 5776.58 20.17 272.23 267.25 121.17 13 46 41 5176.6 24.14 265.15
 65.83 6 23 56 1582.61 20.15 16.60 267.24 121.18 6 50 19 982.6 24.13 9.52
 114.17 12 10 25 5776.58 20.17 272.23 267.25 121.17 13 46 41 5176.6 24.14 265.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.1861 TRA -.2661 TC3-1.0821 BAU .6628 SGT 2483.5 SGR 1622.2 SG3 178.9 ST 2099.0 SR 1204.8 SS 1063.1
 RDE 1.2516 RRA -.2750 RC3 .8710 FAU .03776 RRT -.9327 RRF -.9887 RTF .9566 CRT -.9919 CRS .9997 CST -.9945
 FDE-1.7976 FRA .2885 FC3 -.9158 BSP 9178 SGB 2966.4 R23 .1633 R13 -.9798 LSA 2639.1 MSA 151.2 SSA 4.8
 BDE 2.5190 BRA .3827 BC3 1.3890 FSP -571 SGI 2924.5 SG2 496.9 THA 147.60 EL1 2416.5 EL2 133.1 ALF 150.25

LAUNCH DATE FEB 18 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 352.413

RL 147.87 LAL .00 LOL 149.17 VL 27.882 GAL -6.05 AZL 100.60 HCA 164.28 SMA 130.42 ECC .16970 INC10.6021 V1 30.131
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.666 GAP 2.39 AZP 79.79 TAL 212.32 TAP 16.60 RCA 108.29 APO 152.55 V2 34.783
 RC 108.045 GL -49.38 GP 71.91 ZAL 119.40 ZAP 101.02 ETS 39.70 ZAE 103.38 ETE 131.26 ZAC 79.66 ETC 168.87 CLP-128.01

PLANETOCENTRIC CONIC

C3 45.177 VHL 6.721 DLA -40.56 RAL 32.50 RAD 6568.7 VEL 12.905 PTH 2.35 VHP 8.263 DPA 59.52 RAP 315.71 ECC 1.7435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.65 6 15 58 1729.23 19.74 28.44 277.70 126.19 6 44 47 1129.2 24.32 21.78
 120.35 13 2 55 5748.89 19.75 269.65 277.71 126.18 14 38 44 5148.9 24.33 262.98
 59.65 6 15 58 1729.23 19.74 28.44 277.70 126.19 6 44 47 1129.2 24.32 21.78
 120.35 13 2 55 5748.89 19.75 269.65 277.71 126.18 14 38 44 5148.9 24.33 262.98
 59.65 6 15 58 1729.23 19.74 28.44 277.70 126.19 6 44 47 1129.2 24.32 21.78
 120.35 13 2 55 5748.89 19.75 269.65 277.71 126.18 14 38 44 5148.9 24.33 262.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.8687 TRA -.0106 TC3 -.9059 BAU .6542 SGT 2731.9 SGR 1475.2 SG3 145.7 ST 2445.7 SR 1146.3 SS 1047.3
 RDE 1.3329 RRA -.4440 RC3 .5938 FAU .02820 RRT -.9292 RRF -.9856 RTF .9666 CRT -.9913 CRS .9990 CST -.9961
 FDE-1.7141 FRA .3787 FC3 -.5404 BSP 9638 SGB 3104.8 R23 .1567 R13 -.9827 LSA 2893.0 MSA 151.0 SSA 3.6
 BDE 3.1633 BRA .4441 BC3 1.0832 FSP -462 SGI 3066.5 SG2 485.9 THA 152.61 EL1 2697.5 EL2 137.1 ALF 155.01

LAUNCH DATE FEB 18 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 358.439

RL 147.87 LAL .00 LOL 149.17 VL 27.849 GAL -5.87 AZL 103.62 HCA 167.35 SMA 130.18 ECC .16952 INC13.6157 V1 30.131
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.643 GAP 2.67 AZP 76.70 TAL 211.27 TAP 18.62 RCA 108.12 APO 152.25 V2 34.784
 RC 110.446 GL -55.17 GP 76.38 ZAL 113.86 ZAP 100.24 ETS 50.57 ZAE 98.16 ETE 139.73 ZAC 76.76 ETC 176.53 CLP-139.07

PLANETOCENTRIC CONIC

C3 63.123 VHL 7.945 DLA -44.25 RAL 39.34 RAD 6569.2 VEL 13.582 PTH 2.48 VHP 9.994 DPA 60.31 RAP 305.95 ECC 2.0389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.46 6 21 39 1870.77 17.59 39.07 290.34 131.28 6 52 49 1270.8 22.75 32.97
 125.54 13 51 52 5772.66 17.60 269.91 290.35 131.28 15 28 5 5172.7 22.77 263.82
 54.46 6 21 39 1870.77 17.59 39.07 290.34 131.28 6 52 49 1270.8 22.75 32.97
 125.54 13 51 52 5772.66 17.60 269.91 290.35 131.28 15 28 5 5172.7 22.77 263.82
 54.46 6 21 39 1870.77 17.59 39.07 290.34 131.28 6 52 49 1270.8 22.75 32.97
 125.54 13 51 52 5772.66 17.60 269.91 290.35 131.28 15 28 5 5172.7 22.77 263.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.8899 TRA .4478 TC3 -.6567 BAU .6111 SGT 3026.8 SGR 1142.0 SG3 115.2 ST 2808.7 SR 856.7 SS 1023.0
 RDE 1.1606 RRA -.6030 RC3 .3052 FAU .01931 RRT -.9048 RRF -.9660 RTF .9788 CRT -.9862 CRS .9953 CST -.9976
 FDE-1.6313 FRA .4609 FC3 -.2648 BSP 10096 SGB 3235.0 R23 .1396 R13 -.9870 LSA 3106.1 MSA 145.9 SSA 2.7
 BDE 4.0594 BRA .7511 BC3 .7241 FSP -365 SGI 3202.2 SG2 459.7 THA 160.74 EL1 2933.3 EL2 135.7 ALF 163.22

LAUNCH DATE FEB 18 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 27.815 GAL -5.68 AZL 108.50 MCA 170.37 SMA 129.94 ECC .16930 INC18.5027 V1 30.131
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.619 GAP 2.93 AZP 71.74 TAL 210.11 TAP 20.49 RCA 107.94 APO 151.94 V2 34.786
 RC 112.844 GL -60.46 GP 80.88 ZAL 107.98 ZAP 98.75 ETS 70.82 ZAE 91.82 ETE 157.61 ZAC 72.97 ETC 193.91 CLP -163.78

PLANETOCENTRIC CONIC
 C3 101.938 VHL 10.096 DLA -46.87 RAL 47.47 RAD 6570.0 VEL 14.943 PTH 2.69 VHP 12.869 OPA 59.88 RAP 293.70 ECC 2.6776
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.95 6 41 2 2013.69 13.19 48.05 304.77 135.40 7 14 35 1413.7 18.81 42.54
 129.05 14 37 19 5848.37 13.20 272.64 304.79 135.39 16 14 48 5248.4 18.82 267.13
 50.95 6 41 2 2013.69 13.19 48.05 304.77 135.40 7 14 35 1413.7 18.81 42.54
 129.05 14 37 19 5848.37 13.20 272.64 304.79 135.39 16 14 48 5248.4 18.82 267.13
 50.95 6 41 2 2013.69 13.19 48.05 304.77 135.40 7 14 35 1413.7 18.81 42.54
 129.05 14 37 19 5848.37 13.20 272.64 304.79 135.39 16 14 48 5248.4 18.82 267.13

DIFFERENTIAL CORRECTIONS
 TOE-5.3648 TRA 1.3434 TC3 -.3494 BAU .4823
 RDE -.2094 RRA -.4813 RC3 .0564 FAU .01075
 FDE-1.5781 FRA .5604 FC3 -.0913 BSP 10407
 BDE 5.3689 BRA 1.4270 BC3 .3539 FSP -279

MID-COURSE EXECUTION ACCURACY
 SGT 3318.1 SGR 432.1 SG3 88.6
 RRT -.1144 RRF -.2265 RTF .9916
 SGB 3346.1 R23 .1119 R13 -.9918
 SG1 3318.5 SG2 429.2 THA 179.13

ORBIT DETERMINATION ACCURACY
 ST 3062.8 SR 168.8 SS 1007.8
 CRT .6221 CRS -.5861 CST -.9990
 LSA 3225.8 MSA 139.4 SSA 2.0
 EL1 3064.6 EL2 132.1 ALF 1.97

LAUNCH DATE FEB 18 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 27.778 GAL -5.46 AZL 117.65 MCA 173.27 SMA 129.68 ECC .16891 INC27.6550 V1 30.131
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.594 GAP 3.14 AZP 62.51 TAL 208.80 TAP 22.06 RCA 107.78 APO 151.59 V2 34.789
 RC 115.239 GL -63.55 GP 81.08 ZAL 102.09 ZAP 96.61 ETS 115.72 ZAE 83.23 ETE 200.25 ZAC 67.21 ETC 236.70 CLP 137.94

PLANETOCENTRIC CONIC
 C3 205.515 VHL 14.336 DLA -46.87 RAL 56.09 RAD 6571.2 VEL 18.079 PTH 3.01 VHP 18.323 OPA 56.64 RAP 279.08 ECC 4.3823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.95 7 15 25 2142.07 6.90 53.68 319.56 136.48 7 51 7 1542.1 12.66 48.46
 129.05 15 11 43 688.68 6.92 300.37 319.58 136.48 15 23 12 88.7 12.68 295.15
 50.95 7 15 25 2142.07 6.90 53.68 319.56 136.48 7 51 7 1542.1 12.66 48.46
 129.05 15 11 43 688.68 6.92 300.37 319.58 136.48 15 23 12 88.7 12.68 295.15
 50.95 7 15 25 2142.07 6.90 53.68 319.56 136.48 7 51 7 1542.1 12.66 48.46
 129.05 15 11 43 688.68 6.92 300.37 319.58 136.48 15 23 12 88.7 12.68 295.15

DIFFERENTIAL CORRECTIONS
 TOE-4.5198 TRA 2.4551 TC3 -.0538 BAU .1498
 RDE-5.9542 RRA 1.4081 RC3 .0087 FAU .00079
 FDE-1.6424 FRA .7454 FC3 -.0033 BSP 10743
 BDE 7.4754 BRA 2.8303 BC3 .0545 FSP -216

MID-COURSE EXECUTION ACCURACY
 SGT 2312.4 SGR 2518.2 SG3 68.1
 RRT .9405 RRF .9679 RTF .9949
 SGB 3418.9 R23 -.0934 R13 .9950
 SG1 3368.0 SG2 587.5 THA 47.59

ORBIT DETERMINATION ACCURACY
 ST 1857.1 SR 2392.5 SS 1059.6
 CRT .9915 CRS -.9957 CST -.9993
 LSA 3202.6 MSA 196.5 SSA 1.3
 EL1 3022.6 EL2 191.5 ALF 52.24

LAUNCH DATE FEB 18 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 27.741 GAL -5.13 AZL 138.71 MCA 175.75 SMA 129.42 ECC .16786 INC48.7089 V1 30.131
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.569 GAP 3.23 AZP 41.37 TAL 207.08 TAP 22.83 RCA 107.69 APO 151.14 V2 34.792
 RC 117.630 GL -59.49 GP 69.34 ZAL 96.78 ZAP 94.08 ETS 159.43 ZAE 68.86 ETE 241.64 ZAC 56.20 ETC 280.71 CLP 101.64

PLANETOCENTRIC CONIC
 C3 580.598 VHL 24.096 DLA -40.23 RAL 62.34 RAD 6572.5 VEL 26.493 PTH 3.38 VHP 30.615 OPA 46.42 RAP 263.50 ECC10.5552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.14 8 17 14 2157.26 1.11 49.56 331.01 130.22 8 53 11 1557.3 6.26 43.84
 119.86 14 59 45 901.30 1.13 313.92 331.02 130.22 15 14 46 301.3 6.28 308.20
 60.14 8 17 14 2157.26 1.11 49.56 331.01 130.22 8 53 11 1557.3 6.26 43.84
 119.86 14 59 45 901.30 1.13 313.92 331.02 130.22 15 14 46 301.3 6.28 308.20
 60.14 8 17 14 2157.26 1.11 49.56 331.01 130.22 8 53 11 1557.3 6.26 43.84
 119.86 14 59 45 901.30 1.13 313.92 331.02 130.22 15 14 46 301.3 6.28 308.20

DIFFERENTIAL CORRECTIONS
 TOE 1.8490 TRA 1.5404 TC3 -.0281 BAU 1.3392
 RD-10.8226 RRA 5.9030 RC3 .1702 FAU-.02129
 FDE-2.0146 FRA 1.2725 FC3 .0317 BSP 10320
 BDE10.9794 BRA 6.1007 BC3 .1725 FSP -176

MID-COURSE EXECUTION ACCURACY
 SGT 664.7 SGR 3267.4 SG3 55.3
 RRT -.1660 RRF .9976 RTF -.0968
 SGB 3334.3 R23 -.0768 R13 .9970
 SG1 3269.3 SG2 655.1 THA 92.02

ORBIT DETERMINATION ACCURACY
 ST 462.6 SR 2632.0 SS 1305.6
 CRT -.8641 CRS -.9995 CST .8475
 LSA 2964.9 MSA 236.3 SSA .4
 EL1 2662.4 EL2 230.2 ALF 98.70

LAUNCH DATE FEB 18 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 27.702 GAL -5.87 AZL 6.36 MCA 183.27 SMA 129.14 ECC .17681 INC83.6408 V1 30.131
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.544 GAP 4.76 AZP 173.63 TAL 209.46 TAP 32.73 RCA 106.31 APO 151.98 V2 34.796
 RC 120.015 GL 45.13 GP -50.88 ZAL 94.74 ZAP 93.82 ETS 179.51 ZAE 53.62 ETE 100.96 ZAC 67.36 ETC 63.98 CLP 96.07

PLANETOCENTRIC CONIC
 C31493.407 VHL 38.645 DLA 60.77 RAL 28.25 RAD 6573.2 VEL 40.183 PTH 3.56 VHP 47.827 OPA -68.20 RAP 214.82 ECC25.5777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.69 16 31 35 5058.51 1.27 241.48 298.98 29.24 17 55 54 4458.5 -5.71 237.99
 146.31 2 13 28 3381.97 1.28 103.59 298.96 29.24 3 9 50 2782.0 -5.70 100.09
 33.69 16 31 35 5058.51 1.27 241.48 298.98 29.24 17 55 54 4458.5 -5.71 237.99
 146.31 2 13 28 3381.97 1.28 103.59 298.96 29.24 3 9 50 2782.0 -5.70 100.09
 33.69 16 31 35 5058.51 1.27 241.48 298.98 29.24 17 55 54 4458.5 -5.71 237.99
 146.31 2 13 28 3381.97 1.28 103.59 298.96 29.24 3 9 50 2782.0 -5.70 100.09

DIFFERENTIAL CORRECTIONS
 TOE-5.1121 TRA 1.8244 TC3 -.1014 BAU 4.2849
 RD-15.3845 RRA .1799 RC3 -.1892 FAU-.07051
 FDE 3.4214 FRA -.0276 FC3 .0409 BSP 8824
 BDE16.2116 BRA 1.8332 BC3 .2146 FSP -163

MID-COURSE EXECUTION ACCURACY
 SGT 1222.7 SGR 2709.9 SG3 51.6
 RRT .8766 RRF -.9999 RTF -.8711
 SGB 2973.0 R23 -.0878 R13 -.9961
 SG1 2922.5 SG2 545.6 THA 67.60

ORBIT DETERMINATION ACCURACY
 ST 776.3 SR 2281.4 SS 2096.6
 CRT .9783 CRS 1.0000 CST .9778
 LSA 3190.4 MSA 157.1 SSA .8
 EL1 2405.0 EL2 152.7 ALF 71.51

LAUNCH DATE FEB 18 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 390.494

RL 147.87 LAL .00 LOL 149.17 VL 27.661 GAL -5.33 AZL 46.90 MCA 184.83 SMA 128.86 ECC .17379 INC43.0952 VI 30.131
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.518 GAP 4.57 AZP 132.99 TAL 207.00 TAP 31.83 RCA 106.47 APO 151.26 V2 34.800
 RC 122.394 GL 60.98 GP -72.90 ZAL 97.84 ZAP 96.72 ETS 190.90 ZAE 77.13 ETE 110.72 ZAC 87.12 ETC 79.13 CLP 113.44

PLANETOCENTRIC CONIC

C3 463.032 VHL 21.518 DLA 68.99 RAL 352.75 RAD 6572.3 VEL 24.173 PTH 3.32 VHP 26.279 DPA -81.68 RAP 121.13 ECC 8.6203
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.03 13 47 36 5028.65 -2.77 245.44 261.70 21.04 15 11 25 4428.6 -10.23 242.95
 155.97 0 14 11 3281.96 -2.76 96.63 261.67 21.04 1 8 52 2682.0 -10.22 94.14
 24.03 13 47 36 5028.65 -2.77 245.44 261.70 21.04 15 11 25 4428.6 -10.23 242.95
 155.97 0 14 11 3281.96 -2.76 96.63 261.67 21.04 1 8 52 2682.0 -10.22 94.14
 24.03 13 47 36 5028.65 -2.77 245.44 261.70 21.04 15 11 25 4428.6 -10.23 242.95
 155.97 0 14 11 3281.96 -2.76 96.63 261.67 21.04 1 8 52 2682.0 -10.22 94.14

DIFFERENTIAL CORRECTIONS

TDE .7572 TRA 1.0245 TC3 -.0468 BAU 1.0267
 RDE -9.3871 RRA 3.2489 RC3 -.1591 FAU -.01301
 FDE 1.9306 FRA -.6046 FC3 .0243 BSP 11256
 BDE 9.4176 BRA 3.4066 BC3 .1658 FSP -193

MID-COURSE EXECUTION ACCURACY

SGT 812.5 SGR 3540.8 S63 59.7
 RRT .5109 RRF -.9979 RTF -.4618
 SGB 3632.8 R23 -.0795 R13 -.9963
 SG1 3566.0 S62 693.5 THA 83.05

ORBIT DETERMINATION ACCURACY

ST 304.6 SR 2602.2 SS 1206.6
 CRT -.4272 CRS .9997 CST -.4502
 LSA 2871.3 MSA 275.9 SSA 1.5
 EL1 2605.5 EL2 275.1 ALF 92.89

LAUNCH DATE FEB 18 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 395.975

RL 147.87 LAL .00 LOL 149.17 VL 27.620 GAL -5.02 AZL 63.45 MCA 187.48 SMA 128.58 ECC .17317 INC26.5535 VI 30.131
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.493 GAP 4.68 AZP 116.36 TAL 205.33 TAP 32.81 RCA 106.31 APO 150.85 V2 34.805
 RC 124.766 GL 63.33 GP -78.30 ZAL 101.65 ZAP 100.99 ETS 238.58 ZAE 89.56 ETE 157.91 ZAC 96.65 ETC 127.80 CLP 160.09

PLANETOCENTRIC CONIC

C3 189.449 VHL 13.764 DLA 66.29 RAL 340.43 RAD 6571.0 VEL 17.629 PTH 2.98 VHP 16.571 DPA -73.12 RAP 72.10 ECC 4.1179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.18 13 5 23 4910.32 -9.48 241.05 246.23 24.06 14 27 14 4310.3 -16.76 238.07
 152.82 23 14 9 3183.09 -9.47 95.64 246.22 24.06 24 7 12 2583.1 -16.75 92.67
 27.18 13 5 23 4910.32 -9.48 241.05 246.23 24.06 14 27 14 4310.3 -16.76 238.07
 152.82 23 14 9 3183.09 -9.47 95.64 246.22 24.06 24 7 12 2583.1 -16.75 92.67
 27.18 13 5 23 4910.32 -9.48 241.05 246.23 24.06 14 27 14 4310.3 -16.76 238.07
 152.82 23 14 9 3183.09 -9.47 95.64 246.22 24.06 24 7 12 2583.1 -16.75 92.67

DIFFERENTIAL CORRECTIONS

TDE 3.8939 TRA -1.8084 TC3 -.0518 BAU .1328
 RDE -2.6548 RRA 2.6418 RC3 .0082 FAU .00665
 FDE 1.2460 FRA -.6847 FC3 -.0304 BSP 12064
 BDE 4.7128 BRA 3.2015 BC3 .0524 FSP -247

MID-COURSE EXECUTION ACCURACY

SGT 2480.5 SGR 2950.0 S63 76.2
 RRT -.9450 RRF -.9658 RTF .9960
 SGB 3854.3 R23 -.1204 R13 -.9915
 SG1 3802.6 S62 629.3 THA 129.78

ORBIT DETERMINATION ACCURACY

ST 1715.5 SR 1376.4 SS 802.6
 CRT -.9538 CRS .9690 CST -.9985
 LSA 2318.0 MSA 329.5 SSA 1.8
 EL1 2175.1 EL2 326.1 ALF 141.55

LAUNCH DATE FEB 18 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 401.743

RL 147.87 LAL .00 LOL 149.17 VL 27.578 GAL -4.76 AZL 71.06 MCA 190.42 SMA 128.29 ECC .17323 INC18.9374 VI 30.131
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.468 GAP 4.88 AZP 108.65 TAL 203.85 TAP 34.28 RCA 106.07 APO 150.52 V2 34.811
 RC 127.128 GL 61.17 GP -73.93 ZAL 105.09 ZAP 105.76 ETS 282.63 ZAE 97.58 ETE 201.10 ZAC 102.23 ETC 172.07 CLP 168.84

PLANETOCENTRIC CONIC

C3 103.663 VHL 10.182 DLA 62.79 RAL 340.71 RAD 6570.0 VEL 15.000 PTH 2.70 VHP 12.141 DPA -65.29 RAP 58.73 ECC 2.7060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.30 13 16 6 4783.00 -15.95 234.94 242.27 28.40 14 35 49 4183.0 -22.94 231.24
 148.70 23 5 41 3086.17 -15.93 94.21 242.25 28.40 23 57 7 2486.2 -22.93 90.50
 31.30 13 16 6 4783.00 -15.95 234.94 242.27 28.40 14 35 49 4183.0 -22.94 231.24
 148.70 23 5 41 3086.17 -15.93 94.21 242.25 28.40 23 57 7 2486.2 -22.93 90.50
 31.30 13 16 6 4783.00 -15.95 234.94 242.27 28.40 14 35 49 4183.0 -22.94 231.24
 148.70 23 5 41 3086.17 -15.93 94.21 242.25 28.40 23 57 7 2486.2 -22.93 90.50

DIFFERENTIAL CORRECTIONS

TDE 3.3003 TRA -2.7645 TC3 -.3479 BAU .4822
 RDE .3718 RRA .4244 RC3 -.0048 FAU .01781
 FDE 1.1585 FRA -.7216 FC3 -.1487 BSP 12517
 BDE 3.3212 BRA 2.7968 BC3 .3479 FSP -323

MID-COURSE EXECUTION ACCURACY

SGT 3940.1 SGR 562.7 S63 98.7
 RRT -.6230 RRF -.5046 RTF .9877
 SGB 3980.1 R23 -.1514 R13 -.9863
 SG1 3955.9 S62 438.4 THA 174.85

ORBIT DETERMINATION ACCURACY

ST 2119.3 SR 261.4 SS 738.8
 CRT .4128 CRS -.5142 CST -.9934
 LSA 2245.7 MSA 249.5 SSA 2.2
 EL1 2122.1 EL2 237.8 ALF 2.95

LAUNCH DATE FEB 18 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 407.602

RL 147.87 LAL .00 LOL 149.17 VL 27.535 GAL -4.51 AZL 75.31 MCA 193.47 SMA 128.00 ECC .17358 INC14.6863 VI 30.131
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.442 GAP 5.10 AZP 104.30 TAL 202.42 TAP 35.89 RCA 105.78 APO 150.22 V2 34.818
 RC 129.481 GL 57.82 GP -67.73 ZAL 107.90 ZAP 110.65 ETS 296.18 ZAE 103.67 ETE 213.19 ZAC 106.30 ETC 185.31 CLP 158.48

PLANETOCENTRIC CONIC

C3 67.608 VHL 8.222 DLA 59.59 RAL 344.10 RAD 6569.3 VEL 13.746 PTH 2.51 VHP 9.784 DPA -58.45 RAP 51.70 ECC 2.1127
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.10 13 39 2 4669.90 -21.00 228.48 241.09 32.84 14 56 51 4069.9 -27.65 224.01
 144.90 23 9 49 3006.44 -20.99 92.32 241.07 32.83 23 59 56 2406.4 -27.64 87.85
 35.10 13 39 2 4669.90 -21.00 228.48 241.09 32.84 14 56 51 4069.9 -27.65 224.01
 144.90 23 9 49 3006.44 -20.99 92.32 241.07 32.83 23 59 56 2406.4 -27.64 87.85
 35.10 13 39 2 4669.90 -21.00 228.48 241.09 32.84 14 56 51 4069.9 -27.65 224.01
 144.90 23 9 49 3006.44 -20.99 92.32 241.07 32.83 23 59 56 2406.4 -27.64 87.85

DIFFERENTIAL CORRECTIONS

TDE 2.6168 TRA -2.4668 TC3 -.7063 BAU .6488
 RDE .8316 RRA -.1489 RC3 -.1286 FAU .02691
 FDE 1.2028 FRA -.7426 FC3 -.3446 BSP 12828
 BDE 2.7458 BRA 2.4713 BC3 .7179 FSP -410

MID-COURSE EXECUTION ACCURACY

SGT 4025.5 SGR 650.0 S63 124.3
 RRT .7636 RRF .8718 RTF .9772
 SGB 4077.6 R23 .1820 R13 .9796
 SG1 4056.3 S62 416.5 THA 7.10

ORBIT DETERMINATION ACCURACY

ST 2089.0 SR 582.8 SS 754.6
 CRT .9196 CRS -.9701 CST -.9874
 LSA 2283.7 MSA 240.7 SSA 2.9
 EL1 2157.4 EL2 221.7 ALF 14.55

LAUNCH DATE FEB 18 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 413.495

RL 147.87 LAL .00 LOL 149.17 VL 27.492 GAL -4.26 AZL 78.01 MCA 196.56 SMA 127.71 ECC .17411 INC11.9879 V1 30.131
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.417 GAP 5.33 AZP 101.50 TAL 201.00 TAP 37.56 RCA 105.47 APO 149.94 V2 34.825
 RC 131.823 GL 54.29 GP -61.67 ZAL 110.06 ZAP 115.45 ETS 301.26 ZAE 108.59 ETE 216.30 ZAC 109.63 ETC 189.67 CLP-154.90

PLANETOCENTRIC CONIC

C3 49.176 VML 7.013 DLA 56.76 RAL 348.17 RAD 6568.8 VEL 13.059 PTH 2.38 VHP 8.397 DPA -52.23 RAP 47.33 ECC 1.8093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.51 14 4 12 4574.63 -24.61 222.19 240.71 37.08 15 20 27 3974.6 -30.88 217.00
 141.49 23 17 6 2945.98 -24.59 90.37 240.69 37.08 24 6 12 2346.0 -30.87 85.18
 38.51 14 4 12 4574.63 -24.61 222.19 240.71 37.08 15 20 27 3974.6 -30.88 217.00
 141.49 23 17 6 2945.98 -24.59 90.37 240.69 37.08 24 6 12 2346.0 -30.87 85.18
 38.51 14 4 12 4574.63 -24.61 222.19 240.71 37.08 15 20 27 3974.6 -30.88 217.00
 141.49 23 17 6 2945.98 -24.59 90.37 240.69 37.08 24 6 12 2346.0 -30.87 85.18

DIFFERENTIAL CORRECTIONS

TOE 2.2668 TRA-2.2130 TC3-1.1077 BAU .7464
 RDE .8324 RRA -.2568 RC3 -.2487 FAU .03515
 FDE 1.2546 FRA -.7455 FC3 -.6188 BSP 13333
 BOE 2.4148 BRA 2.2279 BC3 1.1353 FSP -509

MID-COURSE EXECUTION ACCURACY

SGT 4089.4 SGR 854.8 SG3 150.6
 RRT .8765 RRF .9564 RTF .9696
 SGB 4177.7 R23 .2039 R13 .9734
 SG1 4158.1 SG2 404.8 THA 10.48

ORBIT DETERMINATION ACCURACY

ST 2100.3 SR 689.8 SS 782.2
 CRT .9481 CRS -.9892 CST -.9845
 LSA 2333.2 MSA 235.3 SSA 3.6
 EL1 2200.8 EL2 209.3 ALF 17.46

LAUNCH DATE FEB 18 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 419.406

RL 147.87 LAL .00 LOL 149.17 VL 27.448 GAL -4.01 AZL 79.88 MCA 199.67 SMA 127.41 ECC .17476 INC10.1208 V1 30.131
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.392 GAP 5.56 AZP 99.54 TAL 199.56 TAP 39.24 RCA 105.14 APO 149.68 V2 34.833
 RC 134.153 GL 50.91 GP -56.10 ZAL 111.59 ZAP 120.02 ETS 303.81 ZAE 112.64 ETE 216.46 ZAC 112.54 ETC 191.21 CLP-153.79

PLANETOCENTRIC CONIC

C3 38.428 VML 6.199 DLA 54.29 RAL 352.28 RAD 6568.5 VEL 12.641 PTH 2.29 VHP 7.530 DPA -46.52 RAP 44.51 ECC 1.6324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.53 14 28 59 4495.08 -27.07 216.34 240.74 40.95 15 43 55 3895.1 -32.97 210.51
 138.47 23 25 7 2901.43 -27.06 88.58 240.73 40.95 24 13 28 2301.4 -32.96 82.76
 41.53 14 28 59 4495.08 -27.07 216.34 240.74 40.95 15 43 55 3895.1 -32.97 210.51
 138.47 23 25 7 2901.43 -27.06 88.58 240.73 40.95 24 13 28 2301.4 -32.96 82.76
 41.53 14 28 59 4495.08 -27.07 216.34 240.74 40.95 15 43 55 3895.1 -32.97 210.51
 138.47 23 25 7 2901.43 -27.06 88.58 240.73 40.95 24 13 28 2301.4 -32.96 82.76

DIFFERENTIAL CORRECTIONS

TOE 2.1288 TRA-1.9489 TC3-1.4713 BAU .7726
 RDE .7835 RRA -.2190 RC3 -.3114 FAU .03970
 FDE 1.3378 FRA -.6658 FC3 -.8943 BSP 12081
 BOE 2.2684 BRA 1.9612 BC3 1.5039 FSP -493

MID-COURSE EXECUTION ACCURACY

SGT 4089.5 SGR 891.0 SG3 170.0
 RRT .8781 RRF .9638 RTF .9583
 SGB 4185.4 R23 .2369 R13 .9631
 SG1 4164.4 SG2 418.6 THA 10.94

ORBIT DETERMINATION ACCURACY

ST 2175.2 SR 731.7 SS 830.6
 CRT .9562 CRS -.9942 CST -.9821
 LSA 2428.9 MSA 239.0 SSA 4.4
 EL1 2285.9 EL2 203.9 ALF 17.98

LAUNCH DATE FEB 18 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 425.309

RL 147.87 LAL .00 LOL 149.17 VL 27.404 GAL -3.75 AZL 81.25 MCA 202.81 SMA 127.11 ECC .17557 INC 8.7474 V1 30.131
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.367 GAP 5.80 AZP 98.07 TAL 198.12 TAP 40.92 RCA 104.80 APO 149.43 V2 34.841
 RC 136.471 GL 47.75 GP -51.07 ZAL 112.55 ZAP 124.31 ETS 305.39 ZAE 115.95 ETE 215.40 ZAC 115.15 ETC 191.60 CLP-153.75

PLANETOCENTRIC CONIC

C3 31.560 VML 5.618 DLA 52.15 RAL 356.28 RAD 6568.3 VEL 12.367 PTH 2.23 VHP 6.971 DPA -41.30 RAP 42.71 ECC 1.5194
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.19 14 52 48 4428.04 -28.71 211.01 241.10 44.40 16 6 36 3828.0 -34.25 204.66
 135.81 23 33 12 2869.09 -28.69 87.05 241.09 44.39 24 21 1 2269.1 -34.24 80.71
 44.19 14 52 48 4428.04 -28.71 211.01 241.10 44.40 16 6 36 3828.0 -34.25 204.66
 135.81 23 33 12 2869.09 -28.69 87.05 241.09 44.39 24 21 1 2269.1 -34.24 80.71
 44.19 14 52 48 4428.04 -28.71 211.01 241.10 44.40 16 6 36 3828.0 -34.25 204.66
 135.81 23 33 12 2869.09 -28.69 87.05 241.09 44.39 24 21 1 2269.1 -34.24 80.71

DIFFERENTIAL CORRECTIONS

TOE 1.9532 TRA-1.8190 TC3-1.9547 BAU .8418
 RDE .6820 RRA -.2056 RC3 -.3994 FAU .04669
 FDE 1.3152 FRA -.6436 FC3-1.2808 BSP 13470
 BOE 2.0688 BRA 1.8305 BC3 1.9951 FSP -635

MID-COURSE EXECUTION ACCURACY

SGT 4234.5 SGR 895.5 SG3 193.5
 RRT .8977 RRF .9696 RTF .9561
 SGB 4328.2 R23 .2360 R13 .9603
 SG1 4310.8 SG2 387.6 THA 10.84

ORBIT DETERMINATION ACCURACY

ST 2189.8 SR 703.2 SS 831.1
 CRT .9608 CRS -.9960 CST -.9816
 LSA 2434.9 MSA 227.2 SSA 5.5
 EL1 2292.4 EL2 186.3 ALF 17.26

LAUNCH DATE FEB 18 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 431.212

RL 147.87 LAL .00 LOL 149.17 VL 27.359 GAL -3.48 AZL 82.31 MCA 205.95 SMA 126.82 ECC .17649 INC 7.6903 V1 30.131
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.343 GAP 6.03 AZP 96.92 TAL 196.65 TAP 42.60 RCA 104.43 APO 149.20 V2 34.850
 RC 138.775 GL 44.84 GP -46.57 ZAL 113.00 ZAP 128.25 ETS 306.55 ZAE 118.66 ETE 213.79 ZAC 117.58 ETC 191.47 CLP-154.23

PLANETOCENTRIC CONIC

C3 26.856 VML 5.182 DLA 50.30 RAL .17 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 6.607 DPA -36.54 RAP 41.64 ECC 1.4420
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.52 15 15 33 4370.98 -29.79 206.25 241.81 47.39 16 28 24 3771.0 -35.01 199.48
 133.48 23 41 28 2845.42 -29.78 85.78 241.79 47.38 24 28 54 2245.4 -35.00 79.02
 46.52 15 15 33 4370.98 -29.79 206.25 241.81 47.39 16 28 24 3771.0 -35.01 199.48
 133.48 23 41 28 2845.42 -29.78 85.78 241.79 47.38 24 28 54 2245.4 -35.00 79.02
 46.52 15 15 33 4370.98 -29.79 206.25 241.81 47.39 16 28 24 3771.0 -35.01 199.48
 133.48 23 41 28 2845.42 -29.78 85.78 241.79 47.38 24 28 54 2245.4 -35.00 79.02

DIFFERENTIAL CORRECTIONS

TOE 1.8558 TRA-1.6684 TC3-2.4095 BAU .8796
 RDE .6067 RRA -.1672 RC3 -.4429 FAU .05077
 FDE 1.2993 FRA -.5681 FC3-1.6366 BSP 13842
 BOE 1.9524 BRA 1.6767 BC3 2.4499 FSP -696

MID-COURSE EXECUTION ACCURACY

SGT 4334.3 SGR 862.8 SG3 210.0
 RRT .8981 RRF .9665 RTF .9514
 SGB 4419.3 R23 .2402 R13 .9552
 SG1 4403.5 SG2 373.6 THA 10.21

ORBIT DETERMINATION ACCURACY

ST 2228.5 SR 676.5 SS 837.7
 CRT .9635 CRS -.9972 CST -.9807
 LSA 2465.0 MSA 221.4 SSA 6.5
 EL1 2322.4 EL2 173.8 ALF 16.40

LAUNCH DATE FEB 18 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 437.110

RL 147.87 LAL .00 LOL 149.17 VL 27.314 GAL -3.21 AZL 83.15 MCA 209.10 SMA 126.52 ECC .17754 INC 6.8473 V1 30.131
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.319 GAP 6.27 AZP 95.99 TAL 195.16 TAP 44.26 RCA 104.06 APO 148.98 V2 34.860
 RC 141.067 GL 42.16 GP -42.59 ZAL 112.98 ZAP 131.84 ETS 307.48 ZAE 120.85 ETE 211.95 ZAC 119.87 ETC 191.10 CLP-154.98

PLANETOCENTRIC CONIC

C3 23.464 VHL 4.844 DLA 48.72 RAL 3.98 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 6.373 DPA -32.22 RAP 41.13 ECC 1.3862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.54 15 37 23 4321.89 -30.50 202.03 242.86 49.97 16 49 25 3721.9 -35.43 194.93
 131.46 23 50 4 2827.98 -30.49 84.75 242.85 49.96 24 37 12 2228.0 -35.42 77.66
 48.54 15 37 23 4321.89 -30.50 202.03 242.86 49.97 16 49 25 3721.9 -35.43 194.93
 131.46 23 50 4 2827.98 -30.49 84.75 242.85 49.96 24 37 12 2228.0 -35.42 77.66
 48.54 15 37 23 4321.89 -30.50 202.03 242.86 49.97 16 49 25 3721.9 -35.43 194.93
 131.46 23 50 4 2827.98 -30.49 84.75 242.85 49.96 24 37 12 2228.0 -35.42 77.66

DIFFERENTIAL CORRECTIONS

TDE 1.7865 TRA-1.5237 TC3-2.8654 BAU .9106
 RDE .5447 RRA -.1303 RC3 -.4653 FAU .05341
 FDE 1.2678 FRA -.4751 FC3-1.9705 BSP 14117
 BDE 1.8677 BRA 1.5292 BC3 2.9030 FSP -736

MID-COURSE EXECUTION ACCURACY

SGT 4431.0 SGR 820.3 SG3 222.3
 RRT .8944 RRF .9599 RTF .9470
 SGB 4506.2 R23 .2397 R13 .9503
 SG1 4491.7 SG2 361.9 THA 9.46

ORBIT DETERMINATION ACCURACY

ST 2268.0 SR 648.2 SS 838.2
 CRT .9659 CRS -.9980 CST -.9799
 LSA 2494.0 MSA 215.9 SSA 7.7
 EL1 2353.3 EL2 161.8 ALF 15.51

LAUNCH DATE FEB 18 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 443.000

RL 147.87 LAL .00 LOL 149.17 VL 27.269 GAL -2.92 AZL 83.84 MCA 212.25 SMA 126.22 ECC .17871 INC 6.1557 V1 30.131
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.295 GAP 6.51 AZP 95.21 TAL 193.66 TAP 45.91 RCA 103.67 APO 148.78 V2 34.870
 RC 143.344 GL 39.68 GP -39.07 ZAL 112.54 ZAP 135.11 ETS 308.26 ZAE 122.61 ETE 210.04 ZAC 122.07 ETC 190.63 CLP-155.87

PLANETOCENTRIC CONIC

C3 20.921 VHL 4.574 DLA 47.36 RAL 7.77 RAD 6567.8 VEL 11.929 PTH 2.12 VHP 6.228 DPA -28.30 RAP 41.04 ECC 1.3443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.31 15 58 32 4279.19 -30.96 198.29 244.24 52.18 17 9 52 3679.2 -35.63 190.94
 129.69 0 3 2 2815.12 -30.95 83.93 244.23 52.17 0 49 58 2215.1 -35.62 76.57
 50.31 15 58 32 4279.19 -30.96 198.29 244.24 52.18 17 9 52 3679.2 -35.63 190.94
 129.69 0 3 2 2815.12 -30.95 83.93 244.23 52.17 0 49 58 2215.1 -35.62 76.57
 50.31 15 58 32 4279.19 -30.96 198.29 244.24 52.18 17 9 52 3679.2 -35.63 190.94
 129.69 0 3 2 2815.12 -30.95 83.93 244.23 52.17 0 49 58 2215.1 -35.62 76.57

DIFFERENTIAL CORRECTIONS

TDE 1.7332 TRA-1.3839 TC3-3.3232 BAU .9389
 RDE .4939 RRA -.0987 RC3 -.4732 FAU .05492
 FDE 1.2222 FRA -.3744 FC3-2.2728 BSP 14420
 BDE 1.8021 BRA 1.3874 BC3 3.3567 FSP -766

MID-COURSE EXECUTION ACCURACY

SGT 4528.1 SGR 776.8 SG3 231.0
 RRT .8887 RRF .9504 RTF .9431
 SGB 4594.2 R23 .2336 R13 .9459
 SG1 4580.7 SG2 352.0 THA 8.72

ORBIT DETERMINATION ACCURACY

ST 2304.6 SR 621.2 SS 832.0
 CRT .9684 CRS -.9987 CST -.9791
 LSA 2518.9 MSA 210.1 SSA 8.9
 EL1 2382.1 EL2 150.0 ALF 14.69

LAUNCH DATE FEB 18 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 448.881

RL 147.87 LAL .00 LOL 149.17 VL 27.224 GAL -2.63 AZL 84.42 MCA 215.42 SMA 125.93 ECC .18001 INC 5.5750 V1 30.131
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.272 GAP 6.75 AZP 94.55 TAL 192.13 TAP 47.55 RCA 103.26 APO 148.59 V2 34.880
 RC 145.608 GL 37.36 GP -35.97 ZAL 111.72 ZAP 138.08 ETS 308.92 ZAE 124.02 ETE 208.17 ZAC 124.21 ETC 190.12 CLP-156.84

PLANETOCENTRIC CONIC

C3 18.957 VHL 4.354 DLA 46.18 RAL 11.56 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 6.147 DPA -24.75 RAP 41.29 ECC 1.3120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.86 16 19 12 4241.83 -31.25 194.99 245.96 54.08 17 29 53 3641.8 -35.70 187.43
 128.14 0 12 39 2805.60 -31.24 83.28 245.95 54.07 0 59 25 2205.6 -35.69 75.72
 51.86 16 19 12 4241.83 -31.25 194.99 245.96 54.08 17 29 53 3641.8 -35.70 187.43
 128.14 0 12 39 2805.60 -31.24 83.28 245.95 54.07 0 59 25 2205.6 -35.69 75.72
 51.86 16 19 12 4241.83 -31.25 194.99 245.96 54.08 17 29 53 3641.8 -35.70 187.43
 128.14 0 12 39 2805.60 -31.24 83.28 245.95 54.07 0 59 25 2205.6 -35.69 75.72

DIFFERENTIAL CORRECTIONS

TDE 1.6912 TRA-1.2449 TC3-3.7789 BAU .9651
 RDE .4527 RRA -.0721 RC3 -.4706 FAU .05551
 FDE 1.1672 FRA -.2702 FC3-2.5349 BSP 14722
 BDE 1.7507 BRA 1.2470 BC3 3.8081 FSP -785

MID-COURSE EXECUTION ACCURACY

SGT 4623.8 SGR 735.9 SG3 236.5
 RRT .8812 RRF .9380 RTF .9398
 SGB 4682.0 R23 .2226 R13 .9422
 SG1 4669.3 SG2 344.6 THA 8.03

ORBIT DETERMINATION ACCURACY

ST 2338.1 SR 597.3 SS 820.6
 CRT .9712 CRS -.9993 CST -.9783
 LSA 2540.7 MSA 203.9 SSA 10.2
 EL1 2409.2 EL2 138.2 ALF 13.98

LAUNCH DATE FEB 18 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 454.753

RL 147.87 LAL .00 LOL 149.17 VL 27.178 GAL -2.32 AZL 84.92 MCA 218.58 SMA 125.63 ECC .18145 INC 5.0777 V1 30.131
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.249 GAP 7.00 AZP 93.97 TAL 190.59 TAP 49.17 RCA 102.84 APO 148.43 V2 34.891
 RC 147.857 GL 35.17 GP -33.25 ZAL 110.56 ZAP 140.77 ETS 309.48 ZAE 125.15 ETE 206.40 ZAC 126.32 ETC 189.60 CLP-157.84

PLANETOCENTRIC CONIC

C3 17.408 VHL 4.172 DLA 45.16 RAL 15.40 RAD 6567.7 VEL 11.781 PTH 2.08 VHP 6.114 DPA -21.52 RAP 41.81 ECC 1.2865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.22 16 39 34 4208.88 -31.42 192.06 248.00 55.72 17 49 43 3608.9 -35.67 184.34
 126.78 0 22 54 2798.72 -31.41 82.78 247.99 55.71 1 9 33 2198.7 -35.66 75.06
 53.22 16 39 34 4208.88 -31.42 192.06 248.00 55.72 17 49 43 3608.9 -35.67 184.34
 126.78 0 22 54 2798.72 -31.41 82.78 247.99 55.71 1 9 33 2198.7 -35.66 75.06
 53.22 16 39 34 4208.88 -31.42 192.06 248.00 55.72 17 49 43 3608.9 -35.67 184.34
 126.78 0 22 54 2798.72 -31.41 82.78 247.99 55.71 1 9 33 2198.7 -35.66 75.06

DIFFERENTIAL CORRECTIONS

TDE 1.6602 TRA-1.1013 TC3-4.2235 BAU .9887
 RDE .4204 RRA -.0490 RC3 -.4595 FAU .05525
 FDE 1.1091 FRA -.1628 FC3-2.7477 BSP 14967
 BDE 1.7126 BRA 1.1023 BC3 4.2485 FSP -791

MID-COURSE EXECUTION ACCURACY

SGT 4713.7 SGR 699.5 SG3 239.4
 RRT .8710 RRF .9228 RTF .9367
 SGB 4765.3 R23 .2090 R13 .9386
 SG1 4753.1 SG2 340.8 THA 7.40

ORBIT DETERMINATION ACCURACY

ST 2371.3 SR 578.1 SS 806.9
 CRT .9744 CRS -.9996 CST -.9775
 LSA 2563.0 MSA 197.8 SSA 11.6
 EL1 2437.4 EL2 126.4 ALF 13.40

LAUNCH DATE FEB 18 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 460.613

RL 147.87 LAL .00 LOL 149.17 VL 27.133 GAL -2.01 AZL 85.36 HCA 221.75 SMA 125.34 ECC .18303 INC 4.6447 V1 30.131
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.226 GAP 7.24 AZP 93.47 TAL 189.03 TAP 50.78 RCA 102.40 APO 148.28 V2 34.902
 RC 150.092 GL 33.10 GP -30.84 ZAL 109.07 ZAP 143.21 ETS 309.92 ZAE 126.06 ETE 204.74 ZAC 128.42 ETC 189.11 CLP-158.86

PLANETOCENTRIC CONIC

C3 16.170 VHL 4.021 DLA 44.26 RAL 19.31 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 6.117 DPA -18.58 RAP 42.56 ECC 1.2661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.45 16 59 51 4179.69 -31.50 189.45 250.35 57.14 18 9 30 3579.7 -35.58 181.60
 125.55 0 33 49 2794.03 -31.49 82.41 250.34 57.13 1 20 23 2194.0 -35.57 74.56
 54.45 16 59 51 4179.69 -31.50 189.45 250.35 57.14 18 9 30 3579.7 -35.58 181.60
 125.55 0 33 49 2794.03 -31.49 82.41 250.34 57.13 1 20 23 2194.0 -35.57 74.56
 54.45 16 59 51 4179.69 -31.50 189.45 250.35 57.14 18 9 30 3579.7 -35.58 181.60
 125.55 0 33 49 2794.03 -31.49 82.41 250.34 57.13 1 20 23 2194.0 -35.57 74.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6320 TRA -.9573 TC3-4.6612 BAU 1.0123 SGT 4804.9 SGR 668.5 SG3 240.4 ST 2397.1 SR 561.8 SS 788.2
 RDE .3940 RRA -.0302 RC3 -.4450 FAU .05451 RRT .8598 RRF .9051 RTF .9343 CRT .9779 CRS -.9996 CST -.9767
 FDE 1.0453 FRA -.0605 FC3-2.9182 BSP 15261 SGB 4851.2 R23 .1913 R13 .9360 LSA 2578.0 MSA 191.2 SSA 13.0
 BDE 1.6789 BRA .9578 BC3 4.6824 FSP -793 SG1 4839.3 SG2 339.0 THA 6.86 EL1 2459.4 EL2 114.4 ALF 12.94

LAUNCH DATE FEB 18 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 466.462

RL 147.87 LAL .00 LOL 149.17 VL 27.087 GAL -1.68 AZL 85.74 HCA 224.92 SMA 125.05 ECC .18476 INC 4.2621 V1 30.131
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.204 GAP 7.49 AZP 93.02 TAL 187.46 TAP 52.38 RCA 101.95 APO 148.15 V2 34.914
 RC 152.312 GL 31.10 GP -28.71 ZAL 107.30 ZAP 145.44 ETS 310.26 ZAE 126.79 ETE 203.22 ZAC 130.51 ETC 188.63 CLP-159.88

PLANETOCENTRIC CONIC

C3 15.176 VHL 3.896 DLA 43.44 RAL 23.31 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 6.148 DPA -15.89 RAP 43.50 ECC 1.2498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.57 17 20 13 4153.61 -31.50 187.10 253.00 58.39 18 29 27 3553.6 -35.43 179.15
 124.43 0 45 22 2791.41 -31.49 82.17 252.99 58.37 1 31 53 2191.4 -35.41 74.23
 55.57 17 20 13 4153.61 -31.50 187.10 253.00 58.39 18 29 27 3553.6 -35.43 179.15
 124.43 0 45 22 2791.41 -31.49 82.17 252.99 58.37 1 31 53 2191.4 -35.41 74.23
 55.57 17 20 13 4153.61 -31.50 187.10 253.00 58.39 18 29 27 3553.6 -35.43 179.15
 124.43 0 45 22 2791.41 -31.49 82.17 252.99 58.37 1 31 53 2191.4 -35.41 74.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6067 TRA -.8085 TC3-5.0824 BAU 1.0348 SGT 4893.5 SGR 642.7 SG3 239.8 ST 2416.5 SR 548.8 SS 766.2
 RDE .3731 RRA -.0142 RC3 -.4281 FAU .05335 RRT .8471 RRF .8851 RTF .9326 CRT .9817 CRS -.9990 CST -.9757
 FDE .9795 FRA .0382 FC3-3.0433 BSP 15580 SGB 4935.5 R23 .1718 R13 .9340 LSA 2587.2 MSA 184.2 SSA 14.6
 BDE 1.6494 BRA .8086 BC3 5.1004 FSP -794 SG1 4923.8 SG2 339.4 THA 6.38 EL1 2475.9 EL2 102.0 ALF 12.59

LAUNCH DATE FEB 18 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 472.299

RL 147.87 LAL .00 LOL 149.17 VL 27.042 GAL -1.34 AZL 86.08 HCA 228.10 SMA 124.76 ECC .18665 INC 3.9195 V1 30.131
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.182 GAP 7.75 AZP 92.62 TAL 185.88 TAP 53.98 RCA 101.47 APO 148.05 V2 34.926
 RC 154.516 GL 29.16 GP -26.83 ZAL 105.25 ZAP 147.48 ETS 310.48 ZAE 127.38 ETE 201.83 ZAC 132.60 ETC 188.19 CLP-160.89

PLANETOCENTRIC CONIC

C3 14.380 VHL 3.792 DLA 42.68 RAL 27.41 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 6.201 DPA -13.41 RAP 44.60 ECC 1.2367
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.62 17 40 52 4130.12 -31.43 184.95 255.93 59.48 18 49 42 3530.1 -35.21 176.93
 123.38 0 57 28 2790.88 -31.42 82.07 255.92 59.47 1 43 59 2190.9 -35.20 74.05
 56.62 17 40 52 4130.12 -31.43 184.95 255.93 59.48 18 49 42 3530.1 -35.21 176.93
 123.38 0 57 28 2790.88 -31.42 82.07 255.92 59.47 1 43 59 2190.9 -35.20 74.05
 56.62 17 40 52 4130.12 -31.43 184.95 255.93 59.48 18 49 42 3530.1 -35.21 176.93
 123.38 0 57 28 2790.88 -31.42 82.07 255.92 59.47 1 43 59 2190.9 -35.20 74.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5812 TRA -.6534 TC3-5.4790 BAU 1.0563 SGT 4977.8 SGR 621.4 SG3 237.8 ST 2426.0 SR 538.3 SS 740.3
 RDE .3562 RRA -.0000 RC3 -.4096 FAU .05185 RRT .8330 RRF .8633 RTF .9313 CRT .9855 CRS -.9977 CST -.9745
 FDE .9117 FRA .1331 FC3-3.1217 BSP 15873 SGB 5016.5 R23 .1516 R13 .9324 LSA 2586.8 MSA 177.3 SSA 16.3
 BDE 1.6208 BRA .6534 BC3 5.4943 FSP -788 SG1 5004.8 SG2 342.0 THA 5.96 EL1 2483.4 EL2 89.2 ALF 12.35

LAUNCH DATE FEB 18 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 478.123

RL 147.87 LAL .00 LOL 149.17 VL 26.997 GAL -.99 AZL 86.39 HCA 231.28 SMA 124.48 ECC .18871 INC 3.6092 V1 30.131
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.161 GAP 8.00 AZP 92.26 TAL 184.28 TAP 55.56 RCA 100.99 APO 147.97 V2 34.938
 RC 156.704 GL 27.27 GP -25.16 ZAL 102.95 ZAP 149.35 ETS 310.58 ZAE 127.86 ETE 200.57 ZAC 134.71 ETC 187.76 CLP-161.89

PLANETOCENTRIC CONIC

C3 13.752 VHL 3.708 DLA 41.95 RAL 31.63 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 6.273 DPA -11.14 RAP 45.85 ECC 1.2263
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.65 18 1 57 4108.60 -31.27 182.96 259.14 60.47 19 10 26 3508.6 -34.94 174.88
 122.35 1 9 59 2792.75 -31.26 82.13 259.13 60.46 1 56 32 2192.7 -34.93 74.06
 57.65 18 1 57 4108.60 -31.27 182.96 259.14 60.47 19 10 26 3508.6 -34.94 174.88
 122.35 1 9 59 2792.75 -31.26 82.13 259.13 60.46 1 56 32 2192.7 -34.93 74.06
 57.65 18 1 57 4108.60 -31.27 182.96 259.14 60.47 19 10 26 3508.6 -34.94 174.88
 122.35 1 9 59 2792.75 -31.26 82.13 259.13 60.46 1 56 32 2192.7 -34.93 74.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5576 TRA -.4890 TC3-5.8352 BAU 1.0752 SGT 5055.1 SGR 604.9 SG3 234.8 ST 2429.3 SR 531.1 SS 714.3
 RDE .3436 RRA .0134 RC3 -.3889 FAU .05000 RRT .8169 RRF .8404 RTF .9301 CRT .9893 CRS -.9951 CST -.9730
 FDE .8469 FRA .2261 FC3-3.1478 BSP 16076 SGB 5091.1 R23 .1335 R13 .9310 LSA 2581.5 MSA 171.1 SSA 18.0
 BDE 1.5951 BRA .4892 BC3 5.8482 FSP -772 SG1 5079.3 SG2 347.3 THA 5.61 EL1 2485.5 EL2 75.7 ALF 12.22

LAUNCH DATE FEB 18 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 483.933

RL 147.87 LAL .00 LOL 149.17 VL 26.952 GAL -.63 AZL 86.67 MCA 234.46 SMA 124.19 ECC .19096 INC 3.3252 V1 30.131
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.140 GAP 8.27 AZP 91.93 TAL 182.67 TAP 57.13 RCA 100.48 APO 147.94 V2 34.951
 RC 158.875 GL 25.41 GP -23.67 ZAL 100.42 ZAP 151.08 ETS 310.56 ZAE 128.26 ETE 199.43 ZAC 136.82 ETC 187.36 CLP-162.88

PLANETOCENTRIC CONIC

C3 13.273 VHL 3.643 DLA 41.23 RAL 35.94 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 6.361 DPA -9.03 RAP 47.22 ECC 1.2184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.68 18 23 36 4088.68 -31.04 181.07 262.59 61.37 19 31 45 3488.7 -34.59 172.96
 121.32 1 22 46 2797.24 -31.03 82.37 262.59 61.36 2 9 23 2197.2 -34.58 74.26
 58.68 18 23 36 4088.68 -31.04 181.07 262.59 61.37 19 31 45 3488.7 -34.59 172.96
 121.32 1 22 46 2797.24 -31.03 82.37 262.59 61.36 2 9 23 2197.2 -34.58 74.26
 58.68 18 23 36 4088.68 -31.04 181.07 262.59 61.37 19 31 45 3488.7 -34.59 172.96
 121.32 1 22 46 2797.24 -31.03 82.37 262.59 61.36 2 9 23 2197.2 -34.58 74.26

DIFFERENTIAL CORRECTIONS

TDE 1.5257 TRA -.3212 TC3-6.1619 BAU 1.0954
 RDE .3331 RRA .0252 RC3 -.3705 FAU .04816
 FDE .7779 FRA .3105 FC3-3.1411 BSP 16386
 BDE 1.5616 BRA .3222 BC3 6.1731 FSP -764

MID-COURSE EXECUTION ACCURACY

SGT 5134.9 SGR 591.7 SG3 231.1
 RRT .8010 RRF .8168 RTF .9300
 SGB 5168.9 R23 .1141 R13 .9308
 SG1 5156.9 SG2 352.7 THA 5.30

ORBIT DETERMINATION ACCURACY

ST 2411.6 SR 524.2 SS 681.8
 CRT .9927 CRS -.9911 CST -.9710
 LSA 2555.0 MSA 164.8 SSA 19.9
 EL1 2467.2 EL2 61.7 ALF 12.18

LAUNCH DATE FEB 18 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 489.728

RL 147.87 LAL .00 LOL 149.17 VL 26.907 GAL -.25 AZL 86.94 MCA 237.65 SMA 123.91 ECC .19339 INC 3.0627 V1 30.131
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.120 GAP 8.54 AZP 91.64 TAL 181.05 TAP 58.70 RCA 99.95 APO 147.88 V2 34.964
 RC 161.027 GL 23.56 GP -22.34 ZAL 97.69 ZAP 152.68 ETS 310.41 ZAE 128.58 ETE 198.41 ZAC 138.96 ETC 186.97 CLP-163.85

PLANETOCENTRIC CONIC

C3 12.931 VHL 3.596 DLA 40.49 RAL 40.35 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 6.463 DPA -7.08 RAP 48.70 ECC 1.2128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.76 18 45 58 4069.69 -30.71 179.24 266.28 62.20 19 53 48 3469.7 -34.16 171.10
 120.24 1 35 33 2804.93 -30.69 82.82 266.28 62.18 2 22 18 2204.9 -34.15 74.69
 59.76 18 45 58 4069.69 -30.71 179.24 266.28 62.20 19 53 48 3469.7 -34.16 171.10
 120.24 1 35 33 2804.93 -30.69 82.82 266.28 62.18 2 22 18 2204.9 -34.15 74.69
 59.76 18 45 58 4069.69 -30.71 179.24 266.28 62.20 19 53 48 3469.7 -34.16 171.10
 120.24 1 35 33 2804.93 -30.69 82.82 266.28 62.18 2 22 18 2204.9 -34.15 74.69

DIFFERENTIAL CORRECTIONS

TDE 1.4866 TRA -.1462 TC3-6.4367 BAU 1.1144
 RDE .3246 RRA .0362 RC3 -.3520 FAU .04618
 FDE .7069 FRA .3889 FC3-3.0916 BSP 16688
 BDE 1.5216 BRA .1506 BC3 6.4463 FSP -754

MID-COURSE EXECUTION ACCURACY

SGT 5209.0 SGR 580.8 SG3 226.6
 RRT .7847 RRF .7927 RTF .9306
 SGB 5241.3 R23 .0952 R13 .9312
 SG1 5229.0 SG2 358.6 THA 5.02

ORBIT DETERMINATION ACCURACY

ST 2374.5 SR 517.7 SS 644.7
 CRT .9956 CRS -.9847 CST -.9684
 LSA 2509.2 MSA 159.1 SSA 21.8
 EL1 2429.8 EL2 47.3 ALF 12.25

LAUNCH DATE FEB 18 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 495.507

RL 147.87 LAL .00 LOL 149.17 VL 26.862 GAL .14 AZL 87.18 MCA 240.83 SMA 123.63 ECC .19604 INC 2.8179 V1 30.131
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.100 GAP 8.82 AZP 91.37 TAL 179.42 TAP 60.26 RCA 99.40 APO 147.87 V2 34.977
 RC 163.161 GL 21.74 GP -21.15 ZAL 94.78 ZAP 154.16 ETS 310.12 ZAE 128.86 ETE 197.48 ZAC 141.11 ETC 186.59 CLP-164.80

PLANETOCENTRIC CONIC

C3 12.717 VHL 3.566 DLA 39.70 RAL 44.82 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 6.578 DPA -5.27 RAP 50.27 ECC 1.2093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.92 19 9 7 4051.23 -30.27 177.41 270.18 62.97 20 16 38 3451.2 -33.63 169.26
 119.08 1 48 8 2816.24 -30.26 83.52 270.17 62.96 2 35 4 2216.2 -33.62 75.38
 60.92 19 9 7 4051.23 -30.27 177.41 270.18 62.97 20 16 38 3451.2 -33.63 169.26
 119.08 1 48 8 2816.24 -30.26 83.52 270.17 62.96 2 35 4 2216.2 -33.62 75.38
 60.92 19 9 7 4051.23 -30.27 177.41 270.18 62.97 20 16 38 3451.2 -33.63 169.26
 119.08 1 48 8 2816.24 -30.26 83.52 270.17 62.96 2 35 4 2216.2 -33.62 75.38

DIFFERENTIAL CORRECTIONS

TDE 1.4519 TRA .0476 TC3-6.6296 BAU 1.1286
 RDE .3203 RRA .0491 RC3 -.3302 FAU .04384
 FDE .6479 FRA .4734 FC3-2.9846 BSP 16771
 BDE 1.4868 BRA .0684 BC3 6.6378 FSP -725

MID-COURSE EXECUTION ACCURACY

SGT 5273.5 SGR 575.2 SG3 221.8
 RRT .7663 RRF .7709 RTF .9300
 SGB 5304.7 R23 .0853 R13 .9305
 SG1 5291.9 SG2 368.2 THA 4.80

ORBIT DETERMINATION ACCURACY

ST 2337.2 SR 515.6 SS 616.2
 CRT .9978 CRS -.9754 CST -.9653
 LSA 2466.4 MSA 156.8 SSA 23.6
 EL1 2393.2 EL2 33.4 ALF 12.42

LAUNCH DATE FEB 18 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 501.269

RL 147.87 LAL .00 LOL 149.17 VL 26.818 GAL .55 AZL 87.41 MCA 244.02 SMA 123.36 ECC .19890 INC 2.5877 V1 30.131
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.080 GAP 9.10 AZP 91.13 TAL 177.79 TAP 61.82 RCA 98.82 APO 147.90 V2 34.990
 RC 165.276 GL 19.92 GP -20.09 ZAL 91.71 ZAP 155.54 ETS 309.70 ZAE 129.09 ETE 196.65 ZAC 143.29 ETC 186.21 CLP-165.74

PLANETOCENTRIC CONIC

C3 12.631 VHL 3.554 DLA 38.86 RAL 49.34 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.705 DPA -3.58 RAP 51.93 ECC 1.2079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.19 19 33 8 4032.71 -29.72 175.54 274.25 63.71 20 40 20 3432.7 -32.99 167.40
 117.81 2 0 10 2831.85 -29.71 84.51 274.25 63.70 2 47 22 2231.8 -32.98 76.37
 62.19 19 33 8 4032.71 -29.72 175.54 274.25 63.71 20 40 20 3432.7 -32.99 167.40
 117.81 2 0 10 2831.85 -29.71 84.51 274.25 63.70 2 47 22 2231.8 -32.98 76.37
 62.19 19 33 8 4032.71 -29.72 175.54 274.25 63.71 20 40 20 3432.7 -32.99 167.40
 117.81 2 0 10 2831.85 -29.71 84.51 274.25 63.70 2 47 22 2231.8 -32.98 76.37

DIFFERENTIAL CORRECTIONS

TDE 1.3934 TRA .2399 TC3-6.7751 BAU 1.1453
 RDE .3150 RRA .0605 RC3 -.3116 FAU .04168
 FDE .5756 FRA .5450 FC3-2.8566 BSP 17030
 BDE 1.4286 BRA .2474 BC3 6.7822 FSP -709

MID-COURSE EXECUTION ACCURACY

SGT 5337.1 SGR 568.0 SG3 216.1
 RRT .7487 RRF .7477 RTF .9306
 SGB 5367.2 R23 .0716 R13 .9310
 SG1 5354.1 SG2 375.3 THA 4.58

ORBIT DETERMINATION ACCURACY

ST 2256.0 SR 509.2 SS 573.3
 CRT .9987 CRS -.9611 CST -.9602
 LSA 2377.5 MSA 155.6 SSA 25.4
 EL1 2312.6 EL2 25.6 ALF 12.70

LAUNCH DATE FEB 18 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 507.011

RL 147.87 LAL .00 LOL 149.17 VL 26.774 GAL .97 AZL 87.63 HCA 247.22 SMA 123.09 ECC .20200 INC 2.3695 V1 30.131
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.061 GAP 9.40 AZP 90.92 TAL 176.15 TAP 63.37 RCA 98.23 APO 147.95 V2 35.003
 RC 167.370 GL 18.11 GP -19.13 ZAL 88.53 ZAP 156.83 ETS 309.13 ZAE 129.30 ETE 195.90 ZAC 145.47 ETC 185.83 CLP-166.66

PLANETOCENTRIC CONIC

C3 12.672 VHL 3.560 CLA 37.96 RAL 53.87 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 6.843 DPA -1.99 RAP 53.67 ECC 1.2085
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.59 19 58 5 4013.51 -29.06 173.58 278.47 64.42 21 4 59 3413.5 -32.24 165.46
 116.41 2 11 21 2852.42 -29.04 85.84 278.47 64.41 2 58 54 2252.4 -32.23 77.72
 63.59 19 58 5 4013.51 -29.06 173.58 278.47 64.42 21 4 59 3413.5 -32.24 165.46
 116.41 2 11 21 2852.42 -29.04 85.84 278.47 64.41 2 58 54 2252.4 -32.23 77.72
 63.59 19 58 5 4013.51 -29.06 173.58 278.47 64.42 21 4 59 3413.5 -32.24 165.46
 116.41 2 11 21 2852.42 -29.04 85.84 278.47 64.41 2 58 54 2252.4 -32.23 77.72

DIFFERENTIAL CORRECTIONS

TDE 1.3278 TRA .4435 TC3-6.8517 BAU 1.1618
 RDE .3116 RRA .0724 RC3 -.2952 FAU .03964
 FDE .5067 FRA .6144 FC3-2.7080 BSP 17269
 BDE 1.3639 BRA .4434 BC3 6.8581 FSP -692

MID-COURSE EXECUTION ACCURACY

SGT 5402.1 SGR 563.5 SG3 210.8
 RRT .7329 RRF .7269 RTF .9318
 SGB 5431.4 R23 .0597 R13 .9321
 SG1 5418.0 SG2 382.3 THA 4.39

ORBIT DETERMINATION ACCURACY

ST 2159.3 SR 503.5 SS 532.1
 CRT .9977 CRS -.9402 CST -.9538
 LSA 2274.6 MSA 158.0 SSA 26.7
 EL1 2217.0 EL2 32.9 ALF 13.10

LAUNCH DATE FEB 18 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 512.733

RL 147.87 LAL .00 LOL 149.17 VL 26.730 GAL 1.41 AZL 87.84 HCA 250.41 SMA 122.82 ECC .20536 INC 2.1612 V1 30.131
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.041 GAP 9.71 AZP 90.72 TAL 174.51 TAP 64.93 RCA 97.60 APO 148.05 V2 35.016
 RC 169.445 GL 16.33 GP -18.26 ZAL 85.25 ZAP 158.03 ETS 308.40 ZAE 129.47 ETE 195.23 ZAC 147.68 ETC 185.43 CLP-167.57

PLANETOCENTRIC CONIC

C3 12.844 VHL 3.584 CLA 36.98 RAL 58.38 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 6.993 DPA -.52 RAP 55.49 ECC 1.2114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.16 20 24 4 3993.01 -28.27 171.49 282.80 65.11 21 30 37 3393.0 -31.38 163.40
 114.84 2 21 19 2878.71 -28.26 87.56 282.80 65.10 3 9 18 2278.7 -31.37 79.48
 65.16 20 24 4 3993.01 -28.27 171.49 282.80 65.11 21 30 37 3393.0 -31.38 163.40
 114.84 2 21 19 2878.71 -28.26 87.56 282.80 65.10 3 9 18 2278.7 -31.37 79.48
 65.16 20 24 4 3993.01 -28.27 171.49 282.80 65.11 21 30 37 3393.0 -31.38 163.40
 114.84 2 21 19 2878.71 -28.26 87.56 282.80 65.10 3 9 18 2278.7 -31.37 79.48

DIFFERENTIAL CORRECTIONS

TDE 1.2511 TRA .6573 TC3-6.8475 BAU 1.1767
 RDE .3093 RRA .0846 RC3 -.2784 FAU .03755
 FDE .4379 FRA .6797 FC3-2.5312 BSP 17501
 BDE 1.2888 BRA .6627 BC3 6.8532 FSP -676

MID-COURSE EXECUTION ACCURACY

SGT 5460.8 SGR 559.4 SG3 205.0
 RRT .7172 RRF .7070 RTF .9332
 SGB 5489.3 R23 .0491 R13 .9335
 SG1 5475.6 SG2 388.8 THA 4.22

ORBIT DETERMINATION ACCURACY

ST 2044.1 SR 497.1 SS 490.7
 CRT .9939 CRS -.9096 CST -.9454
 LSA 2153.6 MSA 164.9 SSA 27.5
 EL1 2103.0 EL2 53.1 ALF 13.60

LAUNCH DATE FEB 18 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 518.432

RL 147.87 LAL .00 LOL 149.17 VL 26.686 GAL 1.88 AZL 88.04 HCA 253.61 SMA 122.56 ECC .20899 INC 1.9608 V1 30.131
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.023 GAP 10.03 AZP 90.55 TAL 172.87 TAP 66.48 RCA 96.94 APO 148.17 V2 35.030
 RC 171.498 GL 14.57 GP -17.48 ZAL 81.91 ZAP 159.16 ETS 307.51 ZAE 129.62 ETE 194.62 ZAC 149.90 ETC 185.01 CLP-168.47

PLANETOCENTRIC CONIC

C3 13.153 VHL 3.627 CLA 35.92 RAL 62.82 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 7.154 DPA .87 RAP 57.36 ECC 1.2165
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.91 20 51 12 3970.25 -27.37 169.19 287.22 65.78 21 57 22 3370.3 -30.40 161.15
 113.09 2 29 38 2911.72 -27.36 89.75 287.21 65.76 3 18 9 2311.7 -30.39 81.71
 66.91 20 51 12 3970.25 -27.37 169.19 287.22 65.78 21 57 22 3370.3 -30.40 161.15
 113.09 2 29 38 2911.72 -27.36 89.75 287.21 65.76 3 18 9 2311.7 -30.39 81.71
 66.91 20 51 12 3970.25 -27.37 169.19 287.22 65.78 21 57 22 3370.3 -30.40 161.15
 113.09 2 29 38 2911.72 -27.36 89.75 287.21 65.76 3 18 9 2311.7 -30.39 81.71

DIFFERENTIAL CORRECTIONS

TDE 1.1628 TRA .8815 TC3-6.7652 BAU 1.1905
 RDE .3080 RRA .0975 RC3 -.2615 FAU .03548
 FDE .3704 FRA .7424 FC3-2.3350 BSP 17727
 BDE 1.2029 BRA .8869 BC3 6.7702 FSP -660

MID-COURSE EXECUTION ACCURACY

SGT 5514.7 SGR 555.8 SG3 199.1
 RRT .7020 RRF .6884 RTF .9347
 SGB 5542.6 R23 .0404 R13 .9349
 SG1 5528.5 SG2 394.8 THA 4.07

ORBIT DETERMINATION ACCURACY

ST 1913.8 SR 489.9 SS 451.6
 CRT .9856 CRS -.8655 CST -.9345
 LSA 2018.4 MSA 177.9 SSA 27.5
 EL1 1973.8 EL2 80.3 ALF 14.18

LAUNCH DATE FEB 18 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 524.105

RL 147.87 LAL .00 LOL 149.17 VL 26.643 GAL 2.36 AZL 88.23 HCA 256.81 SMA 122.30 ECC .21293 INC 1.7667 V1 30.131
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.004 GAP 10.37 AZP 90.40 TAL 171.22 TAP 68.04 RCA 96.26 APO 148.34 V2 35.043
 RC 173.532 GL 12.85 GP -16.77 ZAL 78.55 ZAP 160.22 ETS 306.45 ZAE 129.76 ETE 194.07 ZAC 152.14 ETC 184.55 CLP-169.35

PLANETOCENTRIC CONIC

C3 13.609 VHL 3.689 CLA 34.80 RAL 67.17 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 7.327 DPA 2.16 RAP 59.30 ECC 1.2240
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.87 21 19 37 3944.33 -26.37 166.64 291.68 66.42 22 25 22 3384.3 -29.32 158.64
 111.13 2 35 52 2952.46 -26.36 92.48 291.67 66.41 3 25 4 2352.5 -29.31 84.49
 68.87 21 19 37 3944.33 -26.37 166.64 291.68 66.42 22 25 22 3384.3 -29.32 158.64
 111.13 2 35 52 2952.46 -26.36 92.48 291.67 66.41 3 25 4 2352.5 -29.31 84.49
 68.87 21 19 37 3944.33 -26.37 166.64 291.68 66.42 22 25 22 3384.3 -29.32 158.64
 111.13 2 35 52 2952.46 -26.36 92.48 291.67 66.41 3 25 4 2352.5 -29.31 84.49

DIFFERENTIAL CORRECTIONS

TDE 1.0677 TRA 1.1212 TC3-6.5951 BAU 1.2007
 RDE .3081 RRA .1115 RC3 -.2429 FAU .03329
 FDE .3070 FRA .8052 FC3-2.1178 BSP 17835
 BDE 1.1113 BRA 1.1267 BC3 6.5995 FSP -638

MID-COURSE EXECUTION ACCURACY

SGT 5561.0 SGR 552.8 SG3 193.0
 RRT .6874 RRF .6718 RTF .9359
 SGB 5588.4 R23 .0347 R13 .9360
 SG1 5574.0 SG2 400.6 THA 3.93

ORBIT DETERMINATION ACCURACY

ST 1782.2 SR 482.7 SS 419.1
 CRT .9701 CRS -.8052 CST -.9223
 LSA 1882.8 MSA 197.8 SSA 26.7
 EL1 1842.9 EL2 113.2 ALF 14.78

LAUNCH DATE FEB 18 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 529.750

RL 147.87 LAL .00 LCL 149.17 VL 26.600 GAL 2.86 AZL 88.42 HCA 260.02 SMA 122.04 ECC .21718 INC 1.5775 V1 30.131
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.986 GAP 10.72 AZP 90.27 TAL 169.58 TAP 69.60 RCA 95.54 APO 148.55 V2 35.056
 RC 175.544 GL 11.18 GP -16.12 ZAL 75.19 ZAP 161.21 ETS 305.20 ZAE 129.88 ETE 193.57 ZAC 154.39 ETC 184.04 CLP -170.22

PLANETOCENTRIC CONIC

C3 14.225 VHL 3.772 DLA 33.61 RAL 71.38 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 7.513 DPA 3.38 RAP 61.29 ECC 1.2341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.08 21 49 39 3913.76 -25.27 163.72 296.17 67.05 22 54 53 3313.8 -28.15 155.78
 108.92 2 39 27 3002.44 -25.25 95.86 296.16 67.04 3 29 29 2402.4 -28.14 87.92
 71.08 21 49 39 3913.76 -25.27 163.72 296.17 67.05 22 54 53 3313.8 -28.15 155.78
 108.92 2 39 27 3002.44 -25.25 95.86 296.16 67.04 3 29 29 2402.4 -28.14 87.92
 110.00 3 33 16 2837.77 -29.20 84.74 297.84 71.38 4 20 34 2237.8 -31.46 76.26
 110.00 1 58 56 3126.42 -21.45 103.56 294.22 62.72 2 51 3 2526.4 -24.93 96.14

DIFFERENTIAL CORRECTIONS

TDE .9575 TRA 1.3678 TC3-6.3714 BAU 1.2124
 RDE .3086 RRA .1256 RC3 -.2262 FAU .03130
 FDE .2428 FRA .8629 FC3-1.9051 BSP 18039
 BDE 1.0060 BRA 1.3735 BC3 6.3754 FSP -622

MID-COURSE EXECUTION ACCURACY

SGT 5607.0 SGR 549.0 SG3 186.9
 RRT .6737 RRF .6559 RTF .9375
 SGB 5633.8 R23 .0284 R13 .9376
 SG1 5619.3 SG2 404.9 THA 3.79

ORBIT DETERMINATION ACCURACY

ST 1642.2 SR 473.9 SS 390.0
 CRT .9434 CRS -.7223 CST -.9084
 LSA 1738.5 MSA 224.7 SSA 25.5
 EL1 1702.5 EL2 151.6 ALF 15.35

LAUNCH DATE FEB 18 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 535.362

RL 147.87 LAL .00 LCL 149.17 VL 26.558 GAL 3.39 AZL 88.61 HCA 263.23 SMA 121.79 ECC .22180 INC 1.3919 V1 30.131
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.968 GAP 11.08 AZP 90.16 TAL 167.94 TAP 71.17 RCA 94.78 APO 148.80 V2 35.069
 RC 177.535 GL 9.57 GP -15.54 ZAL 71.87 ZAP 162.14 ETS 303.75 ZAE 129.99 ETE 193.11 ZAC 156.65 ETC 183.45 CLP -171.09

PLANETOCENTRIC CONIC

C3 15.014 VHL 3.875 DLA 32.38 RAL 75.44 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 7.711 DPA 4.51 RAP 63.34 ECC 1.2471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.59 22 21 51 3876.28 -24.08 160.29 300.65 67.66 23 26 28 3276.3 -26.89 152.41
 106.41 2 39 37 3063.93 -24.07 100.05 300.65 67.65 3 30 41 2463.9 -26.88 92.17
 73.59 22 21 51 3876.28 -24.08 160.29 300.65 67.66 23 26 28 3276.3 -26.89 152.41
 106.41 2 39 37 3063.93 -24.07 100.05 300.65 67.65 3 30 41 2463.9 -26.88 92.17
 110.00 4 25 54 2735.83 -31.19 77.47 303.34 75.25 5 11 30 2135.8 -32.90 68.67
 110.00 1 38 41 3252.38 -17.33 111.01 297.12 60.07 2 32 53 2652.4 -21.18 104.00

DIFFERENTIAL CORRECTIONS

TDE .8378 TRA 1.6273 TC3-6.0857 BAU 1.2223
 RDE .3099 RRA .1405 RC3 -.2093 FAU .02935
 FDE .1809 FRA .9192 FC3-1.6923 BSP 18218
 BDE .8933 BRA 1.6333 BC3 6.0893 FSP -605

MID-COURSE EXECUTION ACCURACY

SGT 5647.6 SGR 544.8 SG3 180.9
 RRT .6609 RRF .6411 RTF .9391
 SGB 5673.8 R23 .0229 R13 .9392
 SG1 5659.2 SG2 408.1 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 1511.7 SR 464.2 SS 368.7
 CRT .8999 CRS -.6166 CST -.8961
 LSA 1602.9 MSA 258.4 SSA 24.0
 EL1 1569.3 EL2 195.1 ALF 15.70

LAUNCH DATE FEB 18 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 540.938

RL 147.87 LAL .00 LCL 149.17 VL 26.515 GAL 3.94 AZL 88.79 HCA 266.43 SMA 121.54 ECC .22679 INC 1.2086 V1 30.131
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.950 GAP 11.47 AZP 90.08 TAL 166.31 TAP 72.74 RCA 93.97 APO 149.10 V2 35.083
 RC 179.506 GL 8.02 GP -15.00 ZAL 68.61 ZAP 163.02 ETS 302.08 ZAE 130.09 ETE 192.70 ZAC 158.92 ETC 182.75 CLP -171.95

PLANETOCENTRIC CONIC

C3 15.996 VHL 4.000 DLA 31.12 RAL 79.32 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 7.924 DPA 5.57 RAP 65.42 ECC 1.2633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.52 22 57 20 3827.92 -22.83 156.07 305.12 68.25 24 1 8 3227.9 -25.58 148.25
 103.48 2 35 5 3140.88 -22.82 105.34 305.12 68.24 3 27 26 2540.9 -25.57 97.52
 76.52 22 57 20 3827.92 -22.83 156.07 305.12 68.25 24 1 8 3227.9 -25.58 148.25
 103.48 2 35 5 3140.88 -22.82 105.34 305.12 68.24 3 27 26 2540.9 -25.57 97.52
 110.00 5 6 30 2669.33 -32.24 72.57 308.34 77.97 5 50 59 2069.3 -33.56 63.59
 110.00 1 29 2 3347.47 -14.02 116.39 300.48 58.50 2 24 49 2747.5 -18.09 109.64

DIFFERENTIAL CORRECTIONS

TDE .7096 TRA 1.9001 TC3-5.7501 BAU 1.2304
 RDE .3122 RRA .1560 RC3 -.1921 FAU .02741
 FDE .1221 FRA .9743 FC3-1.4834 BSP 18388
 BDE .7752 BRA 1.9065 BC3 5.7533 FSP -589

MID-COURSE EXECUTION ACCURACY

SGT 5683.3 SGR 540.2 SG3 174.9
 RRT .6487 RRF .6276 RTF .9406
 SGB 5708.9 R23 .0188 R13 .9407
 SG1 5694.2 SG2 410.3 THA 3.55

ORBIT DETERMINATION ACCURACY

ST 1400.8 SR 454.1 SS 356.5
 CRT .8332 CRS -.4936 CST -.8902
 LSA 1485.6 MSA 296.6 SSA 22.4
 EL1 1452.5 EL2 242.1 ALF 15.56

LAUNCH DATE FEB 18 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 546.474

RL 147.87 LAL .00 LCL 149.17 VL 26.474 GAL 4.52 AZL 88.97 HCA 269.65 SMA 121.29 ECC .23221 INC 1.0265 V1 30.131
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.932 GAP 11.88 AZP 90.01 TAL 164.68 TAP 74.33 RCA 93.13 APO 149.46 V2 35.095
 RC 181.455 GL 6.55 GP -14.52 ZAL 65.45 ZAP 163.83 ETS 300.19 ZAE 130.18 ETE 192.33 ZAC 161.19 ETC 181.91 CLP -172.81

PLANETOCENTRIC CONIC

C3 17.194 VHL 4.147 DLA 29.84 RAL 83.00 RAD 6567.7 VEL 11.772 PTH 2.08 VHP 8.152 DPA 6.55 RAP 67.55 ECC 1.2830
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.16 23 38 55 3759.13 -21.53 150.38 309.57 68.82 24 41 35 3159.1 -24.22 142.61
 99.84 2 22 55 3242.75 -21.52 112.41 309.56 68.81 3 16 58 2642.8 -24.21 104.64
 100.00 2 38 44 3192.24 -22.67 109.12 310.03 69.98 3 31 56 2592.2 -25.19 101.23
 100.00 2 9 43 3284.87 -20.39 115.05 309.08 67.66 3 4 28 2684.9 -23.24 107.42
 110.00 5 41 34 2618.60 -32.90 68.76 313.11 80.14 6 25 12 2018.6 -33.91 59.67
 110.00 1 23 23 3431.28 -11.00 121.00 304.02 57.43 2 20 34 2831.3 -15.21 114.43

DIFFERENTIAL CORRECTIONS

TDE .5770 TRA 2.1906 TC3-5.3695 BAU 1.2349
 RDE .3156 RRA .1725 RC3 -.1742 FAU .02545
 FDE .0680 FRA 1.0301 FC3-1.2813 BSP 18446
 BDE .6577 BRA 2.1973 BC3 5.3723 FSP -568

MID-COURSE EXECUTION ACCURACY

SGT 5713.3 SGR 535.3 SG3 169.1
 RRT .6376 RRF .6160 RTF .9419
 SGB 5738.3 R23 .0160 R13 .9420
 SG1 5723.6 SG2 411.6 THA 3.44

ORBIT DETERMINATION ACCURACY

ST 1322.7 SR 443.8 SS 353.7
 CRT .7403 CRS -.3666 CST -.8951
 LSA 1399.6 MSA 334.9 SSA 20.9
 EL1 1364.9 EL2 289.2 ALF 14.62

LAUNCH DATE FEB 18 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 551.962

RL 147.87 LAL .00 LOL 149.17 VL 26.432 GAL 5.13 AZL 89.16 HCA 272.86 SMA 121.05 ECC .23809 INC .8442 V1 30.131
 RP 107.94 LAP -.84 LOP 62.03 VP 36.914 GAP 12.32 AZP 89.96 TAL 163.07 TAP 75.93 RCA 92.23 APO 149.87 V2 35.108
 RC 183.384 GL 5.16 GP -14.07 ZAL 62.39 ZAP 164.59 ETS 298.04 ZAE 130.25 ETE 191.98 ZAC 163.47 ETC 180.85 CLP-173.66

PLANETOCENTRIC CONIC

C3 18.635 VHL 4.317 CLA 28.56 RAL 86.49 RAD 6567.8 VEL 11.833 PTH 2.10 VHP 8.397 DPA 7.47 RAP 69.72 ECC 1.3067
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 16 3625.00 -20.21 139.95 313.97 69.37 1 44 41 3025.0 -22.83 132.24
 93.90 1 49 18 3414.36 -20.19 124.52 313.97 69.36 2 46 12 2814.4 -22.82 116.81
 100.00 3 52 54 3016.48 -26.27 97.31 316.08 75.20 4 43 11 2416.5 -28.04 88.96
 100.00 1 23 21 3498.12 -14.36 128.01 311.30 63.50 2 21 39 2898.1 -17.80 120.91
 110.00 6 12 53 2578.30 -33.33 65.70 317.72 81.91 6 55 51 1978.3 -34.08 56.54
 110.00 1 19 52 3509.06 -8.11 125.18 307.64 56.68 2 18 21 2909.1 -12.44 118.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4330 TRA 2.4918 TC3-4.9742 BAU 1.2398 SGT 5740.4 SGR 529.0 SG3 163.4 ST 1274.0 SR 432.5 SS 357.1
 RDE .3194 RRA .1891 RC3 -.1576 FAU .02365 RRT .6269 RRF .6044 RTF .9436 CRT .6188 CRS -.2365 CST -.9080
 FDE .0145 FRA 1.0831 FC3-1.0985 BSP 18600 SGB 5764.8 R23 .0125 R13 .9437 LSA 1342.0 MSA 369.2 SSA 19.5
 BDE .5380 BRA 2.4990 BC3 4.9767 FSP -.553 SG1 5750.0 SG2 411.4 THA 3.32 EL1 1303.8 EL2 332.0 ALF 12.70

LAUNCH DATE FEB 18 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 557.397

RL 147.87 LAL .00 LOL 149.17 VL 26.392 GAL 5.78 AZL 89.34 HCA 276.08 SMA 120.81 ECC .24448 INC .6610 V1 30.131
 RP 107.90 LAP -.66 LOP 65.24 VP 36.897 GAP 12.78 AZP 89.93 TAL 161.47 TAP 77.55 RCA 91.28 APO 150.35 V2 35.120
 RC 185.291 GL 3.85 GP -13.67 ZAL 59.45 ZAP 165.29 ETS 295.62 ZAE 130.31 ETE 191.66 ZAC 165.74 ETC 179.47 CLP-174.51

PLANETOCENTRIC CONIC

C3 20.351 VHL 4.511 CLA 27.29 RAL 89.77 RAD 6567.8 VEL 11.905 PTH 2.12 VHP 8.661 DPA 8.31 RAP 71.92 ECC 1.3349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 36 38 3322.75 -24.16 119.21 320.14 74.77 3 32 1 2722.7 -26.02 111.04
 90.00 0 23 7 3758.34 -13.71 146.82 316.10 64.98 1 25 45 3158.3 -16.97 139.67
 100.00 4 35 32 2939.45 -27.49 91.91 321.05 77.78 5 24 32 2339.4 -28.90 83.39
 100.00 1 6 54 3616.88 -10.64 134.87 314.53 61.90 2 7 11 3016.9 -14.32 128.01
 110.00 6 41 15 2546.06 -33.61 63.22 322.23 83.35 7 23 41 1946.1 -34.16 54.02
 110.00 1 17 41 3583.03 -5.33 129.09 311.32 56.18 2 17 24 2983.0 -9.74 122.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .2824 TRA 2.8091 TC3-4.5646 BAU 1.2425 SGT 5762.6 SGR 521.9 SG3 158.0 ST 1262.8 SR 420.9 SS 366.6
 RDE .3240 RRA .2062 RC3 -.1411 FAU .02188 RRT .6168 RRF .5937 RTF .9453 CRT .4789 CRS -.1184 CST -.9270
 FDE -.0358 FRA 1.1361 FC3 -.9308 BSP 18729 SGB 5786.2 R23 .0098 R13 .9453 LSA 1323.4 MSA 393.1 SSA 18.3
 BDE .4298 BRA 2.8167 BC3 4.5667 FSP -.537 SG1 5771.7 SG2 410.1 THA 3.21 EL1 1280.2 EL2 364.5 ALF 9.88

LAUNCH DATE FEB 18 1969

FLIGHT TIME 194.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 562.770

RL 147.87 LAL .00 LOL 149.17 VL 26.351 GAL 6.46 AZL 89.52 HCA 279.29 SMA 120.58 ECC .25144 INC .4753 V1 30.131
 RP 107.87 LAP -.47 LOP 68.46 VP 36.880 GAP 13.27 AZP 89.92 TAL 159.89 TAP 79.18 RCA 90.26 APO 150.90 V2 35.132
 RC 187.175 GL 2.63 GP -13.29 ZAL 56.65 ZAP 165.93 ETS 292.92 ZAE 130.36 ETE 191.37 ZAC 168.01 ETC 177.58 CLP-175.36

PLANETOCENTRIC CONIC

C3 22.381 VHL 4.731 CLA 26.05 RAL 92.84 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 8.945 DPA 9.10 RAP 74.14 ECC 1.3683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 23 3237.22 -25.56 113.34 325.13 77.39 4 15 21 2637.2 -27.05 104.99
 90.00 0 2 54 3889.66 -9.81 154.49 319.25 63.30 1 7 43 3289.7 -13.32 147.57
 100.00 5 10 8 2886.62 -28.20 88.14 325.73 79.65 5 58 15 2286.6 -29.34 79.53
 100.00 0 56 50 3715.49 -7.43 140.43 317.98 60.96 1 58 45 3115.5 -11.25 133.72
 110.00 7 7 7 2520.61 -33.79 61.26 326.64 84.50 7 49 8 1920.6 -34.18 52.03
 110.00 1 16 20 3654.26 -2.62 132.83 315.01 55.91 2 17 15 3054.3 -7.08 126.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1260 TRA 3.1437 TC3-4.1505 BAU 1.2425 SGT 5779.7 SGR 513.8 SG3 152.7 ST 1285.9 SR 409.1 SS 380.2
 RDE .3294 RRA .2235 RC3 -.1251 FAU .02017 RRT .6071 RRF .5838 RTF .9471 CRT .3350 CRS -.0165 CST -.9465
 FDE -.0833 FRA 1.1893 FC3 -.7800 BSP 18841 SGB 5802.5 R23 .0074 R13 .9472 LSA 1342.3 MSA 404.0 SSA 17.2
 BDE .3527 BRA 3.1517 BC3 4.1524 FSP -.521 SG1 5788.2 SG2 407.7 THA 3.10 EL1 1293.9 EL2 383.1 ALF 6.67

LAUNCH DATE FEB 18 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 568.071

RL 147.87 LAL .00 LOL 149.17 VL 26.311 GAL 7.18 AZL 89.71 HCA 282.51 SMA 120.35 ECC .25903 INC .2859 V1 30.131
 RP 107.83 LAP -.28 LOP 71.68 VP 36.862 GAP 13.80 AZP 89.94 TAL 158.33 TAP 80.84 RCA 89.18 APO 151.52 V2 35.144
 RC 189.037 GL 1.50 GP -12.95 ZAL 53.99 ZAP 166.52 ETS 289.92 ZAE 130.40 ETE 191.10 ZAC 170.26 ETC 174.83 CLP-176.22

PLANETOCENTRIC CONIC

C3 24.774 VHL 4.977 CLA 24.84 RAL 95.72 RAD 6568.0 VEL 12.089 PTH 2.16 VHP 9.252 DPA 9.81 RAP 76.40 ECC 1.4077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 23 3181.85 -26.33 109.47 329.80 79.18 4 49 24 2581.9 -27.56 101.02
 90.00 23 46 54 3994.67 -6.54 160.48 322.65 62.39 24 53 29 3394.7 -10.19 153.70
 100.00 5 39 59 2847.81 -28.64 85.34 330.25 81.06 6 27 27 2247.8 -29.58 76.67
 100.00 0 49 55 3803.94 -4.48 145.34 321.52 60.41 1 53 19 3203.9 -8.39 138.73
 110.00 7 30 48 2501.12 -33.91 59.75 330.98 85.38 8 12 29 1901.1 -34.18 50.51
 110.00 1 15 36 3723.39 .02 136.43 318.72 55.82 2 17 39 3123.4 -4.46 130.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0328 TRA 3.5011 TC3-3.7353 BAU 1.2377 SGT 5792.4 SGR 505.0 SG3 147.8 ST 1337.5 SR 397.4 SS 396.5
 RDE .3358 RRA .2414 RC3 -.1093 FAU .01843 RRT .5982 RRF .5752 RTF .9490 CRT .2035 CRS .0649 CST -.9628
 FDE -.1267 FRA 1.2447 FC3 -.6441 BSP 18847 SGB 5814.3 R23 .0059 R13 .9490 LSA 1393.3 MSA 403.1 SSA 16.2
 BDE .3374 BRA 3.5094 BC3 3.7369 FSP -.502 SG1 5800.3 SG2 404.1 THA 3.00 EL1 1340.2 EL2 388.3 ALF 3.78

LAUNCH DATE FEB 18 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 573.289

RL 147.87 LAL .00 LOL 149.17 VL 26.272 GAL 7.95 AZL 89.91 MCA 285.74 SMA 120.13 ECC .26731 INC .0912 V1 30.131
 RP 107.79 LAP .09 LOP 74.91 VP 36.845 GAP 14.37 AZP 89.97 TAL 156.79 TAP 82.53 RCA 88.01 APO 152.24 V2 35.155
 RC 190.875 GL .46 GP -12.64 ZAL 51.48 ZAP 167.03 ETS 286.60 ZAE 130.42 ETE 190.84 ZAC 172.46 ETC 170.46 CLP-177.08

PLANETOCENTRIC CONIC

C3 27.587 VHL 5.252 DLA 23.68 RAL 98.40 RAD 6568.1 VEL 12.205 PTH 2.19 VHP 9.584 DPA 10.46 RAP 78.66 ECC 1.4540
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 3 3142.46 -26.80 106.68 334.29 80.50 5 18 25 2542.5 -27.84 98.17
 90.00 23 38 36 4087.31 -3.59 165.69 326.17 61.89 24 46 43 3487.3 -7.32 159.00
 100.00 6 6 22 2819.02 -28.93 83.25 334.65 82.12 6 53 21 2219.0 -29.72 74.54
 100.00 0 44 54 3885.98 -1.71 149.85 325.12 60.15 1 49 40 3286.0 -5.67 143.30
 110.00 7 52 30 2486.99 -33.98 58.65 335.27 86.03 8 33 57 1887.0 -34.16 49.41
 110.00 1 15 15 3790.78 2.60 139.95 322.44 55.90 2 18 26 3190.8 -1.89 133.75

DIFFERENTIAL CORRECTIONS

TDE -.2019 TRA 3.8739 TC3-3.3393 BAU 1.2321
 RDE .3427 RRA .2588 RC3 -.0948 FAU .01682
 FDE -1.694 FRA 1.2993 FC3 -.5280 BSP 18947
 BOE .3977 BRA 3.8826 BC3 3.3407 FSP -487

MID-COURSE EXECUTION ACCURACY

SGT 5800.4 SGR 494.7 SG3 142.9
 RRT .5889 RRF .5661 RTF .9512
 SGB 5821.5 R23 .0042 R13 .9512
 SG1 5807.8 SG2 399.3 THA 2.89

ORBIT DETERMINATION ACCURACY

ST 1405.6 SR 385.1 SS 414.0
 CRT .0850 CRS .1355 CST -.9749
 LSA 1462.9 MSA 393.9 SSA 15.3
 EL1 1406.0 EL2 383.6 ALF 1.44

LAUNCH DATE FEB 18 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 578.409

RL 147.87 LAL .00 LOL 149.17 VL 26.233 GAL 8.77 AZL 90.11 MCA 288.96 SMA 119.90 ECC .27637 INC .1077 V1 30.131
 RP 107.76 LAP .10 LOP 78.13 VP 36.828 GAP 14.98 AZP 90.04 TAL 155.29 TAP 84.25 RCA 86.77 APO 153.04 V2 35.166
 RC 192.690 GL -.51 GP -12.35 ZAL 49.13 ZAP 167.48 ETS 282.95 ZAE 130.42 ETE 190.60 ZAC 174.59 ETC 162.63 CLP-177.95

PLANETOCENTRIC CONIC

C3 30.891 VHL 5.558 DLA 22.56 RAL 100.88 RAD 6568.2 VEL 12.340 PTH 2.23 VHP 9.945 DPA 11.05 RAP 80.95 ECC 1.5084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 1 3113.98 -27.11 104.65 338.65 81.48 5 43 55 2514.0 -28.01 96.10
 90.00 23 32 28 4172.37 -.85 170.44 329.74 61.69 24 42 1 3572.4 -4.63 163.80
 100.00 6 29 59 2798.11 -29.11 81.73 338.96 82.90 7 16 37 2198.1 -29.79 72.99
 100.00 0 41 8 3963.47 .92 154.10 328.75 60.12 1 47 11 3363.5 -3.06 147.58
 110.00 8 12 24 2477.72 -34.02 57.93 339.50 86.45 8 53 41 1877.7 -34.14 48.68
 110.00 1 15 12 3856.63 5.10 143.40 326.15 56.15 2 19 29 3256.6 .62 137.18

DIFFERENTIAL CORRECTIONS

TDE -.3770 TRA 4.2695 TC3-2.9595 BAU 1.2227
 RDE .3503 RRA .2761 RC3 -.0811 FAU .01526
 FDE -.2098 FRA 1.3556 FC3 -.4276 BSP 19031
 BOE .5146 BRA 4.2784 BC3 2.9607 FSP -473

MID-COURSE EXECUTION ACCURACY

SGT 5804.2 SGR 483.2 SG3 138.3
 RRT .5795 RRF .5574 RTF .9536
 SGB 5824.3 R23 .0028 R13 .9536
 SG1 5811.0 SG2 393.4 THA 2.77

ORBIT DETERMINATION ACCURACY

ST 1485.0 SR 372.8 SS 432.3
 CRT -.0142 CRS .1925 CST -.9833
 LSA 1544.8 MSA 379.9 SSA 14.5
 EL1 1485.0 EL2 372.7 ALF 179.78

LAUNCH DATE FEB 18 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 583.414

RL 147.87 LAL .00 LOL 149.17 VL 26.195 GAL 9.65 AZL 90.32 MCA 292.19 SMA 119.69 ECC .28630 INC .3168 V1 30.131
 RP 107.73 LAP .29 LOP 81.36 VP 36.811 GAP 15.64 AZP 90.12 TAL 153.82 TAP 86.01 RCA 85.42 APO 153.96 V2 35.177
 RC 194.480 GL -1.39 GP -12.09 ZAL 46.92 ZAP 167.86 ETS 278.97 ZAE 130.40 ETE 190.38 ZAC 176.48 ETC 145.73 CLP-178.84

PLANETOCENTRIC CONIC

C3 34.770 VHL 5.897 DLA 21.49 RAL 103.19 RAD 6568.4 VEL 12.496 PTH 2.26 VHP 10.339 DPA 11.58 RAP 83.24 ECC 1.5722
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 7 3093.87 -27.30 103.21 342.91 82.17 6 6 41 2493.9 28.10 94.64
 90.00 23 27 47 4252.06 1.72 174.89 333.34 61.73 24 38 39 3652.1 -2.07 168.26
 100.00 6 51 17 2783.76 -29.23 80.67 343.19 83.45 7 37 41 2183.8 -29.83 71.92
 100.00 0 38 14 4037.43 3.42 158.17 332.40 60.29 1 45 31 3437.4 -.56 151.64
 110.00 8 30 39 2472.90 -34.04 57.55 343.68 86.67 9 11 52 1872.9 -34.13 48.31
 110.00 1 15 21 3921.06 7.54 146.81 329.86 56.56 2 20 42 3321.1 3.09 140.55

DIFFERENTIAL CORRECTIONS

TDE -.5583 TRA 4.6897 TC3-2.5996 BAU 1.2088
 RDE .3586 RRA .2929 RC3 -.0683 FAU .01372
 FDE -.2484 FRA 1.4140 FC3 -.3416 BSP 19086
 BOE .6635 BRA 4.6988 BC3 2.6005 FSP -458

MID-COURSE EXECUTION ACCURACY

SGT 5803.3 SGR 470.6 SG3 133.9
 RRT .5698 RRF .5486 RTF .9561
 SGB 5822.3 R23 .0017 R13 .9561
 SG1 5809.5 SG2 386.4 THA 2.66

ORBIT DETERMINATION ACCURACY

ST 1568.9 SR 360.3 SS 450.8
 CRT -.0954 CRS .2388 CST -.9889
 LSA 1631.5 MSA 363.7 SSA 13.8
 EL1 1569.3 EL2 358.6 ALF 178.67

LAUNCH DATE FEB 18 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 588.282

RL 147.87 LAL .00 LOL 149.17 VL 26.158 GAL 10.59 AZL 90.54 MCA 295.41 SMA 119.48 ECC .29723 INC .5355 V1 30.131
 RP 107.70 LAP .48 LOP 84.58 VP 36.794 GAP 16.37 AZP 90.23 TAL 152.39 TAP 87.81 RCA 83.97 APO 154.99 V2 35.187
 RC 196.245 GL -2.20 GP -11.84 ZAL 44.87 ZAP 168.15 ETS 274.68 ZAE 130.36 ETE 190.16 ZAC 177.56 ETC 105.87 CLP-179.74

PLANETOCENTRIC CONIC

C3 39.332 VHL 6.272 DLA 20.49 RAL 105.32 RAD 6568.5 VEL 12.677 PTH 2.30 VHP 10.769 DPA 12.05 RAP 85.53 ECC 1.6473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 49 3080.56 -27.42 102.26 347.09 82.64 6 27 9 2480.6 -28.16 93.67
 90.00 23 24 6 4327.70 4.15 179.11 336.96 61.96 24 36 13 3727.7 .37 172.48
 100.00 7 10 34 2775.02 -29.30 80.03 347.34 83.78 7 56 49 2175.0 -29.85 71.27
 100.00 0 35 57 4108.47 5.81 162.09 336.05 60.63 1 44 26 3508.5 1.85 155.54
 110.00 8 47 23 2472.11 -34.04 57.49 347.81 86.71 9 28 35 1872.1 -34.12 48.25
 110.00 1 15 38 3984.14 9.88 150.18 333.56 57.11 2 22 2 3384.1 5.48 143.85

DIFFERENTIAL CORRECTIONS

TDE -.7427 TRA 5.1407 TC3-2.2582 BAU 1.1878
 RDE .3679 RRA .3092 RC3 -.0563 FAU .01215
 FDE -.2841 FRA 1.4765 FC3 -.2675 BSP 19044
 BOE .8288 BRA 5.1500 BC3 2.2589 FSP -442

MID-COURSE EXECUTION ACCURACY

SGT 5798.3 SGR 457.1 SG3 129.7
 RRT .5599 RRF .5402 RTF .9589
 SGB 5816.2 R23 .0014 R13 .9589
 SG1 5803.9 SG2 378.4 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 1652.2 SR 348.1 SS 469.0
 CRT -.1597 CRS .2744 CST -.9927
 LSA 1717.7 MSA 347.0 SSA 13.1
 EL1 1653.2 EL2 343.4 ALF 177.99

LAUNCH DATE FEB 18 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 26.121 GAL 11.61 AZL 90.77 HCA 298.64 SMA 119.27 ECC .30927 INC .7662 V1 30.131
 RP 107.67 LAP .67 LOP 87.81 VP 36.777 GAP 17.16 AZP 90.37 TAL 151.02 TAP 89.67 RCA 82.38 APO 156.16 V2 35.196
 RC 197.986 GL -2.93 GP -11.62 ZAL 42.97 ZAP 168.36 ETS 270.07 ZAE 130.28 ETE 189.95 ZAC 176.88 ETC 60.10 CLP 179.33

PLANETOCENTRIC CONIC
 C3 44.708 VHL 6.686 CLA 19.54 RAL 107.28 RAD 6568.7 VEL 12.887 PTH 2.35 VHP 11.242 OPA 12.46 RAP 87.82 ECC 1.7358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 27 3072.96 -27.49 101.71 351.18 82.91 6 45 40 2473.0 -28.18 93.11
 90.00 23 21 7 4399.90 6.45 183.18 340.58 62.37 24 34 27 3799.9 2.70 176.50
 100.00 7 28 2 2771.15 -29.32 79.75 351.43 83.92 8 14 14 2171.1 -29.86 70.98
 100.00 0 34 8 4176.95 8.08 165.91 339.70 61.12 1 43 45 3576.9 4.16 159.31
 110.00 9 2 42 2475.01 -34.03 57.72 351.88 86.58 9 43 57 1875.0 -34.13 48.47
 110.00 1 15 58 4045.85 12.15 153.53 337.26 57.80 2 23 24 3445.9 7.81 147.12

DIFFERENTIAL CORRECTIONS
 TDE -1.9414 TRA 5.6173 TC3-1.9452 BAU 1.1630 SGT 5788.4 SGR 442.0 SG3 125.6 ST 1733.4 SR 335.5 SS 487.6
 RDE .3777 RRA .3241 RC3 -.0456 FAU .01068 RRT .5483 RRF .5304 RTF .9619 CRT -.2158 CRS .3067 CST -.9952
 FDE -.3203 FRA 1.5408 FC3 -.2068 BSP 19070 SGB 5805.2 R23 .0010 R13 .9619 LSA 1801.7 MSA 329.8 SSA 12.5
 BDE 1.0144 BRA 5.6267 BC3 1.9458 FSP -429 SG1 5793.5 SG2 369.3 THA 2.41 EL1 1735.0 EL2 327.3 ALF 177.52

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 18 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 26.085 GAL 12.71 AZL 91.01 HCA 301.87 SMA 119.07 ECC .32258 INC 1.0117 V1 30.131
 RP 107.64 LAP .86 LOP 91.05 VP 36.760 GAP 18.02 AZP 90.53 TAL 149.71 TAP 91.59 RCA 80.66 APO 157.48 V2 35.205
 RC 199.701 GL -3.61 GP -11.41 ZAL 41.21 ZAP 168.47 ETS 265.22 ZAE 130.18 ETE 189.74 ZAC 175.15 ETC 39.23 CLP 178.38

PLANETOCENTRIC CONIC
 C3 51.062 VHL 7.146 CLA 18.65 RAL 109.08 RAD 6568.9 VEL 13.131 PTH 2.40 VHP 11.764 DPA 12.81 RAP 90.09 ECC 1.8404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 15 3070.24 -27.51 101.51 355.19 83.00 7 2 26 2470.2 -28.19 92.91
 90.00 23 18 40 4469.13 8.61 187.11 344.19 62.92 24 33 9 3869.1 4.91 180.38
 100.00 7 43 53 2771.54 -29.32 79.78 355.43 83.91 8 30 5 2171.5 -29.86 71.01
 100.00 0 32 39 4243.06 10.23 169.63 343.33 61.76 1 43 22 3643.1 6.38 162.97
 110.00 9 16 41 2481.22 -34.01 58.20 355.90 86.29 9 58 2 1881.2 -34.15 48.96
 110.00 1 16 21 4106.15 14.31 156.86 340.94 58.62 2 24 47 3506.2 10.05 150.35

DIFFERENTIAL CORRECTIONS
 TDE-1.1451 TRA 6.1274 TC3-1.6577 BAU 1.1319 SGT 5774.3 SGR 425.6 SG3 121.8 ST 1807.7 SR 323.0 SS 506.4
 RDE .3883 RRA .3375 RC3 -.0360 FAU .00921 RRT .5358 RRF .5196 RTF .9650 CRT -.2612 CRS .3341 CST -.9968
 FDE -.3556 FRA 1.6094 FC3 -.1561 BSP 19128 SGB 5790.0 R23 .0007 R13 .9650 LSA 1879.0 MSA 313.2 SSA 11.9
 BDE 1.2092 BRA 6.1367 BC3 1.6581 FSP -416 SG1 5778.8 SG2 359.1 THA 2.27 EL1 1809.8 EL2 311.4 ALF 177.25

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 18 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 26.050 GAL 13.91 AZL 91.28 HCA 305.11 SMA 118.88 ECC .33734 INC 1.2752 V1 30.131
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.743 GAP 18.98 AZP 90.73 TAL 148.48 TAP 93.58 RCA 78.77 APO 158.98 V2 35.213
 RC 201.391 GL -4.22 GP -11.22 ZAL 39.61 ZAP 168.48 ETS 260.15 ZAE 130.04 ETE 189.54 ZAC 173.16 ETC 30.02 CLP 177.39

PLANETOCENTRIC CONIC
 C3 58.604 VHL 7.655 CLA 17.82 RAL 110.72 RAD 6569.1 VEL 13.415 PTH 2.45 VHP 12.341 DPA 13.12 RAP 92.35 ECC 1.9645
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 25 3071.74 -27.50 101.62 359.10 82.95 7 17 36 2471.7 -28.19 93.02
 90.00 23 16 36 4535.59 10.65 190.93 347.77 63.61 24 32 12 3935.6 7.02 184.13
 100.00 7 58 13 2775.67 -29.29 80.08 359.34 83.75 8 44 29 2175.7 -29.85 71.32
 100.00 0 31 24 4306.90 12.26 173.28 346.93 62.52 1 43 11 3706.9 8.49 166.53
 110.00 9 29 24 2490.39 -33.96 58.91 359.84 85.87 10 10 55 1890.4 -34.16 49.67
 110.00 1 16 43 4164.95 16.37 160.18 344.59 59.56 2 26 8 3565.0 12.20 153.54

DIFFERENTIAL CORRECTIONS
 TDE-1.3597 TRA 6.6762 TC3-1.3931 BAU 1.0917 SGT 5756.0 SGR 408.1 SG3 118.1 ST 1875.9 SR 310.4 SS 525.6
 RDE .3999 RRA .3488 RC3 -.0275 FAU .00772 RRT .5213 RRF .5072 RTF .9682 CRT -.3005 CRS .3580 CST -.9979
 FDE -.3904 FRA 1.6833 FC3 -.1140 BSP 19143 SGB 5770.5 R23 .0007 R13 .9682 LSA 1950.2 MSA 296.9 SSA 11.4
 BDE 1.4173 BRA 6.6853 BC3 1.3934 FSP -403 SG1 5760.0 SG2 348.0 THA 2.12 EL1 1878.3 EL2 295.7 ALF 177.08

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 18 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC
 RL 147.87 LAL .00 LOL 149.17 VL 26.016 GAL 15.21 AZL 91.56 HCA 308.34 SMA 118.69 ECC .35377 INC 1.5607 V1 30.131
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.726 GAP 20.04 AZP 90.97 TAL 147.33 TAP 95.67 RCA 76.70 APO 160.68 V2 35.221
 RC 203.056 GL -4.77 GP -11.05 ZAL 38.16 ZAP 168.38 ETS 254.93 ZAE 129.85 ETE 189.34 ZAC 171.10 ETC 25.11 CLP 176.36

PLANETOCENTRIC CONIC
 C3 67.598 VHL 8.222 CLA 17.05 RAL 112.21 RAD 6569.3 VEL 13.746 PTH 2.51 VHP 12.984 DPA 13.36 RAP 94.57 ECC 2.1125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 2 3076.89 -27.45 101.99 2.91 82.77 7 31 19 2476.9 -28.17 93.40
 90.00 23 14 49 4599.38 12.55 194.65 351.31 64.41 24 31 28 3999.4 9.01 187.77
 100.00 8 11 9 2783.06 -29.24 80.62 3.15 83.47 8 57 32 2183.1 -29.83 71.87
 100.00 0 30 19 4368.44 14.17 176.86 350.49 63.40 1 43 8 3768.4 10.48 170.01
 110.00 9 40 55 2502.17 -33.90 59.83 3.69 85.33 10 22 37 1902.2 -34.18 50.59
 110.00 1 17 2 4222.10 18.31 163.47 348.20 60.62 2 27 24 3622.1 14.25 156.70

DIFFERENTIAL CORRECTIONS
 TDE-1.5812 TRA 7.2721 TC3-1.1493 BAU 1.0388 SGT 5734.4 SGR 389.6 SG3 114.6 ST 1935.5 SR 298.0 SS 545.2
 RDE .4126 RRA .3578 RC3 -.0199 FAU .00613 RRT .5046 RRF .4930 RTF .9715 CRT -.3335 CRS .3782 CST -.9986
 FDE -.4240 FRA 1.7646 FC3 -.0785 BSP 19037 SGB 5747.6 R23 .0013 R13 .9715 LSA 2013.2 MSA 281.4 SSA 10.8
 BDE 1.6342 BRA 7.2809 BC3 1.1495 FSP -389 SG1 5737.8 SG2 336.1 THA 1.97 EL1 1938.1 EL2 280.6 ALF 177.00

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 18 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 609.353

RL 147.87 LAL .00 LOL 149.17 VL 25.984 GAL 16.65 AZL 91.87 HCA 311.57 SMA 118.51 ECC .37212 INC 1.8728 V1 30.131
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.710 GAP 21.23 AZP 91.24 TAL 146.29 TAP 97.86 RCA 74.41 APO 162.61 V2 35.228
 RC 204.697 GL -5.27 GP -10.88 ZAL 36.86 ZAP 168.15 ETS 249.64 ZAE 129.60 ETE 189.13 ZAC 169.06 ETC 22.14 CLP 175.28

PLANETOCENTRIC CONIC

C3 78.386 VHL 8.854 CLA 16.34 RAL 113.53 RAD 6569.5 VEL 14.133 PTH 2.58 VHP 13.702 DPA 13.56 RAP 96.75 ECC 2.2900
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 12 3085.19 -27.38 102.59 6.59 82.48 7 43 37 2485.2 -28.14 94.00
 90.00 23 13 14 4660.47 14.32 198.26 354.78 65.31 24 30 54 4060.5 10.87 191.28
 100.00 8 22 43 2793.29 -29.15 81.37 6.85 83.09 9 9 16 2193.3 -29.80 72.63
 100.00 0 29 20 4427.60 15.94 180.36 353.99 64.37 1 43 8 3827.6 12.36 173.39
 110.00 9 51 16 2516.23 -33.82 60.92 7.43 84.69 10 33 12 1916.2 -34.18 51.69
 110.00 1 17 16 4277.43 20.12 166.73 351.76 61.77 2 28 34 3677.4 16.19 159.82

DIFFERENTIAL CORRECTIONS

TDE -1.8201 TRA 7.9115 TC3 -.9312 BAU .9760
 RDE .4263 RRA .3631 RC3 -.0135 FAU .00454
 FDE -.4597 FRA 1.8519 FC3 -.0502 BSP 19039
 BDE 1.8694 BRA 7.9198 BC3 .9313 FSP -377

MID-COURSE EXECUTION ACCURACY

SGT 5707.3 SGR 369.7 SG3 111.2
 RRT .4840 RRF .4748 RTF .9749
 SGB 5719.2 R23 .0017 R13 .9749
 SGI 5710.1 SG2 323.3 THA 1.80

ORBIT DETERMINATION ACCURACY

ST 1987.9 SR 285.5 SS 566.4
 CRT -.3653 CRS .3993 CST -.9991
 LSA 2069.6 MSA 265.9 SSA 10.2
 ELI 1990.7 EL2 265.4 ALF 176.94

LAUNCH DATE FEB 18 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 612.519

RL 147.87 LAL .00 LOL 149.17 VL 25.952 GAL 18.24 AZL 92.22 HCA 314.80 SMA 118.34 ECC .39268 INC 2.2181 V1 30.131
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.694 GAP 22.55 AZP 91.56 TAL 145.37 TAP 100.18 RCA 71.87 APO 164.80 V2 35.235
 RC 206.313 GL -5.73 GP -10.73 ZAL 35.72 ZAP 167.79 ETS 244.34 ZAE 129.29 ETE 188.92 ZAC 167.04 ETC 20.17 CLP 174.14

PLANETOCENTRIC CONIC

C3 91.412 VHL 9.561 CLA 15.70 RAL 114.70 RAD 6569.8 VEL 14.586 PTH 2.64 VHP 14.510 DPA 13.72 RAP 98.87 ECC 2.5044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 58 3096.19 -27.28 103.38 10.13 82.09 7 54 34 2496.2 -28.09 94.81
 90.00 23 11 46 4718.73 15.95 201.77 358.16 66.29 24 30 25 4118.7 12.61 194.68
 100.00 8 32 58 2805.96 -29.05 82.30 10.40 82.61 9 19 44 2206.0 -29.77 73.57
 100.00 0 28 23 4484.20 17.57 183.76 357.40 65.42 1 43 8 3884.2 14.11 176.68
 110.00 10 0 27 2532.23 -33.71 62.15 11.04 83.97 10 42 39 1932.2 -34.18 52.94
 110.00 1 17 24 4330.69 21.80 169.95 355.23 63.00 2 29 34 3730.7 18.01 162.88

DIFFERENTIAL CORRECTIONS

TDE -2.0729 TRA 8.6062 TC3 -.7345 BAU .8977
 RDE .4415 RRA .3642 RC3 -.0083 FAU .00284
 FDE -.4962 FRA 1.9484 FC3 -.0269 BSP 19025
 BDE 2.1194 BRA 8.6139 BC3 .7345 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 5675.8 SGR 348.8 SG3 108.0
 RRT .4587 RRF .4521 RTF .9782
 SGB 5686.5 R23 .0024 R13 .9782
 SGI 5678.1 SG2 309.8 THA 1.62

ORBIT DETERMINATION ACCURACY

ST 2031.7 SR 273.2 SS 589.1
 CRT -.3952 CRS .4201 CST -.9995
 LSA 2118.1 MSA 250.8 SSA 9.7
 ELI 2034.6 EL2 250.6 ALF 176.91

LAUNCH DATE FEB 18 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 615.120

RL 147.87 LAL .00 LOL 149.17 VL 25.922 GAL 20.02 AZL 92.60 HCA 318.04 SMA 118.17 ECC .41583 INC 2.6046 V1 30.131
 RP 107.53 LAP 1.74 LOP 110.48 VP 36.678 GAP 24.06 AZP 91.94 TAL 144.61 TAP 102.65 RCA 69.03 APO 167.31 V2 35.240
 RC 207.904 GL -6.14 GP -10.58 ZAL 34.74 ZAP 167.29 ETS 239.10 ZAE 128.90 ETE 188.69 ZAC 165.09 ETC 18.80 CLP 172.93

PLANETOCENTRIC CONIC

C3 107.259 VHL 10.357 CLA 15.11 RAL 115.70 RAD 6570.1 VEL 15.119 PTH 2.72 VHP 15.425 DPA 13.84 RAP 100.93 ECC 2.7652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 21 3109.52 -27.15 104.33 13.49 81.63 8 4 10 2509.5 -28.03 95.78
 90.00 23 10 22 4773.96 17.43 205.15 1.42 67.32 24 29 56 4174.0 14.21 197.95
 100.00 8 41 54 2820.71 -28.91 83.38 13.77 82.06 9 28 55 2220.7 -29.71 74.66
 100.00 0 27 26 4538.00 19.07 187.06 .68 66.53 1 43 4 3938.0 15.73 179.86
 110.00 10 8 27 2549.88 -33.58 63.51 14.48 83.18 10 50 57 1949.9 -34.16 54.32
 110.00 1 17 22 4381.59 23.34 173.10 358.58 64.29 2 30 23 3781.6 19.69 165.87

DIFFERENTIAL CORRECTIONS

TDE -2.3411 TRA 9.3643 TC3 -.5577 BAU .7998
 RDE .4585 RRA .3597 RC3 -.0040 FAU .00095
 FDE -.5341 FRA 2.0557 FC3 -.0077 BSP 18993
 BDE 2.3856 BRA 9.3712 BC3 .5577 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 5639.9 SGR 326.9 SG3 104.9
 RRT .4270 RRF .4231 RTF .9814
 SGB 5649.4 R23 .0032 R13 .9814
 SGI 5641.6 SG2 295.6 THA 1.42

ORBIT DETERMINATION ACCURACY

ST 2066.5 SR 261.1 SS 613.9
 CRT -.4244 CRS .4415 CST -.9997
 LSA 2158.6 MSA 236.2 SSA 9.2
 ELI 2069.5 EL2 236.0 ALF 176.89

LAUNCH DATE FEB 18 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 617.006

RL 147.87 LAL .00 LOL 149.17 VL 25.895 GAL 22.00 AZL 93.04 HCA 321.27 SMA 118.02 ECC .44197 INC 3.0430 V1 30.131
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.664 GAP 25.76 AZP 92.37 TAL 144.04 TAP 105.31 RCA 65.86 APO 170.18 V2 35.246
 RC 209.470 GL -6.50 GP -10.44 ZAL 33.94 ZAP 166.64 ETS 233.98 ZAE 128.42 ETE 188.45 ZAC 163.22 ETC 17.82 CLP 171.61

PLANETOCENTRIC CONIC

C3 126.701 VHL 11.256 CLA 14.60 RAL 116.52 RAD 6570.3 VEL 15.749 PTH 2.79 VHP 16.465 DPA 13.92 RAP 102.89 ECC 3.0852
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 19 3124.82 -26.99 105.43 16.64 81.11 8 12 23 2524.8 -27.95 96.89
 90.00 23 8 58 4825.87 18.76 208.37 4.51 68.39 24 29 24 4225.9 15.66 201.07
 100.00 8 49 29 2837.22 -28.75 84.58 16.95 81.45 9 36 47 2237.2 -29.64 75.88
 100.00 0 26 24 4588.70 20.41 190.23 3.80 67.67 1 42 53 3988.7 17.20 182.90
 110.00 10 15 15 2568.87 -33.41 64.97 17.72 82.33 10 58 4 1968.9 -34.11 55.80
 110.00 1 17 8 4429.81 24.73 176.16 1.78 65.62 2 30 58 3829.8 21.23 168.76

DIFFERENTIAL CORRECTIONS

TDE -2.6211 TRA10.2002 TC3 -.3982 BAU .6745
 RDE .4778 RRA .3484 RC3 -.0008 FAU .00123
 FDE -.5730 FRA 2.1773 FC3 .0084 BSP 18818
 BDE 2.6643 BRA10.2061 BC3 .3982 FSP -344

MID-COURSE EXECUTION ACCURACY

SGT 5600.9 SGR 304.5 SG3 102.1
 RRT .3871 RRF .3859 RTF .9844
 SGB 5609.2 R23 .0042 R13 .9844
 SGI 5602.2 SG2 280.7 THA 1.21

ORBIT DETERMINATION ACCURACY

ST 2090.8 SR 249.4 SS 641.1
 CRT -.4527 CRS .4632 CST -.9998
 LSA 2189.9 MSA 222.1 SSA 8.6
 ELI 2093.9 EL2 222.0 ALF 176.87

LAUNCH DATE FEB 19 1969

FLIGHT TIME 70.00

ARRIVAL DATE APR 30 1969

HELIOCENTRIC CONIC

DISTANCE 185.859

RL 147.90 LAL .00 LOL 150.18 VL 26.937 GAL -7.90 AZL 88.63 HCA 82.70 SMA 124.15 ECC .23411 INC 1.3669 V1 30.125
 RP 108.36 LAP 1.36 LOP 232.88 VP 37.157 GAP -11.43 AZP 89.83 TAL 208.05 TAP 290.75 RCA 95.08 APO 153.21 V2 34.974
 RC 51.881 GL 6.80 GP 15.13 ZAL 139.26 ZAP 18.26 ETS 307.87 ZAE 147.37 ETE 15.82 ZAC 128.41 ETC 150.26 CLP -10.35

PLANETOCENTRIC CONIC

C3 28.866 VHL 5.373 OLA 10.39 RAL 6.89 RAD 6568.2 VEL 12.257 PTH 2.21 VHP 7.998 DPA 27.89 RAP 34.78 ECC 1.4751
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 1 2632.36 -27.03 69.71 238.25 98.77 1 18 53 2032.4 -25.54 61.35
 90.00 15 11 44 4620.02 13.16 195.86 232.49 64.70 16 28 44 4020.0 9.64 188.95
 100.00 2 1 31 2353.37 -28.33 48.94 238.01 99.95 2 40 45 1753.4 -26.67 40.54
 100.00 16 27 55 4374.24 14.34 177.20 231.90 63.49 17 40 50 3774.2 10.67 170.34
 110.00 3 21 29 2103.15 -31.81 29.12 237.18 103.24 3 56 32 1503.1 -29.66 20.57
 110.00 17 24 27 4197.22 17.47 162.03 230.16 60.14 18 34 24 3597.2 13.37 155.32

DIFFERENTIAL CORRECTIONS

TOE -.2053 TRA -.3179 TC3 .4814 BAU .1961
 RDE -.3430 RRA .1908 RC3 .1623 FAU .04062
 FDE -.0725 FRA -.2428 FC3-1.2182 BSP 1871
 BDE .3997 BRA .3708 BC3 .5080 FSP -292

MID-COURSE EXECUTION ACCURACY

SGT 659.1 SGR 455.0 SG3 115.6
 RRT .3302 RRF -.4182 RTF -.6461
 SGB 800.8 R23 -.0701 R13 -.6779
 SG1 686.6 SG2 412.2 THA 20.53

ORBIT DETERMINATION ACCURACY

ST 242.6 SR 371.1 SS 81.1
 CRT .8192 CRS -.5325 CST -.8604
 LSA 429.8 MSA 132.2 SSA 30.3
 EL1 426.5 EL2 121.1 ALF 59.06

LAUNCH DATE FEB 19 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 192.624

RL 147.90 LAL .00 LOL 150.18 VL 27.111 GAL -7.86 AZL 88.82 HCA 85.89 SMA 125.24 ECC .22548 INC 1.1834 V1 30.125
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.270 GAP -10.52 AZP 89.92 TAL 209.50 TAP 295.39 RCA 97.00 APO 153.48 V2 34.961
 RC 53.536 GL 6.05 GP 16.13 ZAL 140.86 ZAP 20.60 ETS 312.64 ZAE 146.54 ETE 17.83 ZAC 128.31 ETC 149.25 CLP -12.99

PLANETOCENTRIC CONIC

C3 27.651 VHL 5.258 OLA 9.10 RAL 5.79 RAD 6568.1 VEL 12.208 PTH 2.19 VHP 7.517 DPA 29.02 RAP 34.90 ECC 1.4551
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 58 2579.52 -26.43 65.96 235.77 100.56 1 23 58 1979.5 -24.70 57.71
 90.00 14 56 58 4651.40 14.06 197.72 230.78 65.17 16 14 29 4051.4 10.60 190.76
 100.00 2 6 46 2302.83 -27.68 45.33 235.49 101.75 2 45 8 1702.8 -25.78 37.04
 100.00 16 13 52 4403.32 15.22 178.91 230.21 63.96 17 27 15 3803.3 11.60 172.00
 110.00 3 25 8 2057.60 -31.05 25.79 234.57 105.07 3 59 25 1457.6 -28.67 17.39
 110.00 17 11 59 4221.32 18.28 163.42 228.53 60.60 18 22 20 3621.3 14.23 156.66

DIFFERENTIAL CORRECTIONS

TOE -.1921 TRA -.3012 TC3 .5178 BAU .2049
 RDE -.3296 RRA .1987 RC3 .1982 FAU .04449
 FDE -.1155 FRA -.2957 FC3-1.3929 BSP 1949
 BDE .3815 BRA .3609 BC3 .5544 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 671.4 SGR 469.6 SG3 130.1
 RRT .3672 RRF -.4690 RTF -.6555
 SGB 819.3 R23 -.0827 R13 -.6951
 SG1 706.4 SG2 415.2 THA 22.58

ORBIT DETERMINATION ACCURACY

ST 232.4 SR 365.2 SS 107.4
 CRT .8096 CRS -.6373 CST -.9205
 LSA 423.8 MSA 135.3 SSA 32.2
 EL1 416.0 EL2 119.8 ALF 60.00

LAUNCH DATE FEB 19 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 199.372

RL 147.90 LAL .00 LOL 150.18 VL 27.265 GAL -7.84 AZL 89.00 HCA 89.08 SMA 126.24 ECC .21793 INC 1.0015 V1 30.125
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.370 GAP -9.66 AZP 89.98 TAL 210.90 TAP 299.98 RCA 98.73 APO 153.75 V2 34.948
 RC 55.282 GL 5.25 GP 17.24 ZAL 142.36 ZAP 23.19 ETS 316.55 ZAE 145.89 ETE 20.03 ZAC 128.02 ETC 148.26 CLP -15.76

PLANETOCENTRIC CONIC

C3 26.645 VHL 5.162 OLA 7.80 RAL 4.80 RAD 6568.1 VEL 12.166 PTH 2.18 VHP 7.068 DPA 30.20 RAP 34.84 ECC 1.4385
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 18 2528.34 -25.74 62.37 233.55 102.23 1 29 26 1928.3 -23.80 54.24
 90.00 14 42 47 4684.14 14.99 199.68 229.32 65.69 16 0 51 4084.1 11.58 192.66
 100.00 2 12 24 2253.88 -26.96 41.87 233.24 103.43 2 49 58 1653.9 -24.84 33.71
 100.00 16 0 22 4433.84 16.12 180.73 228.77 64.48 17 14 16 3833.8 12.56 173.76
 110.00 3 29 13 2013.48 -30.22 22.61 232.24 106.79 4 2 46 1413.5 -27.63 14.38
 110.00 17 0 3 4247.00 19.13 164.93 227.15 61.12 18 10 50 3647.0 15.13 158.10

DIFFERENTIAL CORRECTIONS

TDE -.1769 TRA -.2849 TC3 .5513 BAU .2141
 RDE -.3150 RRA .2081 RC3 .2394 FAU .04885
 FDE -.1678 FRA -.3549 FC3-1.5873 BSP 2056
 BDE .3612 BRA .3529 BC3 .6011 FSP -387

MID-COURSE EXECUTION ACCURACY

SGT 681.5 SGR 487.5 SG3 146.6
 RRT .4060 RRF -.5231 RTF -.6654
 SGB 837.9 R23 -.0949 R13 -.7144
 SG1 726.1 SG2 418.2 THA 24.98

ORBIT DETERMINATION ACCURACY

ST 219.1 SR 356.6 SS 138.3
 CRT .7943 CRS -.6981 CST -.9498
 LSA 416.9 MSA 139.3 SSA 33.8
 EL1 401.5 EL2 118.2 ALF 61.27

LAUNCH DATE FEB 19 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 206.101

RL 147.90 LAL .00 LOL 150.18 VL 27.401 GAL -7.82 AZL 89.18 HCA 92.26 SMA 127.14 ECC .21135 INC .8201 V1 30.125
 RP 108.47 LAP .82 LOP 242.44 VP 37.458 GAP -8.84 AZP 90.03 TAL 212.25 TAP 304.51 RCA 100.27 APO 154.02 V2 34.936
 RC 57.109 GL 4.39 GP 18.46 ZAL 143.75 ZAP 26.01 ETS 319.83 ZAE 145.42 ETE 22.49 ZAC 127.55 ETC 147.30 CLP -18.66

PLANETOCENTRIC CONIC

C3 25.809 VHL 5.080 OLA 6.49 RAL 3.95 RAD 6568.0 VEL 12.132 PTH 2.17 VHP 6.652 DPA 31.43 RAP 34.59 ECC 1.4247
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 59 2478.81 -24.98 58.94 231.60 103.79 1 35 18 1878.8 -22.84 50.92
 90.00 14 29 15 4717.89 15.92 201.72 228.10 66.27 15 47 53 4117.9 12.58 194.63
 100.00 2 18 25 2206.49 -26.17 38.57 231.26 104.99 2 55 12 1606.5 -23.85 30.54
 100.00 15 47 30 4465.44 17.04 182.63 227.58 65.06 17 1 56 3865.4 13.54 175.59
 110.00 3 33 44 1970.80 -29.35 19.60 230.18 108.37 4 6 35 1370.8 -26.56 11.53
 110.00 16 48 41 4273.90 20.01 166.52 226.01 61.69 17 59 55 3673.9 16.07 159.62

DIFFERENTIAL CORRECTIONS

TDE -.1630 TRA -.2728 TC3 .5759 BAU .2218
 RDE -.2990 RRA .2187 RC3 .2859 FAU .05362
 FDE -.2284 FRA -.4182 FC3-1.7988 BSP 2123
 BDE .3405 BRA .3496 BC3 .6429 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 687.0 SGR 509.7 SG3 164.7
 RRT .4429 RRF -.5786 RTF -.6683
 SGB 855.4 R23 -.1105 R13 -.7306
 SG1 744.2 SG2 421.8 THA 27.81

ORBIT DETERMINATION ACCURACY

ST 206.7 SR 345.4 SS 172.1
 CRT .7733 CRS -.7326 CST -.9633
 LSA 411.7 MSA 144.6 SSA 35.0
 EL1 385.0 EL2 117.6 ALF 62.37

LAUNCH DATE FEB 19 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 212.808

RL 147.90 LAL .00 LOL 150.18 VL 27.522 GAL -7.80 AZL 89.36 MCA 95.45 SMA 127.95 ECC .20564 INC .6381 VI 30.125
 RP 108.51 LAP .64 LOP 245.62 VP 37.535 GAP -8.06 AZP 90.06 TAL 213.52 TAP 308.96 RCA 101.64 APO 154.27 V2 34.923
 RC 59.010 GL 3.47 GP 19.80 ZAL 145.01 ZAP 29.05 ETS 322.63 ZAE 145.09 ETE 25.26 ZAC 126.86 ETC 146.41 CLP -21.71

PLANETOCENTRIC CONIC

C3 25.114 VHL 5.011 DLA 5.18 RAL 3.22 RAD 6568.0 VEL 12.103 PTH 2.17 VHP 6.267 DPA 32.71 RAP 34.11 ECC 1.4133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 4 2430.82 -24.16 55.66 229.89 105.23 1 41 35 1830.8 -21.84 47.76
 90.00 14 16 24 4752.40 16.86 203.82 227.13 66.91 15 35 36 4152.4 13.59 196.67
 100.00 2 24 51 2160.58 -25.32 35.42 229.53 106.45 3 0 52 1560.6 -22.82 27.52
 100.00 15 35 18 4497.87 17.96 184.60 226.62 65.70 16 50 16 3897.9 14.53 177.49
 110.00 3 38 42 1929.47 -28.43 16.74 228.39 109.84 4 10 51 1329.5 -25.46 8.82
 110.00 16 37 57 4301.74 20.90 168.19 225.10 62.31 17 49 38 3701.7 17.03 161.21

DIFFERENTIAL CORRECTIONS

TOE -.1493 TRA -.2634 TC3 .5924 BAU .2291
 RDE -.2810 RRA .2308 RC3 .3385 FAU .05886
 FDE -.2994 FRA -.4865 FC3-2.0290 BSP 2189
 BDE .3182 BRA .3502 BC3 .6822 FSP -505

MID-COURSE EXECUTION ACCURACY

SGT 687.8 SGR 537.1 SG3 184.6
 RRT .4768 RRF -.6343 RTF -.6670
 SGB 872.7 R23 -.1267 R13 -.7472
 SG1 761.3 SG2 426.5 THA 31.17

ORBIT DETERMINATION ACCURACY

ST 194.1 SR 331.1 SS 209.0
 CRT .7438 CRS -.7514 CST -.9682
 LSA 408.7 MSA 150.6 SSA 35.8
 EL1 365.4 EL2 117.6 ALF 63.48

LAUNCH DATE FEB 19 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 219.491

RL 147.90 LAL .00 LOL 150.18 VL 27.627 GAL -7.79 AZL 89.55 MCA 98.63 SMA 128.68 ECC .20070 INC .4541 VI 30.125
 RP 108.55 LAP .45 LOP 248.80 VP 37.602 GAP -7.31 AZP 90.07 TAL 214.69 TAP 313.31 RCA 102.85 APO 154.50 V2 34.911
 RC 60.976 GL 2.51 GP 21.26 ZAL 146.14 ZAP 32.32 ETS 325.08 ZAE 144.88 ETE 28.38 ZAC 125.95 ETC 145.60 CLP -24.93

PLANETOCENTRIC CONIC

C3 24.534 VHL 4.953 DLA 3.88 RAL 2.63 RAD 6568.0 VEL 12.079 PTH 2.16 VHP 5.914 DPA 34.05 RAP 33.37 ECC 1.4038
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 32 2384.22 -23.29 52.52 228.43 106.58 1 48 17 1784.2 -20.80 44.74
 90.00 14 4 13 4787.49 17.78 205.98 226.38 67.59 15 24 1 4187.5 14.59 198.76
 100.00 2 31 42 2116.00 -24.43 32.41 228.05 107.79 3 6 58 1516.0 -21.76 24.63
 100.00 15 23 45 4530.95 18.87 186.63 225.89 66.38 16 39 16 3931.0 15.52 179.44
 110.00 3 44 6 1889.38 -27.47 14.01 226.85 111.19 4 15 36 1289.4 -24.34 6.24
 110.00 16 27 50 4330.34 21.79 169.93 224.42 62.99 17 40 0 3730.3 18.00 162.86

DIFFERENTIAL CORRECTIONS

TOE -.1365 TRA -.2575 TC3 .5995 BAU .2359
 RDE -.2606 RRA .2442 RC3 .3976 FAU .06453
 FDE -.3813 FRA -.5581 FC3-2.2770 BSP 2251
 BDE .2942 BRA .3549 BC3 .7193 FSP -572

MID-COURSE EXECUTION ACCURACY

SGT 683.2 SGR 571.1 SG3 206.3
 RRT .5048 RRF -.6884 RTF -.6601
 SGB 890.4 R23 -.1422 R13 -.7647
 SG1 778.2 SG2 432.8 THA 35.18

ORBIT DETERMINATION ACCURACY

ST 182.4 SR 313.4 SS 248.6
 CRT .7032 CRS -.7584 CST -.9669
 LSA 409.2 MSA 156.7 SSA 36.2
 EL1 342.6 EL2 118.6 ALF 64.47

LAUNCH DATE FEB 19 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 226.147

RL 147.90 LAL .00 LOL 150.18 VL 27.719 GAL -7.77 AZL 89.73 MCA 101.80 SMA 129.31 ECC .19643 INC .2673 VI 30.125
 RP 108.58 LAP .26 LOP 251.98 VP 37.658 GAP -6.60 AZP 90.05 TAL 215.75 TAP 317.56 RCA 103.91 APO 154.71 V2 34.900
 RC 63.000 GL 1.50 GP 22.86 ZAL 147.13 ZAP 35.81 ETS 327.29 ZAE 144.77 ETE 31.92 ZAC 124.80 ETC 144.90 CLP -28.34

PLANETOCENTRIC CONIC

C3 24.048 VHL 4.904 DLA 2.58 RAL 2.18 RAD 6568.0 VEL 12.059 PTH 2.16 VHP 5.592 DPA 35.42 RAP 32.35 ECC 1.3958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 27 2338.79 -22.38 49.51 227.21 107.82 1 55 26 1738.8 -19.73 41.83
 90.00 13 52 41 4823.11 18.69 208.20 225.86 68.33 15 13 4 4223.1 15.59 200.90
 100.00 2 38 59 2072.55 -23.49 29.52 226.81 109.04 3 13 32 1472.6 -20.68 21.86
 100.00 15 12 50 4564.58 19.78 188.72 225.39 67.12 16 28 54 3964.6 16.51 181.45
 110.00 3 49 59 1850.33 -26.48 11.41 225.56 112.45 4 20 50 1250.3 -23.20 3.78
 110.00 16 18 19 4359.57 22.69 171.73 223.96 63.72 17 30 59 3759.6 18.97 164.57

DIFFERENTIAL CORRECTIONS

TOE -.1235 TRA -.2541 TC3 .5982 BAU .2435
 RDE -.2367 RRA .2594 RC3 .4644 FAU .07069
 FDE -.4773 FRA -.6343 FC3-2.5448 BSP 2346
 BDE .2670 BRA .3631 BC3 .7573 FSP -650

MID-COURSE EXECUTION ACCURACY

SGT 673.3 SGR 613.2 SG3 230.1
 RRT .5256 RRF -.7396 RTF -.6489
 SGB 910.7 R23 -.1523 R13 -.7857
 SG1 796.9 SG2 440.7 THA 39.95

ORBIT DETERMINATION ACCURACY

ST 170.6 SR 291.5 SS 292.4
 CRT .6446 CRS -.7538 CST -.9594
 LSA 414.7 MSA 162.1 SSA 36.3
 EL1 315.5 EL2 120.5 ALF 65.54

LAUNCH DATE FEB 19 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 232.776

RL 147.90 LAL .00 LOL 150.18 VL 27.798 GAL -7.76 AZL 89.92 MCA 104.98 SMA 129.87 ECC .19274 INC .0753 VI 30.125
 RP 108.62 LAP .07 LOP 255.16 VP 37.706 GAP -5.93 AZP 90.02 TAL 216.70 TAP 321.68 RCA 104.84 APO 154.90 V2 34.889
 RC 65.076 GL .43 GP 24.60 ZAL 147.96 ZAP 39.52 ETS 329.36 ZAE 144.69 ETE 35.93 ZAC 123.41 ETC 144.34 CLP -31.96

PLANETOCENTRIC CONIC

C3 23.639 VHL 4.862 DLA 1.28 RAL 1.86 RAD 6568.0 VEL 12.042 PTH 2.15 VHP 5.302 DPA 36.84 RAP 31.01 ECC 1.3890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 24 50 2294.28 -21.42 46.59 226.21 108.98 2 3 4 1694.3 -18.63 39.03
 90.00 13 41 46 4859.22 19.58 210.47 225.55 69.13 15 2 46 4259.2 16.57 203.09
 100.00 2 46 46 2029.99 -22.52 26.74 225.79 110.20 3 20 36 1430.0 -19.56 19.19
 100.00 15 2 31 4598.74 20.67 190.86 225.09 67.91 16 19 10 3998.7 17.49 183.51
 110.00 3 56 22 1812.12 -25.46 8.90 224.49 113.62 4 26 34 1212.1 -22.05 1.41
 110.00 16 9 24 4389.38 23.57 173.59 223.71 64.50 17 22 34 3789.4 19.94 166.33

DIFFERENTIAL CORRECTIONS

TOE -.1142 TRA -.2566 TC3 .5821 BAU .2505
 RDE -.2096 RRA .2755 RC3 .5383 FAU .07705
 FDE -.5838 FRA -.7089 FC3-2.8220 BSP 2412
 BDE .2387 BRA .3765 BC3 .7928 FSP -730

MID-COURSE EXECUTION ACCURACY

SGT 655.7 SGR 663.6 SG3 254.9
 RRT .5315 RRF -.7855 RTF -.6244
 SGB 932.9 R23 -.1587 R13 -.8071
 SG1 816.4 SG2 451.5 THA 45.65

ORBIT DETERMINATION ACCURACY

ST 163.2 SR 266.0 SS 337.6
 CRT .5684 CRS -.7359 CST -.9475
 LSA 427.3 MSA 165.6 SSA 36.0
 EL1 286.0 EL2 124.9 ALF 65.89

LAUNCH DATE FEB 19 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 239.376

RL 147.90 LAL .00 LOL 150.18 VL 27.866 GAL -7.74 AZL 90.12 HCA 108.15 SMA 130.35 ECC .18957 INC .1201 V1 30.125
 RP 108.65 LAP -.11 LOP 258.33 VP 37.746 GAP -5.28 AZP 89.96 TAL 217.52 TAP 325.68 RCA 105.64 APO 155.06 V2 34.878
 RC 67.198 GL -.69 GP 26.47 ZAL 148.64 ZAP 43.44 ETS 331.38 ZAE 144.59 ETE 40.44 ZAC 121.77 ETC 143.95 CLP -35.80

PLANETOCENTRIC CONIC

C3 23.293 VHL 4.826 CLA -.02 RAL 1.68 RAD 6567.9 VEL 12.028 PTH 2.15 VHP 5.045 DPA 38.28 RAP 29.33 ECC 1.3833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 44 2250.38 -20.42 43.76 225.43 110.05 2 11 15 1650.4 -17.51 36.30
 90.00 13 31 25 4895.92 20.46 212.81 225.44 69.98 14 53 0 4295.9 17.55 205.35
 100.00 2 55 4 1988.03 -21.51 24.03 224.99 111.28 3 28 12 1388.0 -18.42 16.59
 100.00 14 52 46 4633.50 21.54 193.08 225.00 68.76 16 9 59 4033.5 18.46 185.63
 110.00 4 3 17 1774.49 -24.41 6.48 223.65 114.70 4 32 52 1174.5 -20.88 359.12
 110.00 16 1 2 4419.80 24.45 175.52 223.67 65.33 17 14 42 3819.8 20.92 168.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1077 TRA -.2641 TC3 .5520 BAU -.2584 SGT 631.3 SGR 723.3 SG3 280.5 ST 159.6 SR 236.6 SS 385.2
 ROE -.1783 RRA .2924 RC3 .6198 FAU .08357 RRT .5190 RRF -.8254 RTF -.5855 CRT .4654 CRS -.6982 CST -.9317
 FOE -.7026 FRA -.7806 FC3-3.1060 BSP 2493 SGB 960.1 R23 -.1546 R13 -.8314 LSA 448.1 MSA 166.8 SSA 35.5
 BOE .2084 BRA .3940 BC3 .8299 FSP -.813 SG1 840.2 SG2 464.6 THA 52.37 EL1 253.0 EL2 132.1 ALF 65.49

LAUNCH DATE FEB 19 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 245.946

RL 147.90 LAL .00 LOL 150.18 VL 27.922 GAL -7.72 AZL 90.32 HCA 111.33 SMA 130.76 ECC .18684 INC .3243 V1 30.125
 RP 108.68 LAP -.30 LOP 261.50 VP 37.778 GAP -4.66 AZP 89.88 TAL 218.22 TAP 329.55 RCA 106.32 APO 155.19 V2 34.867
 RC 69.360 GL -1.87 GP 28.47 ZAL 149.16 ZAP 47.57 ETS 333.40 ZAE 144.42 ETE 45.47 ZAC 119.89 ETC 143.76 CLP -39.87

PLANETOCENTRIC CONIC

C3 23.000 VHL 4.796 CLA -1.33 RAL 1.63 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 4.820 DPA 39.73 RAP 27.28 ECC 1.3785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 15 2206.73 -19.38 40.98 224.86 111.06 2 20 2 1606.7 -16.34 33.62
 90.00 13 21 31 4933.40 21.31 215.23 225.54 70.90 14 43 45 4333.4 18.51 207.67
 100.00 3 3 59 1946.34 -20.45 21.38 224.40 112.29 3 36 25 1346.3 -17.25 14.05
 100.00 14 43 29 4669.02 22.40 195.37 225.12 69.67 16 1 18 4069.0 19.43 187.83
 110.00 4 10 48 1737.17 -23.33 4.12 223.02 115.72 4 39 45 1137.2 -19.68 356.89
 110.00 15 53 9 4450.96 25.32 177.52 223.82 66.23 17 7 20 3851.0 21.89 170.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1039 TRA -.2756 TC3 .5089 BAU .2686 SGT 601.8 SGR 793.7 SG3 307.0 ST 159.3 SR 203.7 SS 436.5
 ROE -.1417 RRA .3105 RC3 .7099 FAU .09016 RRT .4839 RRF -.8596 RTF -.5288 CRT .3179 CRS -.6236 CST -.9135
 FOE -.8354 FRA -.8493 FC3-3.3938 BSP 2622 SGB 996.0 R23 -.1358 R13 -.8586 LSA 478.3 MSA 165.5 SSA 34.8
 BOE .1757 BRA .4152 BC3 .8734 FSP -.904 SG1 873.6 SG2 478.4 THA 60.04 EL1 215.7 EL2 142.6 ALF 63.98

LAUNCH DATE FEB 19 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 252.485

RL 147.90 LAL .00 LOL 150.18 VL 27.969 GAL -7.69 AZL 90.54 HCA 114.49 SMA 131.09 ECC .18450 INC .5372 V1 30.125
 RP 108.72 LAP -.49 LOP 264.67 VP 37.804 GAP -4.07 AZP 89.78 TAL 218.79 TAP 333.28 RCA 106.91 APO 155.28 V2 34.858
 RC 71.560 GL -3.12 GP 30.59 ZAL 149.51 ZAP 51.88 ETS 335.50 ZAE 144.10 ETE 50.99 ZAC 117.78 ETC 143.78 CLP -44.19

PLANETOCENTRIC CONIC

C3 22.752 VHL 4.770 CLA -2.66 RAL 1.72 RAD 6567.9 VEL 12.005 PTH 2.14 VHP 4.629 DPA 41.17 RAP 24.85 ECC 1.3744
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 27 2162.95 -18.28 38.24 224.48 112.01 2 29 30 1563.0 -15.14 30.97
 90.00 13 12 2 4971.90 22.15 217.74 225.83 71.89 14 34 54 4371.9 19.47 210.09
 100.00 3 13 34 1904.56 -19.35 18.77 224.01 113.24 3 45 18 1304.6 -16.04 11.54
 100.00 14 34 37 4705.53 23.24 197.75 225.43 70.66 15 53 2 4105.5 20.39 190.11
 110.00 4 18 58 1699.82 -22.21 1.81 222.59 116.68 4 47 17 1099.8 -18.45 354.69
 110.00 15 45 42 4483.02 26.18 179.61 224.18 67.20 17 0 25 3883.0 22.86 172.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1066 TRA -.2943 TC3 .4462 BAU .2802 SGT 568.2 SGR 872.2 SG3 332.0 ST 166.8 SR 170.5 SS 487.7
 ROE -.1005 RRA .3276 RC3 .8058 FAU .09629 RRT .4102 RRF -.8873 RTF -.4366 CRT .1126 CRS -.4825 CST -.9002
 FOE -.9742 FRA -.9041 FC3-3.6639 BSP 2752 SGB 1040.9 R23 -.1053 R13 -.8846 LSA 517.0 MSA 162.1 SSA 33.9
 BOE .1465 BRA .4404 BC3 .9211 FSP -.987 SG1 916.8 SG2 493.0 THA 68.56 EL1 178.1 EL2 158.7 ALF 50.56

LAUNCH DATE FEB 19 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 258.994

RL 147.90 LAL .00 LOL 150.18 VL 28.007 GAL -7.65 AZL 90.76 HCA 117.66 SMA 131.37 ECC .18247 INC .7610 V1 30.125
 RP 108.74 LAP -.67 LOP 267.84 VP 37.823 GAP -3.51 AZP 89.65 TAL 219.23 TAP 336.89 RCA 107.40 APO 155.34 V2 34.848
 RC 73.792 GL -4.45 GP 32.81 ZAL 149.69 ZAP 56.35 ETS 337.73 ZAE 143.55 ETE 56.95 ZAC 115.46 ETC 144.04 CLP -48.76

PLANETOCENTRIC CONIC

C3 22.544 VHL 4.748 CLA -4.01 RAL 1.95 RAD 6567.9 VEL 11.997 PTH 2.14 VHP 4.473 DPA 42.57 RAP 22.05 ECC 1.3710
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 27 2118.61 -17.13 35.49 224.31 112.90 2 39 46 1518.6 -13.88 28.32
 90.00 13 2 50 5011.78 22.97 220.38 226.33 72.97 14 26 21 4411.8 20.42 212.63
 100.00 3 23 55 1862.27 -18.19 16.16 223.83 114.13 3 54 58 1262.3 -14.78 9.03
 100.00 14 26 3 4743.35 24.07 200.25 225.94 71.72 15 45 6 4143.3 21.35 192.51
 110.00 4 27 51 1662.11 -21.04 359.51 222.36 117.59 4 55 33 1062.1 -17.18 352.51
 110.00 15 38 36 4516.27 27.04 181.82 224.75 68.25 16 53 53 3916.3 23.85 174.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1155 TRA -.3185 TC3 .3660 BAU .2949 SGT 537.2 SGR 958.9 SG3 355.3 ST 181.3 SR 142.9 SS 540.1
 ROE -.0537 RRA .3437 RC3 .9074 FAU .10181 RRT .2879 RRF -.9095 RTF -.2996 CRT -.1976 CRS -.2095 CST -.8941
 FOE -1.1191 FRA -.9443 FC3-3.9097 BSP 2928 SGB 1099.1 R23 -.0653 R13 -.9080 LSA 565.0 MSA 157.2 SSA 32.9
 BOE .1273 BRA .4685 BC3 .9784 FSP -1066 SG1 976.0 SG2 505.5 THA 77.41 EL1 186.3 EL2 136.3 ALF 160.30

LAUNCH DATE FEB 19 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 265.472

RL 147.90 LAL .00 LOL 150.18 VL 28.037 GAL -7.61 AZL 91.00 MCA 120.83 SMA 131.58 ECC .18073 INC .9979 V1 30.125
RP 108.77 LAP -.86 LOP 271.01 VP 37.837 GAP -2.97 AZP 89.49 TAL 219.54 TAP 340.36 RCA 107.80 APO 155.37 V2 34.839
RC 76.053 GL -5.87 GP 35.10 ZAL 149.69 ZAP 60.93 ETS 340.15 ZAE 142.72 ETE 63.22 ZAC 112.96 ETC 144.55 CLP -53.57

PLANETOCENTRIC CONIC

C3 22.374 VHL 4.730 DLA -5.40 RAL 2.31 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 4.351 DPA 43.91 RAP 18.88 ECC 1.3682
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 2 16 24 2073.19 -15.91 32.72 224.35 113.74 2 50 57 1473.2 -12.56 25.64
90.00 12 53 47 5053.53 23.77 223.17 227.03 74.14 14 18 1 4453.5 21.37 215.33
100.00 3 35 11 1819.02 -16.97 13.53 223.84 114.98 4 5 30 1219.0 -13.46 6.50
100.00 14 17 41 4782.94 24.89 202.91 226.67 72.89 15 37 24 4182.9 22.31 195.06
110.00 4 37 36 1623.65 -19.81 357.20 222.34 118.45 5 4 39 1023.7 -15.85 350.31
110.00 15 31 46 4551.07 27.90 184.16 225.52 69.39 16 47 37 3951.1 24.84 176.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1311 TRA -.3471 TC3 .2686 BAU .3137 SGT 517.8 SGR 1053.3 SG3 376.1 ST 203.3 SR 133.9 SS 594.8
RDE -.0001 RRA .3582 RC3 1.0136 FAU .10649 RRT .1094 RRF -.9272 RTF -.1103 CRT -.5994 CRS .2329 CST -.8958
FDE -1.2694 FRA -.9667 FC3 -4.1205 BSP 3180 SGB 1173.7 R23 -.0229 R13 -.9270 LSA 623.7 MSA 151.7 SSA 31.6
BDE .1311 BRA .4987 BC3 1.0486 FSP -1143 SG1 1055.3 SG2 513.7 THA 85.96 EL1 223.0 EL2 97.7 ALF 152.83

LAUNCH DATE FEB 19 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 271.919

RL 147.90 LAL .00 LOL 150.18 VL 28.059 GAL -7.57 AZL 91.25 MCA 123.99 SMA 131.75 ECC .17922 INC 1.2509 V1 30.125
RP 108.80 LAP -1.04 LOP 274.17 VP 37.846 GAP -2.46 AZP 89.30 TAL 219.72 TAP 343.71 RCA 108.13 APO 155.36 V2 34.831
RC 78.340 GL -7.40 GP 37.43 ZAL 149.50 ZAP 65.57 ETS 342.79 ZAE 141.57 ETE 69.66 ZAC 110.33 ETC 145.29 CLP -58.61

PLANETOCENTRIC CONIC

C3 22.243 VHL 4.716 DLA -6.85 RAL 2.82 RAD 6567.9 VEL 11.984 PTH 2.14 VHP 4.265 DPA 45.16 RAP 15.40 ECC 1.3661
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 2 29 27 2026.14 -14.60 29.89 224.59 114.54 3 3 13 1426.1 -11.16 22.89
90.00 12 44 47 5097.73 24.56 226.17 227.95 75.45 14 9 44 4497.7 22.32 218.22
100.00 3 47 32 1774.28 -15.66 10.85 224.07 115.79 4 17 6 1174.3 -12.07 3.91
100.00 14 9 23 4824.83 25.70 205.76 227.61 74.19 15 29 48 4224.8 23.28 197.79
110.00 4 48 18 1584.00 -18.50 354.86 222.52 119.27 5 14 42 984.0 -14.46 348.08
110.00 15 25 6 4587.87 28.75 186.68 226.53 70.66 16 41 34 3987.9 25.85 178.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1578 TRA -.3816 TC3 .1504 BAU .3356 SGT 524.1 SGR 1149.4 SG3 391.7 ST 237.0 SR 155.8 SS 647.3
RDE .0584 RRA .3680 RC3 1.1186 FAU .10968 RRT -.1230 RRF -.9408 RTF .1299 CRT -.8759 CRS .6337 CST -.9060
FDE -1.4126 FRA -.9657 FC3 -4.2689 BSP 3460 SGB 1263.2 R23 .0157 R13 -.9408 LSA 690.8 MSA 146.0 SSA 30.2
BDE .1678 BRA .5301 BC3 1.1287 FSP -1198 SG1 1151.6 SG2 519.1 THA 94.03 EL1 276.2 EL2 64.5 ALF 148.12

LAUNCH DATE FEB 19 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 278.335

RL 147.90 LAL .00 LOL 150.18 VL 28.074 GAL -7.51 AZL 91.52 MCA 127.15 SMA 131.86 ECC .17791 INC 1.5235 V1 30.125
RP 108.82 LAP -1.21 LOP 277.34 VP 37.850 GAP -1.96 AZP 89.08 TAL 219.79 TAP 346.94 RCA 108.40 APO 155.31 V2 34.824
RC 80.651 GL -9.05 GP 39.79 ZAL 149.12 ZAP 70.20 ETS 345.69 ZAE 140.07 ETE 76.12 ZAC 107.62 ETC 146.26 CLP -63.85

PLANETOCENTRIC CONIC

C3 22.156 VHL 4.707 DLA -8.36 RAL 3.47 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 4.216 DPA 46.31 RAP 11.66 ECC 1.3646
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 2 43 50 1976.80 -13.18 26.96 225.06 115.29 3 16 47 1376.8 -9.67 20.04
90.00 12 35 36 5145.18 25.33 229.43 229.12 76.91 14 1 22 4545.2 23.28 221.36
100.00 4 1 8 1727.44 -14.26 8.08 224.52 116.55 4 29 55 1127.4 -10.58 1.23
100.00 14 1 0 4869.76 26.50 208.86 228.80 75.63 15 22 10 4269.8 24.26 200.77
110.00 5 0 8 1542.68 -17.11 352.47 222.92 120.05 5 25 51 942.7 -12.99 345.78
110.00 15 18 29 4627.29 29.61 189.43 227.78 72.08 16 35 36 4027.3 26.88 181.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1937 TRA -.4190 TC3 .0157 BAU .3620 SGT 567.0 SGR 1247.9 SG3 402.6 ST 282.0 SR 207.2 SS 700.8
RDE .1238 RRA .3737 RC3 1.2220 FAU .11145 RRT -.3611 RRF -.9515 RTF .3716 CRT -.9730 CRS .8447 CST -.9197
FDE -1.5512 FRA -.9414 FC3 -4.3549 BSP 3826 SGB 1370.7 R23 .0474 R13 -.9508 LSA 770.1 MSA 140.7 SSA 28.5
BDE .2299 BRA .5614 BC3 1.2221 FSP -1245 SG1 1268.1 SG2 520.4 THA 101.23 EL1 347.8 EL2 38.7 ALF 143.93

LAUNCH DATE FEB 19 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 284.722

RL 147.90 LAL .00 LOL 150.18 VL 28.082 GAL -7.45 AZL 91.82 MCA 130.31 SMA 131.92 ECC .17678 INC 1.8196 V1 30.125
RP 108.84 LAP -1.39 LOP 280.50 VP 37.850 GAP -1.49 AZP 88.82 TAL 219.74 TAP 350.05 RCA 108.60 APO 155.24 V2 34.816
RC 82.981 GL -10.84 GP 42.14 ZAL 148.52 ZAP 74.76 ETS 348.84 ZAE 138.23 ETE 82.43 ZAC 104.87 ETC 147.44 CLP -69.24

PLANETOCENTRIC CONIC

C3 22.121 VHL 4.703 DLA -9.96 RAL 4.28 RAD 6567.9 VEL 11.979 PTH 2.13 VHP 4.205 DPA 47.36 RAP 7.72 ECC 1.3640
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 2 59 51 1924.35 -11.63 23.88 225.77 116.00 3 31 55 1324.4 -8.04 17.04
90.00 12 26 4 5196.85 26.08 233.03 230.54 78.56 13 52 41 4596.8 24.24 224.85
100.00 4 16 16 1677.80 -12.73 5.19 225.21 117.28 4 44 14 1077.8 -8.97 358.42
100.00 13 52 20 4918.63 27.28 212.28 230.25 77.27 15 14 19 4318.6 25.25 204.07
110.00 5 13 20 1499.12 -15.61 349.99 223.56 120.80 5 38 19 899.1 -11.41 343.40
110.00 15 11 46 4670.07 30.47 192.47 229.31 73.70 16 29 36 4070.1 27.93 184.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2437 TRA -.4593 TC3 -.1365 BAU .3910 SGT 653.7 SGR 1340.6 SG3 406.3 ST 342.3 SR 275.7 SS 750.9
RDE .1936 RRA .3715 RC3 1.3152 FAU .11121 RRT -.5590 RRF -.9596 RTF .5703 CRT -.9923 CRS .9307 CST -.9344
FDE -1.6720 FRA -.8864 FC3 -4.3525 BSP 4216 SGB 1491.5 R23 .0730 R13 -.9576 LSA 858.9 MSA 136.4 SSA 26.6
BDE .3112 BRA .5907 BC3 1.3222 FSP -1263 SG1 1398.0 SG2 519.8 THA 107.79 EL1 438.7 EL2 26.6 ALF 141.20

LAUNCH DATE FEB 19 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 291.078

RL 147.90 LAL .00 LOL 150.18 VL 28.085 GAL -7.38 AZL 92.14 MCA 133.47 SMA 131.94 ECC .17580 INC 2.1447 V1 30.125
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.846 GAP -1.04 AZP 88.52 TAL 219.58 TAP 353.05 RCA 108.74 APO 155.13 V2 34.810
 RC 85.328 GL -12.80 GP 44.47 ZAL 147.68 ZAP 79.17 ETS 352.26 ZAE 136.08 ETE 88.47 ZAC 102.15 ETC 148.79 CLP -74.74

PLANETOCENTRIC CONIC

C3 22.151 VHL 4.707 DLA -11.68 RAL 5.26 RAD 6567.9 VEL 11.980 PTH 2.14 VHP 4.232 DPA 48.31 RAP 3.67 ECC 1.3646
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 51 1867.81 -9.93 20.61 226.78 116.66 3 48 59 1267.8 -6.27 13.84
 90.00 12 15 53 5254.06 26.79 237.07 232.26 80.47 13 43 27 4654.1 25.20 228.76
 100.00 4 33 17 1624.48 -11.04 2.13 226.19 117.95 5 0 21 1024.5 -7.22 355.43
 100.00 13 43 9 4972.63 28.03 216.12 232.01 79.16 15 6 2 4372.6 26.25 207.77
 110.00 5 28 8 1452.68 -13.97 347.38 224.48 121.52 5 52 21 852.7 -9.70 340.89
 110.00 15 4 47 4717.19 31.32 195.87 231.16 75.55 16 23 24 4117.2 29.02 187.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3075 TRA -.4992 TC3 -.2999 BAU .4233 SGT 777.8 SGR 1428.7 SG3 404.0 ST 418.2 SR 357.4 SS 800.6
 RDE .2699 RRA .3623 RC3 1.3975 FAU .10926 RRT -.6964 RRF -.9660 RTF .7069 CRT -.9934 CRS .9672 CST -.9478
 FDE-1.7787 FRA -.8104 FC3-4.2701 BSP 4675 SGB 1626.7 R23 .0926 R13 -.9627 LSA 961.9 MSA 133.1 SSA 24.4
 BOE .4091 BRA .6168 BC3 1.4294 FSP -1267 SG1 1542.4 SG2 517.0 THA 113.57 EL1 549.2 EL2 31.2 ALF 139.51

LAUNCH DATE FEB 19 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 297.405

RL 147.90 LAL .00 LOL 150.18 VL 28.082 GAL -7.30 AZL 92.51 MCA 136.62 SMA 131.92 ECC .17495 INC 2.5055 V1 30.125
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.839 GAP -.60 AZP 88.18 TAL 219.31 TAP 355.94 RCA 108.84 APO 155.00 V2 34.804
 RC 87.691 GL -14.95 GP 46.77 ZAL 146.60 ZAP 83.36 ETS 355.94 ZAE 133.65 ETE 94.15 ZAC 99.49 ETC 150.27 CLP -80.28

PLANETOCENTRIC CONIC

C3 22.269 VHL 4.719 DLA -13.54 RAL 6.43 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 4.299 DPA 49.19 RAP 359.58 ECC 1.3665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 38 22 1805.90 -8.02 17.06 228.12 117.25 4 8 28 1205.9 -4.30 10.35
 90.00 12 4 41 5318.53 27.43 241.68 234.33 82.69 13 33 19 4718.5 26.14 233.25
 100.00 4 52 37 1566.36 -9.17 358.83 227.50 118.58 5 18 43 966.4 -5.28 352.20
 100.00 13 33 7 5033.31 28.73 220.49 234.13 81.36 14 57 0 4433.3 27.23 212.01
 110.00 5 44 55 1402.56 -12.17 344.62 225.71 122.19 6 8 17 802.6 -7.84 338.21
 110.00 14 57 19 4769.87 32.15 199.76 233.39 77.70 16 16 48 4169.9 30.12 191.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3887 TRA -.5373 TC3 -.4721 BAU .4566 SGT 933.6 SGR 1503.4 SG3 393.9 ST 513.2 SR 445.7 SS 845.8
 RDE .3499 RRA .3423 RC3 1.4594 FAU .10523 RRT -.7845 RRF -.9709 RTF .7939 CRT -.9917 CRS .9837 CST -.9590
 FDE-1.8602 FRA -.7076 FC3-4.0909 BSP 5142 SGB 1769.7 R23 .1090 R13 -.9661 LSA 1076.9 MSA 131.4 SSA 21.9
 BOE .5230 BRA .6371 BC3 1.5338 FSP -1239 SG1 1693.4 SG2 514.0 THA 118.88 EL1 678.4 EL2 43.2 ALF 139.06

LAUNCH DATE FEB 19 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 303.703

RL 147.90 LAL .00 LOL 150.18 VL 28.075 GAL -7.22 AZL 92.91 MCA 139.78 SMA 131.86 ECC .17421 INC 2.9109 V1 30.125
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.829 GAP -.19 AZP 87.78 TAL 218.95 TAP 358.72 RCA 108.89 APO 154.84 V2 34.799
 RC 90.065 GL -17.35 GP 49.05 ZAL 145.23 ZAP 87.26 ETS 359.85 ZAE 131.00 ETE 99.42 ZAC 96.93 ETC 151.83 CLP -85.82

PLANETOCENTRIC CONIC

C3 22.505 VHL 4.744 DLA -15.56 RAL 7.80 RAD 6567.9 VEL 11.995 PTH 2.14 VHP 4.410 DPA 50.03 RAP 355.48 ECC 1.3704
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 8 1736.85 -5.84 13.15 229.87 117.76 4 31 5 1136.9 -2.08 6.49
 90.00 11 51 53 5392.70 27.96 247.04 236.80 85.33 13 21 46 4792.7 27.02 238.50
 100.00 5 14 55 1501.99 -7.06 355.22 229.21 119.12 5 39 57 902.0 -3.12 348.65
 100.00 13 21 47 5102.79 29.33 225.57 236.65 83.97 14 46 49 4502.8 28.19 216.95
 110.00 6 4 8 1347.80 -10.17 341.64 227.32 122.81 6 26 36 747.8 -5.77 335.31
 110.00 14 49 3 4829.74 32.93 204.25 236.07 80.26 16 9 33 4229.7 31.23 195.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.4886 TRA -.5699 TC3 -.6447 BAU .4916 SGT 1110.4 SGR 1569.0 SG3 378.5 ST 628.1 SR 542.2 SS 890.1
 RDE .4368 RRA .3133 RC3 1.5014 FAU .09972 RRT -.8399 RRF -.9749 RTF .8484 CRT -.9905 CRS .9918 CST -.9681
 FDE-1.9235 FRA -.5914 FC3-3.8360 BSP 5667 SGB 1922.2 R23 .1220 R13 -.9688 LSA 1209.7 MSA 130.9 SSA 19.4
 BOE .6554 BRA .6504 BC3 1.6340 FSP -1200 SG1 1853.2 SG2 510.2 THA 123.61 EL1 827.8 EL2 56.5 ALF 139.24

LAUNCH DATE FEB 19 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 309.972

RL 147.90 LAL .00 LOL 150.18 VL 28.063 GAL -7.12 AZL 93.37 MCA 142.93 SMA 131.78 ECC .17356 INC 3.3726 V1 30.125
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.816 GAP .21 AZP 87.31 TAL 218.49 TAP 1.41 RCA 108.91 APO 154.65 V2 34.795
 RC 92.449 GL -20.02 GP 51.34 ZAL 143.54 ZAP 90.81 ETS 3.99 ZAE 128.15 ETE 104.25 ZAC 94.49 ETC 153.45 CLP -91.30

PLANETOCENTRIC CONIC

C3 22.905 VHL 4.786 DLA -17.79 RAL 9.42 RAD 6567.9 VEL 12.012 PTH 2.14 VHP 4.567 DPA 50.90 RAP 351.41 ECC 1.3770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 14 1658.04 -3.33 8.72 232.16 118.14 4 57 52 1058.0 .46 2.09
 90.00 11 36 40 5480.09 28.28 253.41 239.72 88.51 13 8 0 4880.1 27.77 244.78
 100.00 5 41 8 1429.26 -4.63 351.19 231.44 119.56 6 4 57 829.3 -.66 344.65
 100.00 13 8 27 5184.10 29.76 231.57 239.65 87.10 14 34 51 4584.1 29.04 222.84
 110.00 6 26 29 1287.15 -7.91 338.39 229.42 123.36 6 47 56 687.1 -3.47 332.12
 110.00 14 39 35 4898.98 33.60 209.54 239.28 83.32 16 1 14 4299.0 32.31 200.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.6111 TRA -.5944 TC3 -.8107 BAU .5257 SGT 1302.3 SGR 1616.7 SG3 356.7 ST 765.5 SR 641.5 SS 929.1
 RDE .5278 RRA .2716 RC3 1.5132 FAU .09253 RRT -.8746 RRF -.9781 RTF .8826 CRT -.9900 CRS .9959 CST -.9750
 FDE-1.9597 FRA -.4589 FC3-3.4973 BSP 6172 SGB 2076.0 R23 .1339 R13 -.9705 LSA 1357.6 MSA 132.0 SSA 16.7
 BOE .8074 BRA .6535 BC3 1.7167 FSP -1133 SG1 2013.1 SG2 507.0 THA 128.00 EL1 996.4 EL2 69.5 ALF 140.08

LAUNCH DATE FEB 19 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 147.90 LAL .00 LOL 150.18 VL 28.047 GAL -7.02 AZL 93.91 MCA 146.07 SMA 131.66 ECC .17300 INC 3.9067 V1 30.125
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.800 GAP .59 AZP 86.76 TAL 217.94 TAP 4.01 RCA 108.88 APO 154.44 V2 34.791
 RC 94.840 GL -23.01 GP 53.68 ZAL 141.50 ZAP 93.95 ETS 8.34 ZAE 125.13 ETE 108.68 ZAC 92.18 ETC 155.10 CLP -96.68

PLANETOCENTRIC CONIC

C3 23.542 VHL 4.852 OLA -20.26 RAL 11.31 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 4.779 DPA 51.81 RAP 347.34 ECC 1.3874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 28 1565.06 -3.33 3.53 235.16 118.32 5 30 33 965.1 3.46 356.90
 90.00 11 17 33 5586.44 28.22 261.19 243.15 92.40 12 50 40 4986.4 28.26 252.52
 100.00 6 12 41 1344.89 -1.78 346.55 234.36 119.84 6 35 6 744.9 2.20 340.02
 100.00 12 52 1 5281.84 29.88 238.84 243.20 90.92 14 20 3 4681.8 29.69 230.04
 110.00 6 52 54 1218.87 -5.34 334.78 232.14 123.81 7 13 12 618.9 -8.86 328.55
 110.00 14 28 18 4980.62 34.07 215.87 243.12 87.04 15 51 18 4380.6 33.28 206.72

DIFFERENTIAL CORRECTIONS

TDE -7.607 TRA -6.607 TC3 -.9607 BAU .5588
 RDE .6257 RRA .2179 RC3 1.4933 FAU .08419
 FDE -1.9745 FRA -.3205 FC3 -3.0961 BSP 6688
 BDE .9850 BRA .6449 BC3 1.7756 FSP -1052

MID-COURSE EXECUTION ACCURACY

SGT 1503.3 SGR 1649.5 SG3 330.4
 RRT -.8969 RRF -.9808 RTF .9051
 SGB 2231.8 R23 .1445 R13 -.9718
 SG1 2174.0 SG2 504.3 THA 132.04

ORBIT DETERMINATION ACCURACY

ST 927.5 SR 744.7 SS 964.7
 CRT -.9900 CRS .9981 CST -.9805
 LSA 1525.5 MSA 134.4 SSA 14.2
 EL1 1186.6 EL2 82.2 ALF 141.30

LAUNCH DATE FEB 19 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 147.90 LAL .00 LOL 150.18 VL 28.028 GAL -6.91 AZL 94.54 MCA 149.22 SMA 131.52 ECC .17253 INC 4.5358 V1 30.125
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.783 GAP .96 AZP 86.10 TAL 217.30 TAP 6.52 RCA 108.83 APO 154.21 V2 34.788
 RC 97.236 GL -26.38 GP 56.13 ZAL 139.05 ZAP 96.63 ETS 12.91 ZAE 121.95 ETE 112.74 ZAC 89.99 ETC 156.79 CLP -101.96

PLANETOCENTRIC CONIC

C3 24.525 VHL 4.952 OLA -23.00 RAL 13.54 RAD 6568.0 VEL 12.079 PTH 2.16 VHP 5.055 DPA 52.83 RAP 343.20 ECC 1.4036
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 18 1448.89 3.41 357.05 239.19 118.13 6 12 27 848.9 7.15 350.36
 90.00 10 51 31 5722.66 27.44 271.07 247.07 97.29 12 26 54 5122.7 28.16 262.48
 100.00 6 52 10 1242.79 1.68 340.94 238.23 119.85 7 12 52 642.8 5.64 334.40
 100.00 12 30 21 5403.99 29.40 247.88 247.33 95.65 14 0 25 4804.0 29.87 239.11
 110.00 7 24 50 1140.36 -2.35 330.66 235.71 124.11 7 43 50 540.4 2.14 324.46
 110.00 14 14 10 5079.18 34.15 223.56 247.68 91.59 15 38 49 4479.2 33.99 214.32

DIFFERENTIAL CORRECTIONS

TDE -.9448 TRA -.6036 TC3 -1.0839 BAU .5907
 RDE .7332 RRA .1522 RC3 1.4391 FAU .07512
 FDE -1.9716 FRA -.1841 FC3 -2.6517 BSP 7231
 BDE 1.1959 BRA .6225 BC3 1.8017 FSP -963

MID-COURSE EXECUTION ACCURACY

SGT 1709.6 SGR 1669.7 SG3 301.2
 RRT -.9117 RRF -.9831 RTF .9208
 SGB 2389.7 R23 .1534 R13 -.9729
 SG1 2336.4 SG2 501.9 THA 135.74

ORBIT DETERMINATION ACCURACY

ST 1117.0 SR 851.3 SS 997.3
 CRT -.9903 CRS .9992 CST -.9847
 LSA 1716.9 MSA 137.5 SSA 11.8
 EL1 1401.2 EL2 94.2 ALF 142.76

LAUNCH DATE FEB 19 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 147.90 LAL .00 LOL 150.18 VL 28.005 GAL -6.79 AZL 95.29 MCA 152.36 SMA 131.35 ECC .17211 INC 5.2923 V1 30.125
 RP 108.94 LAP -2.45 LOP 302.64 VP 37.764 GAP 1.31 AZP 85.31 TAL 216.59 TAP 8.94 RCA 108.74 APO 153.96 V2 34.786
 RC 99.636 GL -30.18 GP 58.74 ZAL 136.14 ZAP 98.80 ETS 17.71 ZAE 118.60 ETE 116.51 ZAC 87.89 ETC 158.54 CLP -107.15

PLANETOCENTRIC CONIC

C3 26.032 VHL 5.102 OLA -26.06 RAL 16.19 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 5.413 DPA 53.98 RAP 338.86 ECC 1.4284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 51 28 1281.90 8.69 347.62 244.89 117.06 7 12 49 681.9 12.25 340.75
 90.00 10 9 30 631.02 24.98 307.00 251.20 103.80 10 20 1 31.0 26.63 298.72
 100.00 7 45 20 1107.92 6.22 333.51 243.55 119.30 8 3 48 507.9 10.08 326.84
 100.00 11 58 18 5568.27 27.71 259.79 251.89 101.69 13 31 6 4968.3 29.04 251.24
 110.00 8 4 47 1046.89 1.22 325.79 240.46 124.16 8 22 14 446.9 5.69 319.56
 110.00 13 55 21 5202.07 33.51 233.10 253.01 97.19 15 22 3 4602.1 34.14 223.91

DIFFERENTIAL CORRECTIONS

TDE -1.1732 TRA -.5778 TC3 -1.1670 BAU .6188
 RDE .8486 RRA .0699 RC3 1.3414 FAU .06534
 FDE -1.9459 FRA -.0484 FC3 -2.1729 BSP 7735
 BDE 1.4479 BRA .5820 BC3 1.7780 FSP -860

MID-COURSE EXECUTION ACCURACY

SGT 1917.1 SGR 1670.1 SG3 269.0
 RRT -.9209 RRF -.9851 RTF .9319
 SGB 2542.6 R23 .1619 R13 -.9738
 SG1 2492.8 SG2 500.7 THA 139.27

ORBIT DETERMINATION ACCURACY

ST 1335.6 SR 954.2 SS 1022.4
 CRT -.9907 CRS .9997 CST -.9881
 LSA 1928.6 MSA 141.5 SSA 9.6
 EL1 1638.0 EL2 105.8 ALF 144.54

LAUNCH DATE FEB 19 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

RL 147.90 LAL .00 LOL 150.18 VL 27.979 GAL -6.66 AZL 96.23 MCA 155.49 SMA 131.16 ECC .17177 INC 6.2257 V1 30.125
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.744 GAP 1.65 AZP 84.33 TAL 215.79 TAP 11.29 RCA 108.63 APO 153.69 V2 34.784
 RC 102.038 GL -34.46 GP 61.58 ZAL 132.71 ZAP 100.42 ETS 22.83 ZAE 115.05 ETE 120.13 ZAC 85.83 ETC 160.45 CLP -112.34

PLANETOCENTRIC CONIC

C3 28.364 VHL 5.326 OLA -29.45 RAL 19.36 RAD 6568.1 VEL 12.237 PTH 2.20 VHP 5.879 DPA 55.28 RAP 334.15 ECC 1.4668
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.57 7 33 48 1201.71 18.13 346.35 253.90 113.61 7 53 49 601.7 21.17 338.91
 98.43 9 52 26 753.86 18.14 313.47 253.90 113.60 10 5 0 153.9 21.18 306.03
 100.00 9 21 5 854.29 14.35 319.07 252.06 116.51 9 35 19 254.3 17.80 311.97
 100.00 10 47 50 5864.55 22.00 279.91 255.58 110.76 12 25 35 5264.6 24.63 272.09
 110.00 8 57 58 927.13 5.78 319.51 247.01 123.75 9 13 25 327.1 10.17 313.18
 110.00 13 27 27 5364.48 31.45 245.31 258.90 104.13 14 56 51 4764.5 33.07 236.46

DIFFERENTIAL CORRECTIONS

TDE -1.4644 TRA -.5229 TC3 -1.1985 BAU .6434
 RDE .9759 RRA -.0282 RC3 1.2010 FAU .05541
 FDE -1.9055 FRA .0757 FC3 -1.6913 BSP 8270
 BDE 1.7597 BRA .5237 BC3 1.6967 FSP -756

MID-COURSE EXECUTION ACCURACY

SGT 2128.1 SGR 1655.2 SG3 235.9
 RRT -.9267 RRF -.9867 RTF .9411
 SGB 2696.0 R23 .1679 R13 -.9749
 SG1 2649.4 SG2 499.6 THA 142.66

ORBIT DETERMINATION ACCURACY

ST 1587.7 SR 1050.6 SS 1041.8
 CRT -.9912 CRS .9999 CST -.9908
 LSA 2165.4 MSA 145.3 SSA 7.7
 EL1 1900.3 EL2 116.3 ALF 146.60

LAUNCH DATE FEB 19 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 340.902

RL 147.90 LAL .00 LOL 150.18 VL 27.951 GAL -6.52 AZL 97.41 HCA 158.62 SMA 130.96 ECC .17147 INC 7.4135 V1 30.125
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.722 GAP 1.97 AZP 83.09 TAL 214.93 TAP 13.55 RCA 108.50 APO 153.41 V2 34.783
 RC 104.441 GL -39.26 GP 64.75 ZAL 128.71 ZAP 101.44 ETS 28.41 ZAE 111.24 ETE 123.82 ZAC 83.75 ETC 162.69 CLP-117.70

PLANETOCENTRIC CONIC

C3 32.059 VHL 5.662 OLA -33.15 RAL 23.20 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 6.500 DPA 56.68 RAP 328.77 ECC 1.5276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.01 6 41 7 1446.81 19.29 5.40 260.76 117.49 7 5 14 846.8 22.82 358.12
 107.99 11 15 42 5858.21 19.31 278.14 260.77 117.48 12 53 21 5258.2 22.83 270.86
 72.01 6 41 7 1446.81 19.29 5.40 260.76 117.49 7 5 14 846.8 22.82 358.12
 107.99 11 15 42 5858.21 19.31 278.14 260.77 117.48 12 53 21 5258.2 22.83 270.86
 110.00 10 24 22 727.89 13.15 308.79 257.12 121.84 10 36 30 127.9 17.27 302.10
 110.00 12 31 38 5625.13 25.69 263.36 264.05 113.37 14 5 23 5025.1 28.62 255.41

DIFFERENTIAL CORRECTIONS

TDE-1.8444 TRA -4.242 TC3-1.1626 BAU .6603
 RDE 1.1076 RRA -.1493 RC3 1.0107 FAU .04535
 FDE-1.8459 FRA .1906 FC3-1.2248 BSP .8750
 BDE 2.1514 BRA .4497 BC3 1.5405 FSP -645

MID-COURSE EXECUTION ACCURACY

SGT 2340.9 SGR 1612.0 SG3 202.0
 RRT -.9292 RRF -.9877 RTF .9491
 SGB 2842.2 R23 .1717 R13 -.9764
 SG1 2798.2 SG2 498.6 THA 146.17

ORBIT DETERMINATION ACCURACY

ST 1873.1 SR 1122.6 SS 1050.0
 CRT -.9915 CRS .9999 CST -.9929
 LSA 2418.5 MSA 149.0 SSA 6.0
 EL1 2180.2 EL2 125.8 ALF 149.17

LAUNCH DATE FEB 19 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 346.998

RL 147.90 LAL .00 LOL 150.18 VL 27.920 GAL -6.37 AZL 98.99 HCA 161.74 SMA 130.74 ECC .17122 INC 8.9855 V1 30.125
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.699 GAP 2.28 AZP 81.46 TAL 213.99 TAP 15.72 RCA 108.35 APO 153.12 V2 34.783
 RC 106.844 GL -44.56 GP 68.33 ZAL 124.11 ZAP 101.81 ETS 34.78 ZAE 107.09 ETE 128.00 ZAC 81.54 ETC 165.67 CLP-123.65

PLANETOCENTRIC CONIC

C3 38.156 VHL 6.177 OLA -37.08 RAL 27.89 RAD 6568.5 VEL 12.630 PTH 2.29 VHP 7.353 DPA 58.12 RAP 322.36 ECC 1.6280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.99 6 19 28 1612.52 19.80 18.79 269.42 122.01 6 46 21 1012.5 23.88 11.79
 115.01 12 14 47 5780.41 19.82 272.31 269.43 122.00 13 51 8 5180.4 23.90 265.31
 64.99 6 19 28 1612.52 19.80 18.79 269.42 122.01 6 46 21 1012.5 23.88 11.79
 115.01 12 14 47 5780.41 19.82 272.31 269.43 122.00 13 51 8 5180.4 23.90 265.31
 64.99 6 19 28 1612.52 19.80 18.79 269.42 122.01 6 46 21 1012.5 23.88 11.79
 115.01 12 14 47 5780.41 19.82 272.31 269.43 122.00 13 51 8 5180.4 23.90 265.31

DIFFERENTIAL CORRECTIONS

TDE-2.3610 TRA -2.584 TC3-1.0504 BAU .6666
 RDE 1.2288 RRA -.2942 RC3 .7774 FAU .03562
 FDE-1.7737 FRA .2903 FC3 -.8082 BSP .9240
 BDE 2.6616 BRA .3916 BC3 1.3068 FSP -538

MID-COURSE EXECUTION ACCURACY

SGT 2563.2 SGR 1529.2 SG3 168.8
 RRT -.9285 RRF -.9872 RTF .9579
 SGB 2984.7 R23 .1700 R13 -.9788
 SG1 2943.5 SG2 494.4 THA 150.09

ORBIT DETERMINATION ACCURACY

ST 2192.2 SR 1144.7 SS 1047.3
 CRT -.9914 CRS .9996 CST -.9947
 LSA 2681.5 MSA 151.0 SSA 4.6
 EL1 2469.5 EL2 132.9 ALF 152.54

LAUNCH DATE FEB 19 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 353.055

RL 147.90 LAL .00 LOL 150.18 VL 27.887 GAL -6.20 AZL 101.18 HCA 164.83 SMA 130.50 ECC .17101 INC11.1766 V1 30.125
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.675 GAP 2.57 AZP 79.20 TAL 212.97 TAP 17.81 RCA 108.18 APO 152.82 V2 34.784
 RC 109.246 GL -50.24 GP 72.39 ZAL 118.93 ZAP 101.49 ETS 42.74 ZAE 102.45 ETE 133.58 ZAC 79.07 ETC 170.27 CLP-131.19

PLANETOCENTRIC CONIC

C3 48.865 VHL 6.990 OLA -41.04 RAL 33.67 RAD 6568.8 VEL 13.047 PTH 2.38 VHP 8.581 DPA 59.40 RAP 314.39 ECC 1.8042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.96 6 13 41 1757.40 19.13 30.38 280.17 127.03 6 42 58 1157.4 23.81 23.82
 121.04 13 6 44 5760.04 19.15 270.13 280.18 127.02 14 42 44 5160.0 23.83 263.57
 58.96 6 13 41 1757.40 19.13 30.38 280.17 127.03 6 42 58 1157.4 23.81 23.82
 121.04 13 6 44 5760.04 19.15 270.13 280.18 127.02 14 42 44 5160.0 23.83 263.57
 58.96 6 13 41 1757.40 19.13 30.38 280.17 127.03 6 42 58 1157.4 23.81 23.82
 121.04 13 6 44 5760.04 19.15 270.13 280.18 127.02 14 42 44 5160.0 23.83 263.57

DIFFERENTIAL CORRECTIONS

TDE-3.0979 TRA .0237 TC3 -.8597 BAU .6531
 RDE 1.2697 RRA -.4630 RC3 .5104 FAU .02634
 FDE-1.6916 FRA .3787 FC3 -.4666 BSP .9705
 BDE 3.3480 BRA .4636 BC3 .9998 FSP -435

MID-COURSE EXECUTION ACCURACY

SGT 2809.4 SGR 1358.5 SG3 137.1
 RRT -.9205 RRF -.9815 RTF .9681
 SGB 3120.6 R23 .1612 R13 -.9822
 SG1 3082.9 SG2 483.6 THA 155.36

ORBIT DETERMINATION ACCURACY

ST 2539.5 SR 1051.8 SS 1032.1
 CRT -.9901 CRS .9985 CST -.9963
 LSA 2932.2 MSA 150.6 SSA 3.5
 EL1 2745.3 EL2 136.8 ALF 157.64

LAUNCH DATE FEB 19 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 359.060

RL 147.90 LAL .00 LOL 150.18 VL 27.852 GAL -6.02 AZL 104.45 HCA 167.90 SMA 130.25 ECC .17080 INC14.4536 V1 30.125
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.650 GAP 2.85 AZP 75.85 TAL 211.88 TAP 19.78 RCA 108.00 APO 152.50 V2 34.785
 RC 111.645 GL -56.01 GP 76.93 ZAL 113.25 ZAP 100.47 ETS 54.55 ZAE 97.08 ETE 142.93 ZAC 76.07 ETC 178.88 CLP-143.48

PLANETOCENTRIC CONIC

C3 69.522 VHL 8.338 OLA -44.60 RAL 40.76 RAD 6569.3 VEL 13.816 PTH 2.52 VHP 10.470 DPA 60.09 RAP 304.29 ECC 2.1442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.98 6 21 33 1898.65 16.65 40.74 293.09 131.99 6 53 12 1298.7 21.90 34.76
 126.02 13 55 26 5790.95 16.67 270.71 293.10 131.99 15 31 57 5190.9 21.91 264.73
 53.98 6 21 33 1898.65 16.65 40.74 293.09 131.99 6 53 12 1298.7 21.90 34.76
 126.02 13 55 26 5790.95 16.67 270.71 293.10 131.99 15 31 57 5190.9 21.91 264.73
 53.98 6 21 33 1898.65 16.65 40.74 293.09 131.99 6 53 12 1298.7 21.90 34.76
 126.02 13 55 26 5790.95 16.67 270.71 293.10 131.99 15 31 57 5190.9 21.91 264.73

DIFFERENTIAL CORRECTIONS

TDE-4.2003 TRA .5390 TC3 -.5981 BAU .5982
 RDE .9652 RRA -.6040 RC3 .2378 FAU .01764
 FDE-1.6146 FRA .4633 FC3 -.2196 BSP 10120
 BDE 4.3098 BRA .8095 BC3 .6436 FSP -342

MID-COURSE EXECUTION ACCURACY

SGT 3097.8 SGR 967.9 SG3 108.1
 RRT -.8715 RRF -.9429 RTF .9806
 SGB 3245.4 R23 .1410 R13 -.9870
 SG1 3213.0 SG2 457.7 THA 164.44

ORBIT DETERMINATION ACCURACY

ST 2890.7 SR 686.0 SS 1011.0
 CRT -.9793 CRS .9905 CST -.9978
 LSA 3134.9 MSA 145.4 SSA 2.5
 EL1 2967.9 EL2 135.3 ALF 166.89

LAUNCH DATE FEB 19 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 364.980

RL 147.90 LAL .00 LOL 150.18 VL 27.815 GAL -5.82 AZL 109.88 HCA 170.90 SMA 129.99 ECC .17053 INC19.8821 V1 30.125
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.625 GAP 3.10 AZP 70.35 TAL 210.67 TAP 21.58 RCA 107.82 APO 152.16 V2 34.787
 RC 114.042 GL -61.10 GP 81.19 ZAL 107.26 ZAP 98.74 ETS 77.67 ZAE 90.44 ETE 163.66 ZAC 72.02 ETC 199.20 CLP-172.60

PLANETOCENTRIC CONIC

C3 115.550 VHL 10.749 DLA -46.91 RAL 49.12 RAD 6570.2 VEL 15.391 PTH 2.75 VHP 13.671 DPA 59.35 RAP 291.64 ECC 2.9017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.90 6 43 30 2040.12 11.93 49.26 307.70 135.71 7 17 30 1440.1 17.59 43.82
 129.10 14 40 8 5873.95 11.95 273.77 307.71 135.71 16 18 2 5273.9 17.61 268.33
 50.90 6 43 30 2040.12 11.93 49.26 307.70 135.71 7 17 30 1440.1 17.59 43.82
 129.10 14 40 8 5873.95 11.95 273.77 307.71 135.71 16 18 2 5273.9 17.61 268.33
 50.90 6 43 30 2040.12 11.93 49.26 307.70 135.71 7 17 30 1440.1 17.59 43.82
 129.10 14 40 8 5873.95 11.95 273.77 307.71 135.71 16 18 2 5273.9 17.61 268.33

DIFFERENTIAL CORRECTIONS

TOE-5.6642 TRA 1.5271 TC3 -.2870 BAU .4445
 ROE -.9419 RRA -.3378 RC3 .0209 FAU .00918
 FDE-1.5804 FRA .5704 FC3 -.0688 BSP 10523
 BOE 5.7420 BRA 1.5640 BC3 .2877 FSP -264

MID-COURSE EXECUTION ACCURACY

SGT 3303.8 SGR 568.8 SG3 83.3
 RRT .6248 RRF .5453 RTF .9935
 SGB 3352.4 R23 -.1112 R13 .9920
 SG1 3323.2 SG2 441.5 THA 6.25

ORBIT DETERMINATION ACCURACY

ST 3040.2 SR 508.2 SS 1007.4
 CRT .9627 CRS -.9513 CST -.9992
 LSA 3239.7 MSA 142.9 SSA 2.0
 EL1 3079.4 EL2 135.8 ALF 9.16

LAUNCH DATE FEB 19 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 370.719

RL 147.90 LAL .00 LOL 150.18 VL 27.777 GAL -5.58 AZL 120.38 HCA 173.75 SMA 129.72 ECC .17003 INC30.3792 V1 30.125
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.599 GAP 3.29 AZP 59.77 TAL 209.29 TAP 23.04 RCA 107.66 APO 151.77 V2 34.798
 RC 116.435 GL -63.46 GP 79.73 ZAL 101.32 ZAP 96.39 ETS 125.68 ZAE 81.19 ETE 209.40 ZAC 65.61 ETC 245.29 CLP 128.58

PLANETOCENTRIC CONIC

C3 244.233 VHL 15.628 DLA -46.14 RAL 57.73 RAD 6571.4 VEL 19.119 PTH 3.09 VHP 19.922 DPA 55.29 RAP 276.77 ECC 5.0195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.91 7 21 28 2158.24 5.60 53.85 322.30 135.88 7 57 26 1558.2 11.31 48.60
 128.09 15 10 50 722.43 5.62 302.20 322.32 135.88 15 22 53 122.4 11.32 296.94
 51.91 7 21 28 2158.24 5.60 53.85 322.30 135.88 7 57 26 1558.2 11.31 48.60
 128.09 15 10 50 722.43 5.62 302.20 322.32 135.88 15 22 53 122.4 11.32 296.94
 51.91 7 21 28 2158.24 5.60 53.85 322.30 135.88 7 57 26 1558.2 11.31 48.60
 128.09 15 10 50 722.43 5.62 302.20 322.32 135.88 15 22 53 122.4 11.32 296.94

DIFFERENTIAL CORRECTIONS

TOE-3.5309 TRA 2.4526 TC3 -.0252 BAU .1501
 ROE-7.2507 RRA 2.0395 RC3 .0385 FAU-.00171
 FDE-1.6859 FRA .7921 FC3 .0061 BSP 10536
 BOE 8.0647 BRA 3.1898 BC3 .0460 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 1834.7 SGR 2871.5 SG3 64.5
 RRT .9172 RRF .9779 RTF .9795
 SGB 3407.6 R23 -.0942 R13 .9952
 SG1 3349.5 SG2 626.6 THA 58.39

ORBIT DETERMINATION ACCURACY

ST 1351.8 SR 2677.9 SS 1085.7
 CRT .9854 CRS -.9968 CST -.9958
 LSA 3183.2 MSA 210.9 SSA 1.0
 EL1 2992.7 EL2 205.8 ALF 63.42

LAUNCH DATE FEB 19 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 375.901

RL 147.90 LAL .00 LOL 150.18 VL 27.737 GAL -5.22 AZL 145.33 HCA 176.08 SMA 129.44 ECC .16864 INC55.3283 V1 30.125
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.573 GAP 3.33 AZP 34.73 TAL 207.41 TAP 23.50 RCA 107.61 APO 151.27 V2 34.794
 RC 118.823 GL -57.10 GP 65.57 ZAL 96.13 ZAP 93.77 ETS 163.44 ZAE 64.99 ETE 244.66 ZAC 52.81 ETC 284.21 CLP 99.14

PLANETOCENTRIC CONIC

C3 732.050 VHL 27.056 DLA -37.42 RAL 63.24 RAD 6572.7 VEL 29.212 PTH 3.44 VHP 34.292 DPA 42.91 RAP 261.50 ECC13.0477
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.44 8 37 40 2112.96 .41 45.32 332.68 127.42 9 12 53 1513.0 5.26 39.36
 115.56 14 38 40 976.18 .43 319.59 332.70 127.42 14 54 56 376.2 5.28 313.63
 64.44 8 37 40 2112.96 .41 45.32 332.68 127.42 9 12 53 1513.0 5.26 39.36
 115.56 14 38 40 976.18 .43 319.59 332.70 127.42 14 54 56 376.2 5.28 313.63
 64.44 8 37 40 2112.96 .41 45.32 332.68 127.42 9 12 53 1513.0 5.26 39.36
 115.56 14 38 40 976.18 .43 319.59 332.70 127.42 14 54 56 376.2 5.28 313.63

DIFFERENTIAL CORRECTIONS

TOE 2.7992 TRA 1.2571 TC3 -.0405 BAU 1.8477
 RO-11.3924 RRA 6.7968 RC3 .1844 FAU-.02907
 FDE-2.1347 FRA 1.4331 FC3 .0344 BSP 10344
 BOE11.7312 BRA 6.9121 BC3 .1888 FSP -175

MID-COURSE EXECUTION ACCURACY

SGT 715.3 SGR 3178.1 SG3 53.6
 RRT -.4580 RRF .9984 RTF -.4070
 SGB 3257.6 R23 -.0778 R13 .9970
 SG1 3195.6 SG2 632.4 THA 96.13

ORBIT DETERMINATION ACCURACY

ST 601.3 SR -2473.2 SS 1381.8
 CRT -.9250 CRS -.9996 CST .9146
 LSA 2887.0 MSA 229.9 SSA .3
 EL1 2535.4 EL2 222.8 ALF 102.77

LAUNCH DATE FEB 19 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 386.276

RL 147.90 LAL .00 LOL 150.18 VL 27.696 GAL -5.91 AZL 15.96 HCA 183.41 SMA 129.16 ECC .17728 INC74.0384 V1 30.125
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.547 GAP 4.80 AZP 164.01 TAL 209.57 TAP 32.98 RCA 106.26 APO 152.05 V2 34.798
 RC 121.206 GL 49.31 GP -56.00 ZAL 95.29 ZAP 94.28 ETS 180.44 ZAE 58.94 ETE 101.78 ZAC 71.59 ETC 67.11 CLP 97.67

PLANETOCENTRIC CONIC

C31220.293 VHL 34.933 DLA 64.18 RAL 22.98 RAD 6573.1 VEL 36.628 PTH 3.53 VHP 43.185 DPA -73.36 RAP 209.33 ECC21.0829
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.65 15 56 54 5068.05 .88 243.60 293.42 25.82 17 21 22 4468.1 -6.32 240.52
 150.35 1 58 13 3358.39 .89 100.96 293.40 25.82 2 54 12 2758.4 -6.31 97.89
 29.65 15 56 54 5068.05 .88 243.60 293.42 25.82 17 21 22 4468.1 -6.32 240.52
 150.35 1 58 13 3358.39 .89 100.96 293.40 25.82 2 54 12 2758.4 -6.31 97.89
 29.65 15 56 54 5068.05 .88 243.60 293.42 25.82 17 21 22 4468.1 -6.32 240.52
 150.35 1 58 13 3358.39 .89 100.96 293.40 25.82 2 54 12 2758.4 -6.31 97.89

DIFFERENTIAL CORRECTIONS

TOE-4.1800 TRA 1.7930 TC3 -.0955 BAU 3.5485
 RO-15.4957 RRA 1.0876 RC3 -.1954 FAU-.05528
 FDE 3.2367 FRA -.2133 FC3 .0392 BSP 9521
 BOE16.0496 BRA 2.0978 BC3 .2175 FSP -168

MID-COURSE EXECUTION ACCURACY

SGT 1171.0 SGR 2914.1 SG3 52.1
 RRT .8586 RRF -.9998 RTF -.8514
 SGB 3140.6 R23 -.0793 R13 -.9968
 SG1 3089.1 SG2 566.3 THA 70.27

ORBIT DETERMINATION ACCURACY

ST 715.2 SR 2544.9 SS 1983.1
 CRT .9715 CRS 1.0000 CST .9708
 LSA 3300.4 MSA 166.6 SSA .8
 EL1 2638.4 EL2 163.5 ALF 74.67

LAUNCH DATE FEB 19 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 390.954

RL 147.90 LAL .00 LOL 150.18 VL 27.655 GAL -5.43 AZL 51.00 MCA 185.28 SMA 128.87 ECC .17487 INC38.9990 V1 30.125
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.521 GAP 4.70 AZP 128.88 TAL 207.33 TAP 32.61 RCA 106.33 APO 151.40 V2 34.803
 RC 123.581 GL 61.97 GP -74.84 ZAL 98.75 ZAP 97.60 ETS 196.47 ZAE 79.96 ETE 116.59 ZAC 89.25 ETC 85.96 CLP 120.36

PLANETOCENTRIC CONIC

C3 385.235 VHL 19.627 DLA 68.94 RAL 349.31 RAD 6572.1 VEL 22.506 PTH 3.26 VHP 23.942 DPA -80.67 RAP 102.25 ECC 7.3400
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.09 13 30 4 5011.32 -3.86 245.06 257.83 21.11 14 53 35 4411.3 -11.31 242.54
 155.91 23 52 28 3264.95 -3.85 96.31 257.81 21.11 24 46 53 2665.0 -11.30 93.79
 24.09 13 30 4 5011.32 -3.86 245.06 257.83 21.11 14 53 35 4411.3 -11.31 242.54
 155.91 23 52 28 3264.95 -3.85 96.31 257.81 21.11 24 46 53 2665.0 -11.30 93.79
 24.09 13 30 4 5011.32 -3.86 245.06 257.83 21.11 14 53 35 4411.3 -11.31 242.54
 155.91 23 52 28 3264.95 -3.85 96.31 257.81 21.11 24 46 53 2665.0 -11.30 93.79

DIFFERENTIAL CORRECTIONS

TOE 1.6261 TRA .6374 TC3 -.0321 BAU .7075
 RDE -7.8452 RRA 3.3700 RC3 -.1336 FAU .00777
 FDE 1.7004 FRA -.6263 FC3 .0175 BSP 11651
 BDE 8.0119 BRA 3.4298 BC3 .1374 FSP -204

MID-COURSE EXECUTION ACCURACY

SGT 713.7 SGR 3607.6 SG3 61.7
 RRT .1540 RRF -.9959 RTP -.0716
 SGB 3677.5 R23 -.0890 R13 -.9954
 SG1 3609.3 SG2 704.8 THA 88.19

ORBIT DETERMINATION ACCURACY

ST 499.5 SR 2433.0 SS 1074.2
 CRT -.7895 CRS .9989 CST -.8169
 LSA 2689.0 MSA 303.6 SSA 1.5
 EL1 2465.3 EL2 302.5 ALF 99.35

LAUNCH DATE FEB 19 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 396.506

RL 147.90 LAL .00 LOL 150.18 VL 27.612 GAL -5.13 AZL 65.18 MCA 188.01 SMA 128.57 ECC .17438 INC24.8229 V1 30.125
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.495 GAP 4.83 AZP 114.61 TAL 205.70 TAP 33.71 RCA 106.15 APO 150.99 V2 34.808
 RC 125.948 GL 62.97 GP -77.65 ZAL 102.64 ZAP 102.07 ETS 250.05 ZAE 91.25 ETE 169.62 ZAC 97.84 ETC 140.33 CLP 167.92

PLANETOCENTRIC CONIC

C3 167.989 VHL 12.961 DLA 65.70 RAL 340.52 RAD 6570.8 VEL 17.009 PTH 2.92 VHP 15.606 DPA -71.51 RAP 67.88 ECC 3.7647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.87 13 3 24 4888.14 -10.66 240.08 245.66 24.75 14 24 52 4288.1 -17.90 236.99
 152.13 23 9 1 3165.62 -10.65 95.44 245.64 24.75 24 1 47 2565.6 -17.89 92.35
 27.87 13 3 24 4888.14 -10.66 240.08 245.66 24.75 14 24 52 4288.1 -17.90 236.99
 152.13 23 9 1 3165.62 -10.65 95.44 245.64 24.75 24 1 47 2565.6 -17.89 92.35
 27.87 13 3 24 4888.14 -10.66 240.08 245.66 24.75 14 24 52 4288.1 -17.90 236.99
 152.13 23 9 1 3165.62 -10.65 95.44 245.64 24.75 24 1 47 2565.6 -17.89 92.35

DIFFERENTIAL CORRECTIONS

TOE 3.9275 TRA -2.2869 TC3 -.0924 BAU .2162
 RDE -1.6949 RRA 2.1364 RC3 .0271 FAU .00903
 FDE 1.1879 FRA -.6870 FC3 -.0465 BSP 12073
 BDE 4.2777 BRA 3.1295 BC3 .0963 FSP -256

MID-COURSE EXECUTION ACCURACY

SGT 3018.0 SGR 2415.5 SG3 79.0
 RRT -.9543 RRF -.9496 RTF .9986
 SGB 3865.6 R23 -.1283 R13 -.9904
 SG1 3823.4 SG2 569.6 THA 141.62

ORBIT DETERMINATION ACCURACY

ST 1886.2 SR 1017.6 SS 768.4
 CRT -.9422 CRS .9413 CST -1.0000
 LSA 2255.8 MSA 308.2 SSA 1.8
 EL1 2121.6 EL2 303.2 ALF 152.45

LAUNCH DATE FEB 19 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 402.289

RL 147.90 LAL .00 LOL 150.18 VL 27.568 GAL -4.86 AZL 71.98 MCA 190.97 SMA 128.27 ECC .17446 INC18.0243 V1 30.125
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.468 GAP 5.03 AZP 107.72 TAL 204.22 TAP 35.19 RCA 105.89 APO 150.65 V2 34.815
 RC 128.306 GL 60.39 GP -72.58 ZAL 106.07 ZAP 106.93 ETS 285.81 ZAE 98.83 ETE 204.36 ZAC 103.14 ETC 176.16 CLP -166.65

PLANETOCENTRIC CONIC

C3 95.580 VHL 9.776 DLA 62.14 RAL 341.74 RAD 6569.9 VEL 14.728 PTH 2.66 VHP 11.680 DPA -63.78 RAP 56.75 ECC 2.5730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.06 13 18 7 4762.51 -16.88 233.78 242.52 29.23 14 37 29 4162.5 -23.82 229.94
 147.94 23 4 2 3071.91 -16.87 93.94 242.50 29.23 23 55 14 2471.9 -23.81 90.10
 32.06 13 18 7 4762.51 -16.88 233.78 242.52 29.23 14 37 29 4162.5 -23.82 229.94
 147.94 23 4 2 3071.91 -16.87 93.94 242.50 29.23 23 55 14 2471.9 -23.81 90.10
 32.06 13 18 7 4762.51 -16.88 233.78 242.52 29.23 14 37 29 4162.5 -23.82 229.94
 147.94 23 4 2 3071.91 -16.87 93.94 242.50 29.23 23 55 14 2471.9 -23.81 90.10

DIFFERENTIAL CORRECTIONS

TOE 3.0886 TRA -2.7335 TC3 -.4110 BAU .5260
 RDE .5183 RRA .2729 RC3 -.0225 FAU .01956
 FDE 1.1378 FRA -.7210 FC3 -.1772 BSP 12535
 BDE 3.1318 BRA 2.7471 BC3 .4117 FSP -333

MID-COURSE EXECUTION ACCURACY

SGT 3959.3 SGR 459.7 SG3 101.6
 RRT -.3232 RRF -.1697 RTF .9851
 SGB 3985.9 R23 -.1612 R13 -.9844
 SG1 3962.1 SG2 434.7 THA 177.82

ORBIT DETERMINATION ACCURACY

ST 2082.0 SR 320.6 SS 726.6
 CRT .6654 CRS -.7568 CST -.9915
 LSA 2214.1 MSA 251.5 SSA 2.3
 EL1 2093.1 EL2 238.1 ALF 5.93

LAUNCH DATE FEB 19 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 408.149

RL 147.90 LAL .00 LOL 150.18 VL 27.524 GAL -4.61 AZL 75.88 MCA 194.03 SMA 127.97 ECC .17481 INC14.1217 V1 30.125
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.442 GAP 5.25 AZP 103.72 TAL 202.77 TAP 36.80 RCA 105.60 APO 150.34 V2 34.821
 RC 130.653 GL 56.91 GP -66.35 ZAL 108.85 ZAP 111.86 ETS 296.84 ZAE 104.68 ETE 213.80 ZAC 107.11 ETC 186.77 CLP -158.15

PLANETOCENTRIC CONIC

C3 63.839 VHL 7.990 DLA 58.94 RAL 345.36 RAD 6569.2 VEL 13.609 PTH 2.49 VHP 9.545 DPA -57.00 RAP 50.59 ECC 2.0506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.88 13 42 7 4652.38 -21.64 227.26 241.55 33.72 14 59 40 4052.4 -28.21 222.64
 144.12 23 8 55 2996.48 -21.62 92.06 241.53 33.71 23 58 51 2396.5 -28.20 87.45
 35.88 13 42 7 4652.38 -21.64 227.26 241.55 33.72 14 59 40 4052.4 -28.21 222.64
 144.12 23 8 55 2996.48 -21.62 92.06 241.53 33.71 23 58 51 2396.5 -28.20 87.45
 35.88 13 42 7 4652.38 -21.64 227.26 241.55 33.72 14 59 40 4052.4 -28.21 222.64
 144.12 23 8 55 2996.48 -21.62 92.06 241.53 33.71 23 58 51 2396.5 -28.20 87.45

DIFFERENTIAL CORRECTIONS

TOE 2.4977 TRA -2.4362 TC3 -.7769 BAU .6744
 RDE .8195 RRA -.1610 RC3 -.1444 FAU .02834
 FDE 1.1842 FRA -.7371 FC3 -.3843 BSP 12834
 BDE 2.6287 BRA 2.4415 BC3 .7902 FSP -418

MID-COURSE EXECUTION ACCURACY

SGT 4026.5 SGR 669.8 SG3 126.6
 RRT .7773 RRF .8862 RTF .9748
 SGB 4081.8 R23 .1912 R13 .9774
 SG1 4060.4 SG2 417.9 THA 7.45

ORBIT DETERMINATION ACCURACY

ST 2059.4 SR 591.5 SS 744.9
 CRT .9202 CRS -.9728 CST -.9858
 LSA 2255.2 MSA 244.5 SSA 3.0
 EL1 2131.0 EL2 223.8 ALF 14.97

LAUNCH DATE FEB 19 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 414.037

RL 147.90 LAL .00 LOL 150.18 VL 27.480 GAL -4.36 AZL 78.40 MCA 197.12 SMA 127.67 ECC .17534 INC11.5987 V1 30.125
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.417 GAP 5.48 AZP 101.10 TAL 201.33 TAP 38.45 RCA 105.28 APO 150.05 V2 34.829
 RC 132.989 GL 53.34 GP -60.38 ZAL 110.97 ZAP 116.65 ETS 301.27 ZAE 109.43 ETE 216.15 ZAC 110.42 ETC 190.39 CLP-155.17

PLANETOCENTRIC CONIC

C3 47.159 VHL 6.867 DLA 56.11 RAL 349.46 RAD 6568.8 VEL 12.982 PTH 2.37 VHP 8.271 DPA -50.83 RAP 46.72 ECC 1.7761
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.30 14 7 32 4559.85 -24.98 220.96 241.24 37.96 15 23 32 3959.9 -31.17 215.64
 140.70 23 16 12 2939.82 -24.96 90.17 241.22 37.95 24 5 11 2339.8 -31.16 84.85
 39.30 14 7 32 4559.85 -24.98 220.96 241.24 37.96 15 23 32 3959.9 -31.17 215.64
 140.70 23 16 12 2939.82 -24.96 90.17 241.22 37.95 24 5 11 2339.8 -31.16 84.85
 39.30 14 7 32 4559.85 -24.98 220.96 241.24 37.96 15 23 32 3959.9 -31.17 215.64
 140.70 23 16 12 2939.82 -24.96 90.17 241.22 37.95 24 5 11 2339.8 -31.16 84.85

DIFFERENTIAL CORRECTIONS

TDE 2.1875 TRA-2.1961 TC3-1.1834 BAU .7636
 RDE .7966 RRA -.2425 RC3 -.2577 FAU .03621
 FDE 1.2289 FRA -.7337 FC3 -.6648 BSP 13308
 BDE 2.3281 BRA 2.2095 BC3 1.2112 FSP -513

MID-COURSE EXECUTION ACCURACY

SGT 4095.5 SGR 835.9 SG3 151.9
 RRT .8707 RRF .9548 RTF .9672
 SGB 4179.9 R23 .2121 R13 .9711
 SG1 4160.3 SG2 404.7 THA 10.17

ORBIT DETERMINATION ACCURACY

ST 2075.0 SR 673.6 SS 769.8
 CRT .9451 CRS -.9890 CST -.9830
 LSA 2301.1 MSA 238.2 SSA 3.8
 EL1 2171.4 EL2 210.4 ALF 17.22

LAUNCH DATE FEB 19 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 419.943

RL 147.90 LAL .00 LOL 150.18 VL 27.434 GAL -4.10 AZL 80.17 MCA 200.24 SMA 127.37 ECC .17599 INC 9.8307 V1 30.125
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.391 GAP 5.71 AZP 99.23 TAL 199.87 TAP 40.11 RCA 104.95 APO 149.78 V2 34.837
 RC 135.313 GL 49.96 GP -54.91 ZAL 112.44 ZAP 121.19 ETS 303.62 ZAE 113.33 ETE 216.05 ZAC 113.32 ETC 191.66 CLP-154.28

PLANETOCENTRIC CONIC

C3 37.244 VHL 6.103 DLA 53.66 RAL 353.55 RAD 6568.5 VEL 12.594 PTH 2.28 VHP 7.469 DPA -45.19 RAP 44.23 ECC 1.6129
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.30 14 32 21 4482.31 -27.24 215.13 241.31 41.79 15 47 4 3882.3 -33.06 209.19
 137.70 23 23 59 2898.39 -27.23 88.46 241.29 41.78 24 12 17 2298.4 -33.05 82.53
 42.30 14 32 21 4482.31 -27.24 215.13 241.31 41.79 15 47 4 3882.3 -33.06 209.19
 137.70 23 23 59 2898.39 -27.23 88.46 241.29 41.78 24 12 17 2298.4 -33.05 82.53
 42.30 14 32 21 4482.31 -27.24 215.13 241.31 41.79 15 47 4 3882.3 -33.06 209.19
 137.70 23 23 59 2898.39 -27.23 88.46 241.29 41.78 24 12 17 2298.4 -33.05 82.53

DIFFERENTIAL CORRECTIONS

TDE 2.0707 TRA-1.9362 TC3-1.5434 BAU .7839
 RDE .7487 RRA -.1994 RC3 -.3105 FAU .04017
 FDE 1.3079 FRA -.6440 FC3 -.9336 BSP 11945
 BDE 2.2019 BRA 1.9465 BC3 1.5743 FSP -483

MID-COURSE EXECUTION ACCURACY

SGT 4091.5 SGR 858.8 SG3 169.5
 RRT .8679 RRF .9601 RTF .9550
 SGB 4180.7 R23 .2465 R13 .9597
 SG1 4159.6 SG2 419.6 THA 10.43

ORBIT DETERMINATION ACCURACY

ST 2151.7 SR 709.4 SS 817.0
 CRT .9529 CRS -.9939 CST -.9805
 LSA 2396.2 MSA 242.5 SSA 4.6
 EL1 2256.3 EL2 205.2 ALF 17.59

LAUNCH DATE FEB 19 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 425.837

RL 147.90 LAL .00 LOL 150.18 VL 27.389 GAL -3.84 AZL 81.48 MCA 203.38 SMA 127.06 ECC .17679 INC 8.5181 V1 30.125
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.366 GAP 5.94 AZP 97.83 TAL 198.40 TAP 41.78 RCA 104.60 APO 149.53 V2 34.846
 RC 137.625 GL 46.81 GP -49.99 ZAL 113.36 ZAP 125.41 ETS 305.14 ZAE 116.52 ETE 214.88 ZAC 115.95 ETC 191.93 CLP-154.32

PLANETOCENTRIC CONIC

C3 30.819 VHL 5.552 DLA 51.54 RAL 357.51 RAD 6568.2 VEL 12.337 PTH 2.22 VHP 6.951 DPA -40.04 RAP 42.67 ECC 1.5072
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.96 14 56 7 4416.76 -28.73 209.84 241.71 45.18 16 9 44 3816.8 -34.20 203.41
 135.04 23 31 50 2868.43 -28.72 87.01 241.69 45.17 24 19 39 2268.4 -34.19 80.58
 44.96 14 56 7 4416.76 -28.73 209.84 241.71 45.18 16 9 44 3816.8 -34.20 203.41
 135.04 23 31 50 2868.43 -28.72 87.01 241.69 45.17 24 19 39 2268.4 -34.19 80.58
 44.96 14 56 7 4416.76 -28.73 209.84 241.71 45.18 16 9 44 3816.8 -34.20 203.41
 135.04 23 31 50 2868.43 -28.72 87.01 241.69 45.17 24 19 39 2268.4 -34.19 80.58

DIFFERENTIAL CORRECTIONS

TDE 1.8964 TRA-1.8178 TC3-2.0370 BAU .8550
 RDE .6490 RRA -.1901 RC3 -.3957 FAU .04704
 FDE 1.2719 FRA -.6240 FC3-1.3213 BSP 13501
 BDE 2.0043 BRA 1.8277 BC3 2.0750 FSP -631

MID-COURSE EXECUTION ACCURACY

SGT 4247.7 SGR 860.9 SG3 192.2
 RRT .8903 RRF .9663 RTF .9536
 SGB 4334.1 R23 .2420 R13 .9577
 SG1 4316.9 SG2 385.7 THA 10.31

ORBIT DETERMINATION ACCURACY

ST 2157.3 SR 676.6 SS 810.5
 CRT .9574 CRS -.9957 CST -.9799
 LSA 2390.8 MSA 229.6 SSA 5.7
 EL1 2253.2 EL2 187.0 ALF 16.83

LAUNCH DATE FEB 19 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 431.733

RL 147.90 LAL .00 LOL 150.18 VL 27.343 GAL -3.56 AZL 82.50 MCA 206.52 SMA 126.76 ECC .17771 INC 7.5006 V1 30.125
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.341 GAP 6.18 AZP 96.72 TAL 196.91 TAP 43.44 RCA 104.23 APO 149.28 V2 34.855
 RC 139.923 GL 43.93 GP -45.61 ZAL 113.76 ZAP 129.28 ETS 306.28 ZAE 119.11 ETE 213.24 ZAC 118.40 ETC 191.75 CLP-154.83

PLANETOCENTRIC CONIC

C3 26.370 VHL 5.135 DLA 49.71 RAL 1.37 RAD 6568.1 VEL 12.155 PTH 2.18 VHP 6.613 DPA -35.36 RAP 41.79 ECC 1.4340
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.27 15 18 49 4360.75 -29.71 205.13 242.45 48.12 16 31 30 3760.7 -34.86 198.29
 132.73 23 39 55 2846.60 -29.70 85.83 242.44 48.11 24 27 21 2246.6 -34.85 78.99
 47.27 15 18 49 4360.75 -29.71 205.13 242.45 48.12 16 31 30 3760.7 -34.86 198.29
 132.73 23 39 55 2846.60 -29.70 85.83 242.44 48.11 24 27 21 2246.6 -34.85 78.99
 47.27 15 18 49 4360.75 -29.71 205.13 242.45 48.12 16 31 30 3760.7 -34.86 198.29
 132.73 23 39 55 2846.60 -29.70 85.83 242.44 48.11 24 27 21 2246.6 -34.85 78.99

DIFFERENTIAL CORRECTIONS

TDE 1.8045 TRA-1.6689 TC3-2.4910 BAU .8914
 RDE .5789 RRA -.1542 RC3 -.4343 FAU .05074
 FDE 1.2511 FRA -.5459 FC3-1.6660 BSP 13847
 BDE 1.8951 BRA 1.6760 BC3 2.5285 FSP -686

MID-COURSE EXECUTION ACCURACY

SGT 4346.5 SGR 828.8 SG3 207.4
 RRT .8905 RRF .9626 RTF .9488
 SGB 4424.8 R23 .2451 R13 .9524
 SG1 4409.1 SG2 371.8 THA 9.71

ORBIT DETERMINATION ACCURACY

ST 2192.3 SR 651.0 SS 814.3
 CRT .9603 CRS -.9969 CST -.9790
 LSA 2417.2 MSA 223.7 SSA 6.8
 EL1 2280.2 EL2 174.5 ALF 16.01

LAUNCH DATE FEB 19 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 437.623

RL 147.90 LAL .00 LOL 150.18 VL 27.297 GAL -3.28 AZL 83.32 HCA 126.45 ECC .17875 INC 6.6845 V1 30.125
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.316 GAP 6.41 AZP 95.81 TAL 195.41 TAP 45.08 RCA 103.85 APO 149.06 V2 34.865
 RC 142.207 GL 41.27 GP -41.74 ZAL 113.69 ZAP 132.80 ETS 307.20 ZAE 121.21 ETE 211.40 ZAC 120.72 ETC 191.36 CLP-155.58

PLANETOCENTRIC CONIC

C3 23.134 VHL 4.810 DLA 48.15 RAL 5.16 RAD 6567.9 VEL 12.021 PTH 2.15 VHP 6.396 DPA -31.12 RAP 41.42 ECC 1.3807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.28 15 40 38 4312.34 -30.35 200.95 243.54 50.64 16 52 31 3712.3 -35.21 193.80
 130.72 23 48 20 2830.62 -30.34 84.87 243.52 50.63 24 35 30 2230.6 -35.20 77.72
 49.28 15 40 38 4312.34 -30.35 200.95 243.54 50.64 16 52 31 3712.3 -35.21 193.80
 130.72 23 48 20 2830.62 -30.34 84.87 243.52 50.63 24 35 30 2230.6 -35.20 77.72
 49.28 15 40 38 4312.34 -30.35 200.95 243.54 50.64 16 52 31 3712.3 -35.21 193.80
 130.72 23 48 20 2830.62 -30.34 84.87 243.52 50.63 24 35 30 2230.6 -35.20 77.72

DIFFERENTIAL CORRECTIONS

TOE 1.7377 TRA-1.5256 TC3-2.9462 BAU .9219
 RDE .5213 RRA -.1202 RC3 -.4536 FAU .05309
 FDE 1.2157 FRA -.4529 FC3-1.9868 BSP 14137
 BDE 1.8142 BRA 1.5304 BC3 2.9809 FSP -724

MID-COURSE EXECUTION ACCURACY

SGT 4442.6 SGR 788.7 SG3 218.6
 RRT .8866 RRF .9553 RTF .9444
 SGB 4512.1 R23 .2432 R13 .9475
 SG1 4497.7 SG2 360.3 TMA 9.00

ORBIT DETERMINATION ACCURACY

ST 2227.1 SR 624.5 SS 812.0
 CRT .9629 CRS -.9979 CST -.9781
 LSA 2441.6 MSA 218.0 SSA 8.0
 EL1 2507.2 EL2 162.6 ALF 15.19

LAUNCH DATE FEB 19 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 443.506

RL 147.90 LAL .00 LOL 150.18 VL 27.251 GAL -2.99 AZL 83.99 HCA 126.15 ECC .17992 INC 6.0120 V1 30.125
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.292 GAP 6.65 AZP 95.06 TAL 193.88 TAP 46.71 RCA 103.45 APO 148.85 V2 34.875
 RC 144.478 GL 38.80 GP -38.32 ZAL 113.20 ZAP 135.99 ETS 307.98 ZAE 122.90 ETE 209.53 ZAC 122.94 ETC 190.87 CLP-156.46

PLANETOCENTRIC CONIC

C3 20.690 VHL 4.549 DLA 46.81 RAL 8.92 RAD 6567.8 VEL 11.919 PTH 2.12 VHP 6.263 DPA -27.28 RAP 41.45 ECC 1.3405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.03 16 1 47 4270.12 -30.76 197.25 244.96 52.80 17 12 57 3670.1 -35.37 189.85
 128.97 0 1 10 2818.88 -30.75 84.11 244.95 52.79 0 48 9 2218.9 -35.36 76.72
 51.03 16 1 47 4270.12 -30.76 197.25 244.96 52.80 17 12 57 3670.1 -35.37 189.85
 128.97 0 1 10 2818.88 -30.75 84.11 244.95 52.79 0 48 9 2218.9 -35.36 76.72
 51.03 16 1 47 4270.12 -30.76 197.25 244.96 52.80 17 12 57 3670.1 -35.37 189.85
 128.97 0 1 10 2818.88 -30.75 84.11 244.95 52.79 0 48 9 2218.9 -35.36 76.72

DIFFERENTIAL CORRECTIONS

TOE 1.6860 TRA-1.3861 TC3-3.4032 BAU .9499
 RDE .4743 RRA -.0910 RC3 -.4599 FAU .05439
 FDE 1.1681 FRA -.3531 FC3-2.2758 BSP 14439
 BDE 1.7514 BRA 1.3891 BC3 3.4341 FSP -750

MID-COURSE EXECUTION ACCURACY

SGT 4538.9 SGR 748.3 SG3 226.5
 RRT .8806 RRF .9450 RTF .9405
 SGB 4600.2 R23 .2359 R13 .9432
 SG1 4586.8 SG2 350.9 TMA 8.31

ORBIT DETERMINATION ACCURACY

ST 2259.3 SR 599.7 SS 803.8
 CRT .9657 CRS -.9986 CST -.9772
 LSA 2462.7 MSA 212.0 SSA 9.2
 EL1 2332.6 EL2 150.8 ALF 14.44

LAUNCH DATE FEB 19 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 449.379

RL 147.90 LAL .00 LOL 150.18 VL 27.205 GAL -2.69 AZL 84.55 HCA 125.85 ECC .18122 INC 5.4452 V1 30.125
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.268 GAP 6.89 AZP 94.41 TAL 192.34 TAP 48.33 RCA 103.04 APO 148.66 V2 34.885
 RC 146.734 GL 36.50 GP -35.31 ZAL 112.34 ZAP 138.89 ETS 308.63 ZAE 124.25 ETE 207.70 ZAC 125.12 ETC 190.35 CLP-157.41

PLANETOCENTRIC CONIC

C3 18.792 VHL 4.335 DLA 45.65 RAL 12.70 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 6.191 DPA -23.80 RAP 41.80 ECC 1.3093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.57 16 22 27 4233.04 -31.02 193.98 246.71 54.66 17 33 0 3633.0 -35.40 186.39
 127.43 0 10 40 2810.28 -31.00 83.52 246.70 54.65 0 57 30 2210.3 -35.39 75.93
 52.57 16 22 27 4233.04 -31.02 193.98 246.71 54.66 17 33 0 3633.0 -35.40 186.39
 127.43 0 10 40 2810.28 -31.00 83.52 246.70 54.65 0 57 30 2210.3 -35.39 75.93
 52.57 16 22 27 4233.04 -31.02 193.98 246.71 54.66 17 33 0 3633.0 -35.40 186.39
 127.43 0 10 40 2810.28 -31.00 83.52 246.70 54.65 0 57 30 2210.3 -35.39 75.93

DIFFERENTIAL CORRECTIONS

TOE 1.6459 TRA-1.2465 TC3-3.8572 BAU .9758
 RDE .4366 RRA -.0663 RC3 -.4566 FAU .05480
 FDE 1.1132 FRA -.2503 FC3-2.5247 BSP 14738
 BDE 1.7028 BRA 1.2483 BC3 3.8841 FSP -767

MID-COURSE EXECUTION ACCURACY

SGT 4633.6 SGR 710.9 SG3 231.5
 RRT .8726 RRF .9317 RTF .9372
 SGB 4687.8 R23 .2239 R13 .9395
 SG1 4675.2 SG2 344.1 TMA 7.67

ORBIT DETERMINATION ACCURACY

ST 2289.6 SR 578.4 SS 791.4
 CRT .9689 CRS -.9992 CST -.9764
 LSA 2482.1 MSA 205.6 SSA 10.6
 EL1 2357.4 EL2 139.1 ALF 13.80

LAUNCH DATE FEB 19 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 455.243

RL 147.90 LAL .00 LOL 150.18 VL 27.159 GAL -2.38 AZL 85.04 HCA 125.55 ECC .18266 INC 4.9583 V1 30.125
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.245 GAP 7.13 AZP 93.85 TAL 190.78 TAP 49.94 RCA 102.62 APO 148.48 V2 34.897
 RC 148.977 GL 34.34 GP -32.66 ZAL 111.12 ZAP 141.51 ETS 309.17 ZAE 125.34 ETE 205.97 ZAC 127.26 ETC 189.84 CLP-158.40

PLANETOCENTRIC CONIC

C3 17.289 VHL 4.158 DLA 44.64 RAL 16.54 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 6.164 DPA -20.63 RAP 42.40 ECC 1.2845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.93 16 42 52 4200.30 -31.16 191.07 248.79 56.26 17 52 52 3600.3 -35.35 183.33
 126.07 0 20 50 2804.12 -31.15 83.07 248.78 56.25 1 7 34 2204.1 -35.34 75.33
 53.93 16 42 52 4200.30 -31.16 191.07 248.79 56.26 17 52 52 3600.3 -35.35 183.33
 126.07 0 20 50 2804.12 -31.15 83.07 248.78 56.25 1 7 34 2204.1 -35.34 75.33
 53.93 16 42 52 4200.30 -31.16 191.07 248.79 56.26 17 52 52 3600.3 -35.35 183.33
 126.07 0 20 50 2804.12 -31.15 83.07 248.78 56.25 1 7 34 2204.1 -35.34 75.33

DIFFERENTIAL CORRECTIONS

TOE 1.6162 TRA-1.1023 TC3-4.2978 BAU .9987
 RDE .4071 RRA -.0448 RC3 -.4451 FAU .05439
 FDE 1.0562 FRA -.1453 FC3-2.7234 BSP 14970
 BDE 1.6667 BRA 1.1032 BC3 4.3208 FSP -770

MID-COURSE EXECUTION ACCURACY

SGT 4721.3 SGR 677.6 SG3 233.9
 RRT .8619 RRF .9154 RTF .9340
 SGB 4769.6 R23 .2093 R13 .9359
 SG1 4757.4 SG2 341.0 TMA 7.09

ORBIT DETERMINATION ACCURACY

ST 2319.8 SR 561.7 SS 777.2
 CRT .9725 CRS -.9996 CST -.9755
 LSA 2502.3 MSA 199.3 SSA 12.0
 EL1 2383.5 EL2 127.3 ALF 13.29

LAUNCH DATE FEB 19 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 461.096

RL 147.90 LAL .00 LOL 150.18 VL 27.112 GAL -2.06 AZL 85.47 MCA 222.33 SMA 125.25 ECC .18425 INC 4.5331 V1 30.125
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.222 GAP 7.37 AZP 93.35 TAL 189.20 TAP 51.53 RCA 102.18 APO 148.33 V2 34.908
 RC 151.204 GL 32.27 GP -30.32 ZAL 109.59 ZAP 143.90 ETS 309.60 ZAE 126.22 ETE 204.36 ZAC 129.38 ETC 189.35 CLP-159.39

PLANETOCENTRIC CONIC

C3 16.083 VHL 4.010 DLA 43.74 RAL 20.45 RAD 6567.6 VEL 11.725 PTH 2.07 VHP 6.171 DPA -17.75 RAP 43.23 ECC 1.2647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.15 17 3 12 4171.18 -31.22 188.47 251.17 57.65 18 12 43 3571.2 -35.24 180.61
 124.85 0 31 41 2800.08 -31.21 82.75 251.16 57.64 1 18 21 2200.1 -35.23 74.89
 55.15 17 3 12 4171.18 -31.22 188.47 251.17 57.65 18 12 43 3571.2 -35.24 180.61
 124.85 0 31 41 2800.08 -31.21 82.75 251.16 57.64 1 18 21 2200.1 -35.23 74.89
 55.15 17 3 12 4171.18 -31.22 188.47 251.17 57.65 18 12 43 3571.2 -35.24 180.61
 124.85 0 31 41 2800.08 -31.21 82.75 251.16 57.64 1 18 21 2200.1 -35.23 74.89

DIFFERENTIAL CORRECTIONS

TDE 1.5884 TRA -.9573 TC3-4.7337 BAU 1.0220
 RDE .3830 RRA -.0273 RC3 -.4315 FAU .05358
 FDE .9935 FRA -.0455 FC3-2.8841 BSP 15279
 BDE 1.6339 BRA .9577 BC3 4.7533 FSP -774

MID-COURSE EXECUTION ACCURACY

SGT 4811.4 SGR 649.6 SG3 234.6
 RRT .8503 RRF .8968 RTF .9318
 SGB 4855.1 R23 .1909 R13 .9334
 SG1 4843.2 SG2 339.6 THA 6.58

ORBIT DETERMINATION ACCURACY

ST 2342.1 SR 547.5 SS 757.9
 CRT .9764 CRS -.9995 CST -.9746
 LSA 2514.4 MSA 192.3 SSA 13.5
 EL1 2402.5 EL2 115.2 ALF 12.89

LAUNCH DATE FEB 19 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 466.937

RL 147.90 LAL .00 LOL 150.18 VL 27.066 GAL -1.73 AZL 85.84 MCA 225.50 SMA 124.96 ECC .18599 INC 4.1563 V1 30.125
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.199 GAP 7.62 AZP 92.92 TAL 187.61 TAP 53.12 RCA 101.72 APO 148.20 V2 34.920
 RC 153.416 GL 30.29 GP -28.26 ZAL 107.77 ZAP 146.07 ETS 309.92 ZAE 126.92 ETE 202.89 ZAC 131.50 ETC 188.88 CLP-160.39

PLANETOCENTRIC CONIC

C3 15.112 VHL 3.887 DLA 42.94 RAL 24.45 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 6.205 DPA -15.11 RAP 44.23 ECC 1.2487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.27 17 23 40 4145.08 -31.21 186.13 253.84 58.87 18 32 45 3545.1 -35.07 178.17
 123.73 0 43 10 2798.05 -31.19 82.56 253.83 58.86 1 29 48 2198.0 -35.06 74.61
 56.27 17 23 40 4145.08 -31.21 186.13 253.84 58.87 18 32 45 3545.1 -35.07 178.17
 123.73 0 43 10 2798.05 -31.19 82.56 253.83 58.86 1 29 48 2198.0 -35.06 74.61
 56.27 17 23 40 4145.08 -31.21 186.13 253.84 58.87 18 32 45 3545.1 -35.07 178.17
 123.73 0 43 10 2798.05 -31.19 82.56 253.83 58.86 1 29 48 2198.0 -35.06 74.61

DIFFERENTIAL CORRECTIONS

TDE 1.5629 TRA -.8077 TC3-5.1526 BAU 1.0444
 RDE .3637 RRA -.0123 RC3 -.4156 FAU .05237
 FDE .9292 FRA -.0502 FC3-2.9999 BSP 15584
 BDE 1.6047 BRA .8078 BC3 5.1693 FSP -772

MID-COURSE EXECUTION ACCURACY

SGT 4898.9 SGR 626.4 SG3 233.9
 RRT .8373 RRF .8760 RTF .9302
 SGB 4938.8 R23 .1708 R13 .9315
 SG1 4927.0 SG2 340.6 THA 6.14

ORBIT DETERMINATION ACCURACY

ST 2357.7 SR 536.2 SS 735.4
 CRT .9806 CRS -.9988 CST -.9735
 LSA 2520.4 MSA 185.0 SSA 15.1
 EL1 2415.7 EL2 102.7 ALF 12.60

LAUNCH DATE FEB 19 1969

FLIGHT TIME 162.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 472.766

RL 147.90 LAL .00 LOL 150.18 VL 27.020 GAL -1.39 AZL 86.18 MCA 228.68 SMA 124.67 ECC .18789 INC 3.8184 V1 30.125
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.177 GAP 7.87 AZP 92.52 TAL 186.01 TAP 54.70 RCA 101.24 APO 148.09 V2 34.932
 RC 155.612 GL 28.37 GP -26.43 ZAL 105.67 ZAP 148.06 ETS 310.11 ZAE 127.49 ETE 201.54 ZAC 133.62 ETC 188.43 CLP-161.39

PLANETOCENTRIC CONIC

C3 14.334 VHL 3.786 DLA 42.18 RAL 28.56 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 6.261 DPA -12.68 RAP 45.39 ECC 1.2359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.32 17 44 26 4121.45 -31.12 183.98 256.81 59.95 18 53 8 3521.5 -34.85 175.96
 122.68 0 55 12 2798.13 -31.11 82.50 256.80 59.93 1 41 50 2198.1 -34.84 74.48
 57.32 17 44 26 4121.45 -31.12 183.98 256.81 59.95 18 53 8 3521.5 -34.85 175.96
 122.68 0 55 12 2798.13 -31.11 82.50 256.80 59.93 1 41 50 2198.1 -34.84 74.48
 57.32 17 44 26 4121.45 -31.12 183.98 256.81 59.95 18 53 8 3521.5 -34.85 175.96
 122.68 0 55 12 2798.13 -31.11 82.50 256.80 59.93 1 41 50 2198.1 -34.84 74.48

DIFFERENTIAL CORRECTIONS

TDE 1.5377 TRA -.6519 TC3-5.5458 BAU 1.0655
 RDE .3485 RRA .0012 RC3 -.3981 FAU .05083
 FDE .8641 FRA .1423 FC3-3.0703 BSP 15868
 BDE 1.5767 BRA .6519 BC3 5.5601 FSP -765

MID-COURSE EXECUTION ACCURACY

SGT 4982.2 SGR 607.5 SG3 231.8
 RRT .8226 RRF .8535 RTF .9290
 SGB 5019.1 R23 .1506 R13 .9301
 SG1 5007.3 SG2 343.7 THA 5.76

ORBIT DETERMINATION ACCURACY

ST 2364.4 SR 527.5 SS 710.0
 CRT .9847 CRS -.9972 CST -.9722
 LSA 2518.1 MSA 177.8 SSA 16.8
 EL1 2420.9 EL2 89.7 ALF 12.41

LAUNCH DATE FEB 19 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 478.583

RL 147.90 LAL .00 LOL 150.18 VL 26.974 GAL -1.03 AZL 86.49 MCA 231.86 SMA 124.38 ECC .18997 INC 3.5116 V1 30.125
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.156 GAP 8.13 AZP 92.17 TAL 184.40 TAP 56.26 RCA 100.75 APO 148.00 V2 34.945
 RC 157.792 GL 26.49 GP -24.81 ZAL 103.33 ZAP 149.89 ETS 310.19 ZAE 127.96 ETE 200.32 ZAC 135.75 ETC 188.01 CLP-162.37

PLANETOCENTRIC CONIC

C3 13.721 VHL 3.704 DLA 41.46 RAL 32.78 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 6.335 DPA -10.45 RAP 46.69 ECC 1.2258
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.36 18 5 41 4099.77 -30.95 181.98 260.04 60.92 19 14 0 3499.8 -34.57 173.90
 121.64 1 7 39 2800.58 -30.94 82.61 260.03 60.90 1 54 19 2200.6 -34.56 74.53
 58.36 18 5 41 4099.77 -30.95 181.98 260.04 60.92 19 14 0 3499.8 -34.57 173.90
 121.64 1 7 39 2800.58 -30.94 82.61 260.03 60.90 1 54 19 2200.6 -34.56 74.53
 58.36 18 5 41 4099.77 -30.95 181.98 260.04 60.92 19 14 0 3499.8 -34.57 173.90
 121.64 1 7 39 2800.58 -30.94 82.61 260.03 60.90 1 54 19 2200.6 -34.56 74.53

DIFFERENTIAL CORRECTIONS

TDE 1.5104 TRA -.4887 TC3-5.9079 BAU 1.0859
 RDE .3365 RRA .0137 RC3 -.3808 FAU .04912
 FDE .7982 FRA .2303 FC3-3.0996 BSP 16159
 BDE 1.5474 BRA .4889 BC3 5.9201 FSP -757

MID-COURSE EXECUTION ACCURACY

SGT 5062.7 SGR 592.7 SG3 229.0
 RRT .8072 RRF .8301 RTF .9283
 SGB 5097.3 R23 .1307 R13 .9292
 SG1 5085.4 SG2 348.3 THA 5.42

ORBIT DETERMINATION ACCURACY

ST 2359.5 SR 520.7 SS 681.3
 CRT .9887 CRS -.9944 CST -.9705
 LSA 2504.6 MSA 170.8 SSA 18.7
 EL1 2415.0 EL2 76.1 ALF 12.32

LAUNCH DATE FEB 19 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 484.385

RL 147.90 LAL .00 LOL 150.18 VL 26.928 GAL -.66 AZL 86.77 HCA 235.05 SMA 124.09 ECC .19223 INC 3.2303 V1 30.125
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.134 GAP 8.40 AZP 91.85 TAL 182.78 TAP 57.82 RCA 100.24 APO 147.94 V2 34.957
 RC 159.953 GL 24.63 GP -23.36 ZAL 100.75 ZAP 151.58 ETS 310.14 ZAE 128.35 ETE 199.22 ZAC 137.89 ETC 187.60 CLP-163.33

PLANETOCENTRIC CONIC

C3 13.254 VHL 3.641 CLA 40.73 RAL 37.11 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 6.425 DPA -8.38 RAP 48.10 ECC 1.2181
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.40 18 27 32 4079.48 -30.71 180.07 263.53 61.80 19 35 31 3479.5 -34.21 171.96
 120.60 1 20 18 2805.80 -30.69 82.90 263.52 61.79 2 7 4 2205.8 -34.20 74.79
 59.40 18 27 32 4079.48 -30.71 180.07 263.53 61.80 19 35 31 3479.5 -34.21 171.96
 120.60 1 20 18 2805.80 -30.69 82.90 263.52 61.79 2 7 4 2205.8 -34.20 74.79
 59.40 18 27 32 4079.48 -30.71 180.07 263.53 61.80 19 35 31 3479.5 -34.21 171.96
 120.60 1 20 18 2805.80 -30.69 82.90 263.52 61.79 2 7 4 2205.8 -34.20 74.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4814 TRA -.3161 TC3-6.2206 BAU 1.1041 SGT 5136.3 SGR 581.5 SG3 225.2 ST 2343.7 SR 515.9 SS 651.8
 RDE .3276 RRA .0256 RC3 -.3623 FAU .04717 RRT .7907 RRF .8063 RTF .9280 CRT .9925 CRS -.9897 CST -.9684
 FDE .7343 FRA .3148 FC3-3.0810 BSP 16383 SGB 5169.1 R23 .1127 R13 .9288 LSA 2481.2 MSA 164.5 SSA 20.6
 BDE 1.5172 BRA .3171 BC3 6.2312 FSP -743 SG1 5156.9 SG2 354.6 THA 5.14 EL1 2399.0 EL2 61.7 ALF 12.33

LAUNCH DATE FEB 19 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 490.173

RL 147.90 LAL .00 LOL 150.18 VL 26.883 GAL -.28 AZL 87.03 HCA 238.23 SMA 123.81 ECC .19468 INC 2.9699 V1 30.125
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.113 GAP 8.67 AZP 91.56 TAL 181.14 TAP 59.38 RCA 99.70 APO 147.91 V2 34.970
 RC 162.097 GL 22.80 GP -22.07 ZAL 97.97 ZAP 153.14 ETS 309.96 ZAE 128.68 ETE 198.23 ZAC 140.05 ETC 187.21 CLP-164.29

PLANETOCENTRIC CONIC

C3 12.922 VHL 3.595 CLA 39.99 RAL 41.53 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.528 DPA -6.47 RAP 49.62 ECC 1.2127
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.50 18 50 5 4060.18 -30.36 178.22 267.24 62.62 19 57 45 3460.2 -33.76 170.09
 119.50 1 33 1 2814.16 -30.35 83.40 267.24 62.61 2 19 55 2214.2 -33.75 75.27
 60.50 18 50 5 4060.18 -30.36 178.22 267.24 62.62 19 57 45 3460.2 -33.76 170.09
 119.50 1 33 1 2814.16 -30.35 83.40 267.24 62.61 2 19 55 2214.2 -33.75 75.27
 60.50 18 50 5 4060.18 -30.36 178.22 267.24 62.62 19 57 45 3460.2 -33.76 170.09
 119.50 1 33 1 2814.16 -30.35 83.40 267.24 62.61 2 19 55 2214.2 -33.75 75.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4433 TRA -.1377 TC3-6.4860 BAU 1.1221 SGT 5207.6 SGR 572.4 SG3 220.9 ST 2306.2 SR 510.8 SS 616.6
 RDE .3201 RRA .0371 RC3 -.3446 FAU .04516 RRT .7739 RRF .7823 RTF .9281 CRT .9955 CRS -.9825 CST -.9653
 FDE .6671 FRA .3941 FC3-3.0254 BSP 16658 SGB 5239.0 R23 .0956 R13 .9287 LSA 2436.0 MSA 159.4 SSA 22.6
 BDE 1.4784 BRA .1426 BC3 6.4952 FSP -731 SG1 5226.5 SG2 361.2 THA 4.89 EL1 2361.7 EL2 47.1 ALF 12.44

LAUNCH DATE FEB 19 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 495.943

RL 147.90 LAL .00 LOL 150.18 VL 26.838 GAL .12 AZL 87.27 HCA 241.42 SMA 123.53 ECC .19735 INC 2.7267 V1 30.125
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.093 GAP 8.94 AZP 91.31 TAL 179.51 TAP 60.93 RCA 99.15 APO 147.90 V2 34.983
 RC 164.221 GL 20.98 GP -20.91 ZAL 95.02 ZAP 154.59 ETS 309.64 ZAE 128.95 ETE 197.33 ZAC 142.22 ETC 186.83 CLP-165.23

PLANETOCENTRIC CONIC

C3 12.720 VHL 3.567 CLA 39.20 RAL 46.02 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 6.644 DPA -4.68 RAP 51.23 ECC 1.2093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.68 19 13 31 4041.12 -29.91 176.35 271.17 63.39 20 20 52 3441.1 -33.22 168.21
 118.32 1 45 23 2826.45 -29.90 84.17 271.16 63.38 2 32 30 2226.4 -33.21 76.03
 61.68 19 13 31 4041.12 -29.91 176.35 271.17 63.39 20 20 52 3441.1 -33.22 168.21
 118.32 1 45 23 2826.45 -29.90 84.17 271.16 63.38 2 32 30 2226.4 -33.21 76.03
 61.68 19 13 31 4041.12 -29.91 176.35 271.17 63.39 20 20 52 3441.1 -33.22 168.21
 118.32 1 45 23 2826.45 -29.90 84.17 271.16 63.38 2 32 30 2226.4 -33.21 76.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.3968 TRA .0452 TC3-6.6871 BAU 1.1385 SGT 5272.3 SGR 564.9 SG3 215.1 ST 2248.6 SR 506.8 SS 580.5
 RDE .3149 RRA .0479 RC3 -.3240 FAU .04286 RRT .7543 RRF .7579 RTF .9283 CRT .9977 CRS -.9720 CST -.9615
 FDE .6018 FRA .4663 FC3-2.9168 BSP 16924 SGB 5302.4 R23 .0826 R13 .9288 LSA 2371.8 MSA 155.5 SSA 24.6
 BDE 1.4318 BRA .0659 BC3 6.6950 FSP -714 SG1 5289.5 SG2 369.7 THA 4.64 EL1 2304.8 EL2 33.7 ALF 12.67

LAUNCH DATE FEB 19 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 501.698

RL 147.90 LAL .00 LOL 150.18 VL 26.793 GAL .54 AZL 87.50 HCA 244.61 SMA 123.25 ECC .20023 INC 2.4976 V1 30.125
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.073 GAP 9.23 AZP 91.07 TAL 177.86 TAP 62.47 RCA 98.57 APO 147.93 V2 34.996
 RC 166.326 GL 19.17 GP -19.87 ZAL 91.90 ZAP 155.93 ETS 309.18 ZAE 129.18 ETE 196.52 ZAC 144.41 ETC 186.45 CLP-166.15

PLANETOCENTRIC CONIC

C3 12.645 VHL 3.556 CLA 38.35 RAL 50.55 RAD 6567.5 VEL 11.577 PTH 2.02 VHP 6.772 DPA -3.02 RAP 52.93 ECC 1.2081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.98 19 37 51 4021.92 -29.35 174.43 275.27 64.12 20 44 53 3421.9 -32.57 166.31
 117.02 1 57 14 2843.11 -29.34 85.23 275.27 64.11 2 44 37 2243.1 -32.56 77.11
 62.98 19 37 51 4021.92 -29.35 174.43 275.27 64.12 20 44 53 3421.9 -32.57 166.31
 117.02 1 57 14 2843.11 -29.34 85.23 275.27 64.11 2 44 37 2243.1 -32.56 77.11
 62.98 19 37 51 4021.92 -29.35 174.43 275.27 64.12 20 44 53 3421.9 -32.57 166.31
 117.02 1 57 14 2843.11 -29.34 85.23 275.27 64.11 2 44 37 2243.1 -32.56 77.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.3451 TRA .2500 TC3-6.8198 BAU 1.1541 SGT 5337.2 SGR 561.6 SG3 211.0 ST 2177.7 SR 503.0 SS 545.0
 RDE .3113 RRA .0609 RC3 -.3087 FAU .04087 RRT .7393 RRF .7376 RTF .9289 CRT .9985 CRS -.9557 CST -.9560
 FDE .5380 FRA .5443 FC3-2.7982 BSP 17024 SGB 5366.6 R23 .0704 R13 .9293 LSA 2295.1 MSA 155.6 SSA 26.4
 BDE 1.3807 BRA .2573 BC3 6.8267 FSP -690 SG1 5353.4 SG2 377.0 THA 4.47 EL1 2234.8 EL2 26.4 ALF 12.99

LAUNCH DATE FEB 19 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 507.433

RL 147.90 LAL .00 LOL 150.18 VL 26.748 GAL .97 AZL 87.72 MCA 247.81 SMA 122.97 ECC .20337 INC 2.2802 V1 30.125
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.053 GAP 9.53 AZP 90.86 TAL 176.21 TAP 64.02 RCA 97.97 APO 147.98 V2 35.010
 RC 168.410 GL 17.37 GP -18.94 ZAL 88.67 ZAP 157.19 ETS 308.57 ZAE 129.39 ETE 195.80 ZAC 146.62 ETC 186.06 CLP-167.06

PLANETOCENTRIC CONIC

C3 12.698 VHL 3.563 DLA 37.43 RAL 55.09 RAD 6567.5 VEL 11.579 PTH 2.03 VHP 6.911 DPA -1.47 RAP 54.70 ECC 1.2090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.42 20 3 13 4001.70 -28.67 172.41 279.52 64.83 21 9 55 3401.7 -31.81 164.30
 115.58 2 8 4 2865.12 -28.66 86.67 279.51 64.81 2 55 50 2265.1 -31.80 78.57
 64.42 20 3 13 4001.70 -28.67 172.41 279.52 64.83 21 9 55 3401.7 -31.81 164.30
 115.58 2 8 4 2865.12 -28.66 86.67 279.51 64.81 2 55 50 2265.1 -31.80 78.57
 64.42 20 3 13 4001.70 -28.67 172.41 279.52 64.83 21 9 55 3401.7 -31.81 164.30
 115.58 2 8 4 2865.12 -28.66 86.67 279.51 64.81 2 55 50 2265.1 -31.80 78.57

DIFFERENTIAL CORRECTIONS

TDE 1.2781 TRA .4555 TC3-6.8863 BAU 1.1701
 RDE .3083 RRA .0728 RC3 -.2928 FAU .03883
 FDE .4711 FRA .6121 FC3-2.6473 BSP 17286
 BDE 1.3148 BRA .4613 BC3 6.8925 FSP -678

MID-COURSE EXECUTION ACCURACY

SGT 5400.0 SGR 557.7 SG3 205.7
 RRT .7235 RRF .7169 RTF .9301
 SGB 5428.8 R23 .0587 R13 .9305
 SG1 5415.2 SG2 384.0 THA 4.29

ORBIT DETERMINATION ACCURACY

ST 2078.8 SR 497.7 SS 505.0
 CRT .9973 CRS -.9320 CST -.9487
 LSA 2190.5 MSA 158.5 SSA 27.7
 EL1 2137.3 EL2 35.6 ALF 13.43

LAUNCH DATE FEB 19 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 513.146

RL 147.90 LAL .00 LOL 150.18 VL 26.703 GAL 1.42 AZL 87.93 MCA 251.01 SMA 122.70 ECC .20676 INC 2.0723 V1 30.125
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.034 GAP 9.84 AZP 90.67 TAL 174.55 TAP 65.56 RCA 97.33 APO 148.08 V2 35.023
 RC 170.474 GL 15.60 GP -18.10 ZAL 85.35 ZAP 158.37 ETS 307.80 ZAE 129.56 ETE 195.14 ZAC 148.85 ETC 185.65 CLP-167.95

PLANETOCENTRIC CONIC

C3 12.884 VHL 3.589 DLA 36.44 RAL 59.60 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 7.062 DPA -.02 RAP 56.55 ECC 1.2120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.04 20 29 40 3979.95 -27.87 170.22 283.88 65.51 21 36 0 3379.9 -30.93 162.15
 113.96 2 17 38 2893.11 -27.86 88.52 283.87 65.49 3 5 51 2293.1 -30.92 80.45
 66.04 20 29 40 3979.95 -27.87 170.22 283.88 65.51 21 36 0 3379.9 -30.93 162.15
 113.96 2 17 38 2893.11 -27.86 88.52 283.87 65.49 3 5 51 2293.1 -30.92 80.45
 66.04 20 29 40 3979.95 -27.87 170.22 283.88 65.51 21 36 0 3379.9 -30.93 162.15
 113.96 2 17 38 2893.11 -27.86 88.52 283.87 65.49 3 5 51 2293.1 -30.92 80.45

DIFFERENTIAL CORRECTIONS

TDE 1.2005 TRA .6714 TC3-6.8710 BAU 1.1844
 RDE .3065 RRA .0853 RC3 -.2763 FAU .03675
 FDE .4053 FRA .6766 FC3-2.4694 BSP 17504
 BDE 1.2390 BRA .6768 BC3 6.8766 FSP -661

MID-COURSE EXECUTION ACCURACY

SGT 5456.8 SGR 554.4 SG3 200.1
 RRT .7078 RRF .6974 RTF .9315
 SGB 5484.9 R23 .0490 R13 .9318
 SG1 5471.0 SG2 390.6 THA 4.13

ORBIT DETERMINATION ACCURACY

ST 1963.1 SR 491.9 SS 466.1
 CRT .9928 CRS -.8976 CST -.9393
 LSA 2069.9 MSA 166.5 SSA 28.4
 EL1 2023.0 EL2 57.2 ALF 13.98

LAUNCH DATE FEB 19 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 518.836

RL 147.90 LAL .00 LOL 150.18 VL 26.659 GAL 1.88 AZL 88.13 MCA 254.21 SMA 122.44 ECC .21043 INC 1.8720 V1 30.125
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.015 GAP 10.16 AZP 90.51 TAL 172.90 TAP 67.10 RCA 96.67 APO 148.20 V2 35.036
 RC 172.518 GL 13.86 GP -17.33 ZAL 81.98 ZAP 159.48 ETS 306.86 ZAE 129.72 ETE 194.55 ZAC 151.08 ETC 185.21 CLP-168.84

PLANETOCENTRIC CONIC

C3 13.209 VHL 3.634 DLA 35.38 RAL 64.05 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 7.224 DPA 1.33 RAP 58.45 ECC 1.2174
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.85 20 57 22 3955.63 -26.96 167.82 288.32 66.17 22 3 18 3355.6 -29.94 159.79
 112.15 2 25 25 2928.18 -26.95 90.86 288.31 66.16 3 14 13 2328.2 -29.93 82.83
 67.85 20 57 22 3955.63 -26.96 167.82 288.32 66.17 22 3 18 3355.6 -29.94 159.79
 112.15 2 25 25 2928.18 -26.95 90.86 288.31 66.16 3 14 13 2328.2 -29.93 82.83
 67.85 20 57 22 3955.63 -26.96 167.82 288.32 66.17 22 3 18 3355.6 -29.94 159.79
 112.15 2 25 25 2928.18 -26.95 90.86 288.31 66.16 3 14 13 2328.2 -29.93 82.83

DIFFERENTIAL CORRECTIONS

TDE 1.1109 TRA .8982 TC3-6.7785 BAU 1.1979
 RDE .3055 RRA .0984 RC3 -.2601 FAU .03472
 FDE .3399 FRA .7384 FC3-2.2755 BSP 17705
 BDE 1.1522 BRA .9036 BC3 6.7835 FSP -644

MID-COURSE EXECUTION ACCURACY

SGT 5510.0 SGR 551.3 SG3 194.4
 RRT .6931 RRF .6792 RTF .9332
 SGB 5537.5 R23 .0403 R13 .9334
 SG1 5523.3 SG2 396.4 THA 3.99

ORBIT DETERMINATION ACCURACY

ST 1833.2 SR 485.0 SS 429.3
 CRT .9830 CRS -.8478 CST -.9271
 LSA 1935.6 MSA 181.0 SSA 28.2
 EL1 1894.3 EL2 86.1 ALF 14.61

LAUNCH DATE FEB 19 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 524.500

RL 147.90 LAL .00 LOL 150.18 VL 26.616 GAL 2.37 AZL 88.32 MCA 257.41 SMA 122.18 ECC .21441 INC 1.6779 V1 30.125
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.996 GAP 10.49 AZP 90.37 TAL 171.24 TAP 68.65 RCA 95.98 APO 148.37 V2 35.050
 RC 174.540 GL 12.15 GP -16.64 ZAL 78.58 ZAP 160.51 ETS 305.75 ZAE 129.86 ETE 194.02 ZAC 153.34 ETC 184.74 CLP-169.71

PLANETOCENTRIC CONIC

C3 13.684 VHL 3.699 DLA 34.25 RAL 68.40 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 7.398 DPA 2.60 RAP 60.42 ECC 1.2252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.88 21 26 33 3927.51 -25.94 165.11 292.81 66.82 22 32 1 3327.5 -28.85 157.13
 110.12 2 30 55 2971.66 -25.93 93.79 292.80 66.81 3 20 27 2371.7 -28.84 85.81
 69.88 21 26 33 3927.51 -25.94 165.11 292.81 66.82 22 32 1 3327.5 -28.85 157.13
 110.12 2 30 55 2971.66 -25.93 93.79 292.80 66.81 3 20 27 2371.7 -28.84 85.81
 69.88 21 26 33 3927.51 -25.94 165.11 292.81 66.82 22 32 1 3327.5 -28.85 157.13
 110.12 2 30 55 2971.66 -25.93 93.79 292.80 66.81 3 20 27 2371.7 -28.84 85.81

DIFFERENTIAL CORRECTIONS

TDE 1.0132 TRA 1.1389 TC3-6.6018 BAU 1.2085
 RDE .3057 RRA .1124 RC3 -.2426 FAU .03263
 FDE .2778 FRA .7997 FC3-2.0642 BSP 17829
 BDE 1.0584 BRA 1.1445 BC3 6.6063 FSP -624

MID-COURSE EXECUTION ACCURACY

SGT 5556.3 SGR 548.5 SG3 188.6
 RRT .6790 RRF .6629 RTF .9345
 SGB 5583.3 R23 .0341 R13 .9347
 SG1 5568.8 SG2 401.8 THA 3.85

ORBIT DETERMINATION ACCURACY

ST 1701.3 SR 477.8 SS 398.8
 CRT .9651 CRS -.7796 CST -.9136
 LSA 1799.9 MSA 202.9 SSA 27.2
 EL1 1762.9 EL2 120.8 ALF 15.24

LAUNCH DATE FEB 19 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 530.135

RL 147.90 LAL .00 LOL 150.18 VL 26.572 GAL 2.88 AZL 88.51 MCA 260.61 SMA 121.92 ECC .21871 INC 1.4885 V1 30.125
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.977 GAP 10.85 AZP 90.24 TAL 169.59 TAP 70.21 RCA 95.25 APO 148.58 V2 35.063
 RC 176.542 GL 10.50 GP -16.01 ZAL 75.19 ZAP 161.48 ETS 304.45 ZAE 129.99 ETE 193.53 ZAC 155.60 ETC 184.20 CLP-170.57

PLANETOCENTRIC CONIC

C3 14.320 VHL 3.784 CLA 33.05 RAL 72.61 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 7.585 DPA 3.79 RAP 62.44 ECC 1.2357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.19 21 57 37 3893.80 -24.83 161.98 297.32 67.45 23 2 31 3293.8 -27.66 154.05
 107.81 2 33 28 3025.37 -24.82 97.43 297.31 67.43 3 23 54 2425.4 -27.65 89.51
 72.19 21 57 37 3893.80 -24.83 161.98 297.32 67.45 23 2 31 3293.8 -27.66 154.05
 107.81 2 33 28 3025.37 -24.82 97.43 297.31 67.43 3 23 54 2425.4 -27.65 89.51
 110.00 3 53 28 2779.59 -30.39 80.63 299.54 73.54 4 39 48 2179.6 -32.34 71.96
 110.00 1 40 43 3187.57 -19.49 107.23 294.56 61.35 2 33 51 2587.6 -23.16 100.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9019 TRA 1.3884 TC3-6.3646 BAU 1.2193 SGT 5599.9 SGR 545.0 SG3 182.7 ST 1565.7 SR 469.1 SS 373.2
 RDE .3065 RRA .1268 RC3 -.2257 FAU .03064 RRT .6655 RRF .6473 RTF .9361 CRT .9340 CRS -.6877 CST -.8991
 FDE .2157 FRA .8572 FC3-1.8522 BSP 18015 SGB 5626.3 R23 .0281 R13 .9362 LSA 1660.2 MSA 232.2 SSA 25.8
 BDE .9525 BRA 1.3942 BC3 6.3686 FSP -608 SG1 5611.7 SG2 405.9 THA 3.73 EL1 1626.5 EL2 161.3 ALF 15.79

LAUNCH DATE FEB 19 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 535.737

RL 147.90 LAL .00 LOL 150.18 VL 26.529 GAL 3.42 AZL 88.70 MCA 263.82 SMA 121.66 ECC .22338 INC 1.3023 V1 30.125
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.959 GAP 11.22 AZP 90.14 TAL 167.94 TAP 71.76 RCA 94.49 APO 148.84 V2 35.076
 RC 178.523 GL 8.90 GP -15.44 ZAL 71.85 ZAP 162.39 ETS 302.94 ZAE 130.10 ETE 193.09 ZAC 157.87 ETC 183.58 CLP-171.43

PLANETOCENTRIC CONIC

C3 15.135 VHL 3.890 CLA 31.82 RAL 76.67 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 7.785 DPA 4.90 RAP 64.50 ECC 1.2491
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.85 22 31 18 3851.71 -23.63 158.22 301.83 68.06 23 35 29 3251.7 -26.40 150.35
 105.15 2 32 9 3092.10 -23.62 102.00 301.83 68.04 3 23 41 2492.1 -26.39 94.13
 74.85 22 31 18 3851.71 -23.63 158.22 301.83 68.06 23 35 29 3251.7 -26.40 150.35
 105.15 2 32 9 3092.10 -23.62 102.00 301.83 68.04 3 23 41 2492.1 -26.39 94.13
 110.00 4 39 3 2698.79 -31.80 74.76 304.75 76.75 5 24 1 2098.8 -33.30 65.85
 110.00 1 27 30 3293.02 -15.94 113.33 297.79 59.35 2 22 23 2693.0 -19.89 106.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7805 TRA 1.6502 TC3-6.0691 BAU 1.2288 SGT 5639.3 SGR 541.0 SG3 176.8 ST 1441.3 SR 459.7 SS 355.6
 RDE .3081 RRA .1419 RC3 -.2087 FAU .02870 RRT .6528 RRF .6328 RTF .9377 CRT .8837 CRS -.5735 CST -.8879
 FDE .1559 FRA .9129 FC3-1.6419 BSP 18192 SGB 5665.1 R23 .0231 R13 .9378 LSA 1530.6 MSA 268.0 SSA 24.2
 BDE .8391 BRA 1.6563 BC3 6.0727 FSP -592 SG1 5650.4 SG2 409.0 THA 3.60 EL1 1498.7 EL2 207.0 ALF 16.05

LAUNCH DATE FEB 19 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 541.303

RL 147.90 LAL .00 LOL 150.18 VL 26.487 GAL 3.98 AZL 88.88 MCA 267.03 SMA 121.41 ECC .22844 INC 1.1183 V1 30.125
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.940 GAP 11.61 AZP 90.06 TAL 166.30 TAP 73.33 RCA 93.68 APO 149.15 V2 35.089
 RC 180.483 GL 7.37 GP -14.92 ZAL 68.57 ZAP 163.24 ETS 301.22 ZAE 130.20 ETE 192.69 ZAC 160.15 ETC 182.83 CLP-172.28

PLANETOCENTRIC CONIC

C3 16.147 VHL 4.018 CLA 30.55 RAL 80.54 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 8.000 DPA 5.93 RAP 66.61 ECC 1.2657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.03 23 9 13 3795.52 -22.38 153.45 306.33 68.64 24 12 29 3195.5 -25.08 145.64
 101.97 2 25 8 3177.54 -22.37 107.90 306.32 68.63 3 18 5 2577.5 -25.07 100.09
 78.03 23 9 13 3795.52 -22.38 153.45 306.33 68.64 24 12 29 3195.5 -25.08 145.64
 101.97 2 25 8 3177.54 -22.37 107.90 306.32 68.63 3 18 5 2577.5 -25.07 100.09
 110.00 5 17 3 2640.01 -32.64 70.38 309.65 79.22 6 1 3 2040.0 -33.78 61.33
 110.00 1 20 25 3381.05 -12.82 118.25 301.30 58.04 2 16 46 2781.1 -16.95 111.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6505 TRA 1.9258 TC3-5.7255 BAU 1.2367 SGT 5674.4 SGR 536.4 SG3 171.1 ST 1339.5 SR 449.6 SS 347.0
 RDE .3105 RRA .1576 RC3 -.1916 FAU .02682 RRT .6410 RRF .6197 RTF .9393 CRT .8072 CRS -.4435 CST -.8849
 FDE .0987 FRA .9677 FC3-1.4378 BSP 18350 SGB 5699.7 R23 .0188 R13 .9394 LSA 1421.8 MSA 307.9 SSA 22.5
 BDE .7208 BRA 1.9322 BC3 5.7287 FSP -576 SG1 5684.9 SG2 411.0 THA 3.49 EL1 1389.6 EL2 255.8 ALF 15.70

LAUNCH DATE FEB 19 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 546.826

RL 147.90 LAL .00 LOL 150.18 VL 26.445 GAL 4.57 AZL 89.06 MCA 270.24 SMA 121.16 ECC .23393 INC .9352 V1 30.125
 RP 107.96 LAP -.94 LOP 60.42 VP 36.922 GAP 12.02 AZP 90.00 TAL 164.67 TAP 74.91 RCA 92.82 APO 149.51 V2 35.102
 RC 182.422 GL 5.92 GP -14.44 ZAL 65.38 ZAP 164.04 ETS 299.26 ZAE 130.29 ETE 192.32 ZAC 162.44 ETC 181.92 CLP-173.13

PLANETOCENTRIC CONIC

C3 17.380 VHL 4.169 CLA 29.27 RAL 84.22 RAD 6567.7 VEL 11.780 PTH 2.08 VHP 8.230 DPA 6.89 RAP 68.76 ECC 1.2860
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.28 0 0 16 3708.85 -21.08 146.46 310.79 69.21 1 2 4 3108.9 -23.71 134.71
 97.72 2 7 23 3298.00 -21.07 116.31 310.79 69.20 3 2 21 2698.0 -23.71 108.56
 100.00 3 16 31 3076.41 -25.16 101.42 312.30 73.30 4 7 47 2476.4 -27.21 93.21
 100.00 1 33 49 3405.66 -17.09 122.50 309.02 65.10 2 30 34 2805.7 -20.31 115.19
 110.00 5 50 38 2593.70 -33.17 66.87 314.37 81.23 6 33 51 1993.7 -34.03 57.74
 110.00 1 16 11 3461.15 -9.90 122.61 304.94 57.11 2 13 52 2861.1 -14.16 116.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5157 TRA 2.2186 TC3-5.3378 BAU 1.2409 SGT 5703.2 SGR 531.5 SG3 165.5 ST 1272.7 SR 439.3 SS 347.4
 RDE .3140 RRA .1742 RC3 -.1737 FAU .02490 RRT .6300 RRF .6081 RTF .9408 CRT .7025 CRS -.3126 CST -.8938
 FDE .0458 FRA 1.0230 FC3-1.2402 BSP 18416 SGB 5727.9 R23 .0158 R13 .9409 LSA 1346.4 MSA 346.6 SSA 20.9
 BDE .6038 BRA 2.2254 BC3 5.3406 FSP -556 SG1 5713.1 SG2 412.0 THA 3.38 EL1 1311.7 EL2 303.3 ALF 14.42

LAUNCH DATE FEB 19 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 552.302

RL 147.90 LAL .00 LOL 150.18 VL 26.403 GAL 5.19 AZL 89.25 HCA 273.46 SMA 120.92 ECC .23389 INC .7519 V1 30.125
 RP 107.92 LAP -.75 LOP 63.64 VP 36.904 GAP 12.46 AZP 89.95 TAL 163.05 TAP 76.51 RCA 91.91 APO 149.93 V2 35.114
 RC 184.340 GL 4.56 GP -14.01 ZAL 62.31 ZAP 164.77 ETS 297.04 ZAE 130.37 ETE 191.98 ZAC 164.72 ETC 180.74 CLP-173.97

PLANETOCENTRIC CONIC

C3 18.861 VHL 4.343 DLA 27.98 RAL 87.70 RAD 6567.8 VEL 11.842 PTH 2.10 VHP 8.478 DPA 7.78 RAP 70.95 ECC 1.3104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 55 45 3398.88 -22.70 124.32 316.30 72.61 2 52 24 2798.9 -24.87 116.32
 90.00 0 39 38 3646.16 -16.83 140.07 314.00 66.89 1 40 24 3046.2 -19.82 132.66
 100.00 4 8 30 2970.94 -27.02 94.13 317.61 76.70 4 58 1 2370.9 -28.58 85.68
 100.00 1 9 34 3549.33 -12.78 130.99 312.03 62.75 2 8 43 2949.3 -16.33 124.00
 110.00 6 20 56 2556.42 -33.52 64.02 318.96 82.88 7 3 33 1956.4 -34.14 54.83
 110.00 1 13 37 3536.62 -7.08 126.64 308.64 56.47 2 12 34 2936.6 -11.44 120.26

DIFFERENTIAL CORRECTIONS

TOE .3695 TRA 2.5222 TC3-4.9366 BAU 1.2454
 RDE .3179 RRA .1909 RC3 -.1569 FAU .02312
 FDE -.0064 FRA 1.0758 FC3-1.0614 BSP 18564
 BDE .4874 BRA 2.5294 BC3 4.9391 FSP -541

MID-COURSE EXECUTION ACCURACY

SGT 5729.0 SGR 525.2 SG3 160.1
 RRT .6194 RRF .5966 RTF .9425
 SGB 5753.0 R23 .0125 R13 .9426
 SG1 5758.3 SG2 411.6 THA 3.27

ORBIT DETERMINATION ACCURACY

ST 1237.7 SR 428.0 SS 353.8
 CRT .5694 CRS -.1831 CST -.9108
 LSA 1302.4 MSA 379.1 SSA 19.5
 EL1 1263.5 EL2 344.7 ALF 12.05

LAUNCH DATE FEB 19 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 557.722

RL 147.90 LAL .00 LOL 150.18 VL 26.362 GAL 5.84 AZL 89.43 HCA 276.68 SMA 120.68 ECC .24637 INC .5672 V1 30.125
 RP 107.88 LAP -.56 LOP 66.85 VP 36.887 GAP 12.92 AZP 89.93 TAL 161.44 TAP 78.12 RCA 90.95 APO 150.42 V2 35.126
 RC 186.236 GL 3.28 GP -13.61 ZAL 59.37 ZAP 165.45 ETS 294.56 ZAE 130.43 ETE 191.67 ZAC 167.00 ETC 179.18 CLP-174.82

PLANETOCENTRIC CONIC

C3 20.626 VHL 4.542 DLA 26.72 RAL 90.97 RAD 6567.8 VEL 11.917 PTH 2.12 VHP 8.744 DPA 8.60 RAP 73.17 ECC 1.3394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 8 3270.71 -25.05 115.66 321.74 76.34 3 48 39 2670.7 -26.68 107.37
 90.00 0 7 20 3816.80 -12.00 150.27 316.82 64.16 1 10 57 3216.8 -15.38 143.22
 100.00 4 47 17 2905.93 -27.95 89.53 322.45 78.96 5 35 43 2305.9 -29.19 80.94
 100.00 0 56 52 3656.80 -9.35 137.13 315.43 61.48 1 57 49 3056.8 -13.09 130.34
 110.00 6 48 33 2526.50 -33.75 61.71 323.45 84.23 7 30 40 1926.5 -34.18 52.49
 110.00 1 12 5 3609.00 -4.34 130.46 312.38 56.06 2 12 14 3009.0 -8.77 124.17

DIFFERENTIAL CORRECTIONS

TOE .2170 TRA 2.8424 TC3-4.5223 BAU 1.2476
 RDE .3226 RRA .2081 RC3 -.1404 FAU .02140
 FDE -.0556 FRA 1.1287 FC3 -.8983 BSP 18690
 BDE .3888 BRA 2.8500 BC3 4.5245 FSP -526

MID-COURSE EXECUTION ACCURACY

SGT 5750.2 SGR 517.9 SG3 154.8
 RRT .6093 RRF .5860 RTF .9444
 SGB 5773.5 R23 .0096 R13 .9444
 SG1 5758.9 SG2 410.1 THA 3.16

ORBIT DETERMINATION ACCURACY

ST 1241.2 SR 416.5 SS 365.6
 CRT .4218 CRS -.0680 CST -.9319
 LSA 1299.2 MSA 399.4 SSA 18.2
 EL1 1254.8 EL2 373.5 ALF 8.85

LAUNCH DATE FEB 19 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 563.079

RL 147.90 LAL .00 LOL 150.18 VL 26.321 GAL 6.53 AZL 89.62 HCA 279.90 SMA 120.45 ECC .25343 INC .3800 V1 30.125
 RP 107.85 LAP -.37 LOP 70.07 VP 36.869 GAP 13.42 AZP 89.93 TAL 159.85 TAP 79.75 RCA 89.92 APO 150.97 V2 35.138
 RC 188.109 GL 2.09 GP -13.25 ZAL 56.56 ZAP 166.07 ETS 291.79 ZAE 130.48 ETE 191.38 ZAC 169.27 ETC 176.97 CLP-175.66

PLANETOCENTRIC CONIC

C3 22.713 VHL 4.766 DLA 25.48 RAL 94.03 RAD 6567.9 VEL 12.004 PTH 2.14 VHP 9.031 DPA 9.35 RAP 75.41 ECC 1.3738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 33 58 3200.90 -26.08 110.81 326.58 78.56 4 27 19 2600.9 -27.40 102.39
 90.00 23 48 1 3933.13 -8.47 156.98 320.16 62.88 24 53 34 3333.1 -12.04 150.13
 100.00 5 19 58 2859.14 -28.52 86.16 327.09 80.64 6 7 37 2259.1 -29.52 77.50
 100.00 0 48 38 3750.12 -6.28 142.36 318.98 60.72 1 51 8 3150.1 -10.14 135.69
 110.00 7 13 49 2502.93 -33.90 59.89 327.86 85.30 7 55 32 1902.9 -34.18 50.65
 110.00 1 11 16 3679.10 -1.67 134.12 316.13 55.85 2 12 35 3079.1 -6.14 127.89

DIFFERENTIAL CORRECTIONS

TOE .0583 TRA 3.1803 TC3-4.1051 BAU 1.2471
 RDE .3282 RRA .2255 RC3 -.1242 FAU .01971
 FDE -.1019 FRA 1.1821 FC3 -.7514 BSP 18801
 BDE .3333 BRA 3.1883 BC3 4.1070 FSP -511

MID-COURSE EXECUTION ACCURACY

SGT 5766.6 SGR 509.8 SG3 149.8
 RRT .5996 RRF .5761 RTF .9463
 SGB 5789.1 R23 .0073 R13 .9463
 SG1 5774.7 SG2 407.4 THA 3.05

ORBIT DETERMINATION ACCURACY

ST 1277.9 SR 404.7 SS 381.1
 CRT .2756 CRS .0289 CST -.9518
 LSA 1333.1 MSA 405.8 SSA 17.1
 EL1 1283.3 EL2 387.4 ALF 5.49

LAUNCH DATE FEB 19 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 568.362

RL 147.90 LAL .00 LOL 150.18 VL 26.281 GAL 7.27 AZL 89.81 HCA 283.12 SMA 120.22 ECC .26113 INC .1886 V1 30.125
 RP 107.81 LAP -.18 LOP 73.29 VP 36.851 GAP 13.96 AZP 89.96 TAL 158.29 TAP 81.40 RCA 88.83 APO 151.61 V2 35.150
 RC 189.959 GL .98 GP -12.91 ZAL 53.90 ZAP 166.63 ETS 288.72 ZAE 130.52 ETE 191.12 ZAC 171.52 ETC 173.60 CLP-176.52

PLANETOCENTRIC CONIC

C3 25.174 VHL 5.017 DLA 24.28 RAL 96.90 RAD 6568.0 VEL 12.106 PTH 2.17 VHP 9.341 DPA 10.04 RAP 77.68 ECC 1.4143
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 43 3152.67 -26.69 107.41 331.19 80.16 4 59 16 2552.7 -27.77 98.91
 90.00 23 38 6 4031.74 -5.37 162.57 323.68 62.15 24 45 18 3431.7 -9.05 155.83
 100.00 5 48 35 2824.23 -28.88 83.63 331.58 81.93 6 35 39 2224.2 -29.69 74.92
 100.00 0 42 51 3835.41 -3.42 147.07 322.61 60.29 1 46 46 3235.4 -7.35 140.49
 110.00 7 37 0 2485.05 -33.99 58.50 332.21 86.12 8 18 25 1885.0 -34.15 49.26
 110.00 1 10 55 3747.36 .94 137.68 319.89 55.83 2 13 23 3147.4 -3.55 131.48

DIFFERENTIAL CORRECTIONS

TOE -.1026 TRA 3.5408 TC3-3.6880 BAU 1.2417
 RDE .3348 RRA .2433 RC3 -.1082 FAU .01801
 FDE -.1443 FRA 1.2376 FC3 -.6193 BSP 18804
 BDE .3501 BRA 3.5492 BC3 3.6896 FSP -492

MID-COURSE EXECUTION ACCURACY

SGT 5777.9 SGR 500.8 SG3 145.0
 RRT .5906 RRF .5675 RTF .9483
 SGB 5799.6 R23 .0058 R13 .9483
 SG1 5785.5 SG2 403.6 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 1340.4 SR 393.1 SS 398.5
 CRT .1466 CRS .1052 CST -.9673
 LSA 1396.0 MSA 401.2 SSA 16.1
 EL1 1341.8 EL2 388.4 ALF 2.69

LAUNCH DATE FEB 19 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 573.559

RL 147.90 LAL .00 LOL 150.18 VL 26.241 GAL 8.05 AZL 90.01 MCA 286.34 SMA 119.99 ECC .26954 INC .00000 V1 30.125
 RP 107.78 LAP .01 LOP 76.52 VP 36.834 GAP 14.53 AZP 90.00 TAL 156.75 TAP 83.09 RCA 87.65 APO 152.33 V2 35.161
 RC 191.786 GL -.04 GP -12.61 ZAL 51.39 ZAP 167.13 ETS 285.33 ZAE 130.54 ETE 190.87 ZAC 173.71 ETC 167.87 CLP-177.37

PLANETOCENTRIC CONIC

C3 28.068 VHL 5.298 DLA 23.12 RAL 99.56 RAD 6568.1 VEL 12.225 PTH 2.20 VHP 9.678 DPA 10.67 RAP 79.96 ECC 1.4619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 1 3117.69 -27.07 104.92 335.65 81.35 5 26 59 2517.7 -27.99 96.37
 90.00 23 31 4 4120.68 -2.52 167.56 327.27 61.79 24 39 44 3520.7 -6.27 160.89
 100.00 6 14 5 2798.28 -29.11 81.74 335.97 82.90 7 0 43 2198.3 -29.79 73.00
 100.00 0 38 37 3915.33 -.72 151.46 326.27 60.12 1 43 52 3315.3 -4.69 144.93
 110.00 7 58 16 2472.32 -34.04 57.51 336.50 86.70 8 39 29 1872.3 -34.13 48.26
 110.00 1 10 55 3814.05 3.49 141.17 323.65 55.97 2 14 29 3214.1 -1.00 134.96

DIFFERENTIAL CORRECTIONS

TDE -.2746 TRA 3.9170 TC3-3.2914 BAU 1.2356
 RDE .3417 RRA .2607 RC3 -.0936 FAU .01643
 FDE -.1865 FRA 1.2924 FC3 -.5069 BSP 18902
 BDE .4384 BRA 3.9257 BC3 3.2928 FSP -478

MID-COURSE EXECUTION ACCURACY

SGT 5785.0 SGR 490.3 SG3 140.3
 RRT .5810 RRF .5582 RTF .9506
 SGB 5805.8 R23 .0040 R13 .9506
 SG1 5792.1 SG2 398.6 THA 2.83

ORBIT DETERMINATION ACCURACY

ST 1417.2 SR 380.9 SS 417.1
 CRT .0326 CRS .1714 CST -.9783
 LSA 1475.0 MSA 389.5 SSA 15.3
 EL1 1417.3 EL2 380.6 ALF .54

LAUNCH DATE FEB 19 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 578.656

RL 147.90 LAL .00 LOL 150.18 VL 26.202 GAL 8.88 AZL 90.21 MCA 289.57 SMA 119.77 ECC .27875 INC .2097 V1 30.125
 RP 107.75 LAP .20 LOP 79.74 VP 36.816 GAP 15.15 AZP 90.07 TAL 155.24 TAP 84.81 RCA 86.38 APO 153.16 V2 35.172
 RC 193.588 GL -.97 GP -12.33 ZAL 49.03 ZAP 167.55 ETS 281.63 ZAE 130.54 ETE 190.63 ZAC 175.76 ETC 156.40 CLP-178.24

PLANETOCENTRIC CONIC

C3 31.467 VHL 5.610 DLA 22.01 RAL 102.04 RAD 6568.3 VEL 12.363 PTH 2.23 VHP 10.044 DPA 11.23 RAP 82.25 ECC 1.5179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 1 3092.36 -27.31 103.10 340.00 82.23 5 51 34 2492.4 -28.11 94.53
 90.00 23 25 48 4203.28 .14 172.16 330.91 61.68 24 35 52 3603.3 -3.64 165.53
 100.00 6 37 1 2779.61 -29.26 80.37 340.28 83.60 7 23 21 2179.6 -29.84 71.61
 100.00 0 35 26 3991.26 1.86 155.63 329.95 60.16 1 41 57 3391.3 -2.12 149.11
 110.00 8 17 48 2464.31 -34.07 56.88 340.74 87.07 8 58 52 1864.3 -34.10 47.64
 110.00 1 11 8 3879.33 5.96 144.60 327.40 56.28 2 15 48 3279.3 1.49 138.37

DIFFERENTIAL CORRECTIONS

TDE -.4519 TRA 4.3165 TC3-2.9116 BAU 1.2253
 RDE .3496 RRA .2778 RC3 -.0798 FAU .01489
 FDE -.2262 FRA 1.3492 FC3 -.4096 BSP 18977
 BDE .5713 BRA 4.3255 BC3 2.9127 FSP -464

MID-COURSE EXECUTION ACCURACY

SGT 5787.7 SGR 478.7 SG3 135.9
 RRT .5713 RRF .5492 RTF .9531
 SGB 5807.5 R23 .0027 R13 .9531
 SG1 5794.2 SG2 392.4 THA 2.72

ORBIT DETERMINATION ACCURACY

ST 1502.6 SR 368.7 SS 436.0
 CRT -.0606 CRS .2241 CST -.9857
 LSA 1563.2 MSA 374.1 SSA 14.5
 EL1 1502.8 EL2 367.9 ALF 179.09

LAUNCH DATE FEB 19 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 583.633

RL 147.90 LAL .00 LOL 150.18 VL 26.164 GAL 9.78 AZL 90.42 MCA 292.79 SMA 119.55 ECC .28885 INC .4216 V1 30.125
 RP 107.71 LAP .39 LOP 82.97 VP 36.799 GAP 15.82 AZP 90.16 TAL 153.77 TAP 86.56 RCA 85.02 APO 154.09 V2 35.182
 RC 195.366 GL -1.83 GP -12.07 ZAL 46.83 ZAP 167.90 ETS 277.60 ZAE 130.52 ETE 190.40 ZAC 177.37 ETC 128.15 CLP-179.13

PLANETOCENTRIC CONIC

C3 35.461 VHL 5.955 DLA 20.95 RAL 104.33 RAD 6568.4 VEL 12.523 PTH 2.27 VHP 10.443 DPA 11.73 RAP 84.55 ECC 1.5836
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 22 22 3074.68 -27.47 101.83 344.26 82.85 6 13 37 2474.7 -28.18 93.24
 90.00 23 21 45 4281.22 2.66 176.51 334.56 61.80 24 33 6 3681.2 -1.13 169.88
 100.00 6 57 45 2767.11 -29.35 79.45 344.51 84.08 7 43 53 2167.1 -29.86 70.69
 100.00 0 32 59 4064.02 4.32 159.63 333.65 60.39 1 40 43 3464.0 .34 153.10
 110.00 8 35 43 2460.63 -34.08 56.60 344.93 87.24 9 16 44 1860.6 -34.09 47.35
 110.00 1 11 31 3943.27 8.37 147.99 331.16 56.74 2 17 14 3343.3 3.93 141.71

DIFFERENTIAL CORRECTIONS

TDE -.6361 TRA 4.7410 TC3-2.5527 BAU 1.2106
 RDE .3581 RRA .2943 RC3 -.0670 FAU .01337
 FDE -.2642 FRA 1.4082 FC3 -.3265 BSP 19034
 BDE .7300 BRA 4.7501 BC3 2.5536 FSP -450

MID-COURSE EXECUTION ACCURACY

SGT 5785.9 SGR 465.9 SG3 131.6
 RRT .5612 RRF .5402 RTF .9558
 SGB 5804.6 R23 .0017 R13 .9558
 SG1 5791.8 SG2 385.2 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 1590.7 SR 356.4 SS 454.9
 CRT -.1365 CRS .2670 CST -.9906
 LSA 1654.2 MSA 357.1 SSA 13.7
 EL1 1591.5 EL2 352.9 ALF 178.16

LAUNCH DATE FEB 19 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 588.470

RL 147.90 LAL .00 LOL 150.18 VL 26.126 GAL 10.74 AZL 90.64 MCA 296.02 SMA 119.34 ECC .29996 INC .6434 V1 30.125
 RP 107.68 LAP .58 LOP 86.20 VP 36.781 GAP 16.56 AZP 90.28 TAL 152.35 TAP 88.37 RCA 83.54 APO 155.14 V2 35.192
 RC 197.118 GL -2.61 GP -11.83 ZAL 44.79 ZAP 168.17 ETS 273.26 ZAE 130.48 ETE 190.19 ZAC 177.48 ETC 75.72 CLP 179.97

PLANETOCENTRIC CONIC

C3 40.161 VHL 6.337 DLA 19.96 RAL 106.45 RAD 6568.5 VEL 12.709 PTH 2.31 VHP 10.880 DPA 12.18 RAP 86.86 ECC 1.6609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 28 3063.35 -27.56 101.02 348.44 83.24 6 33 32 2463.4 -28.21 92.41
 90.00 23 18 33 4355.44 5.04 180.67 338.23 62.10 24 31 8 3755.4 1.26 174.02
 100.00 7 16 34 2759.95 -29.40 78.93 348.66 84.35 8 2 34 2159.9 -29.87 70.15
 100.00 0 31 5 4134.08 6.66 163.51 337.34 60.79 1 39 59 3534.1 2.72 156.94
 110.00 8 52 9 2460.90 -34.08 56.62 349.07 87.23 9 33 10 1860.9 -34.09 47.37
 110.00 1 11 59 4005.89 10.69 151.35 334.90 57.34 2 18 45 3405.9 6.31 145.00

DIFFERENTIAL CORRECTIONS

TDE -.8239 TRA 5.1964 TC3-2.2134 BAU 1.1888
 RDE .3677 RRA .3102 RC3 -.0549 FAU .01183
 FDE -.2997 FRA 1.4713 FC3 -.2550 BSP 18988
 BDE .9022 BRA 5.2056 BC3 2.2141 FSP -434

MID-COURSE EXECUTION ACCURACY

SGT 5779.9 SGR 452.1 SG3 127.6
 RRT .5508 RRF .5314 RTF .9586
 SGB 5797.6 R23 .0014 R13 .9586
 SG1 5785.3 SG2 377.0 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1676.4 SR 344.3 SS 473.6
 CRT -.1961 CRS .3001 CST -.9938
 LSA 1742.8 MSA 340.3 SSA 13.1
 EL1 1677.8 EL2 337.3 ALF 177.60

LAUNCH DATE FEB 19 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 593.137

RL 147.90 LAL .00 LOL 150.18 VL 26.090 GAL 11.77 AZL 90.88 HCA 299.25 SMA 119.14 ECC .31222 INC .8780 V1 30.125
 RP 107.66 LAP .77 LOP 89.43 VP 36.764 GAP 17.36 AZP 90.43 TAL 150.98 TAP 90.23 RCA 81.94 APO 156.33 V2 35.201
 RC 198.846 GL -3.32 GP -11.61 ZAL 42.89 ZAP 168.35 ETS 268.64 ZAE 130.41 ETE 189.98 ZAC 176.01 ETC 44.59 CLP 179.04

PLANETOCENTRIC CONIC

C3 45.704 VHL 6.760 DLA 19.02 RAL 108.40 RAD 6568.7 VEL 12.925 PTH 2.36 VHP 11.361 DPA 12.56 RAP 89.15 ECC 1.7522
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 36 3057.42 -27.61 100.59 352.53 83.45 6 51 34 2457.4 -28.23 91.98
 90.00 23 15 58 4426.52 7.28 184.68 341.89 62.56 24 29 44 3826.5 3.55 177.99
 100.00 7 33 38 2757.45 -29.42 78.74 352.75 84.45 8 19 35 2157.5 -29.88 69.97
 100.00 0 29 34 4201.72 8.89 167.30 341.03 61.34 1 39 35 3601.7 4.99 160.67
 110.00 9 7 11 2464.75 -34.07 56.92 353.15 87.05 9 48 16 1864.8 -34.10 47.67
 110.00 1 12 30 4067.18 12.92 154.70 338.63 58.07 2 20 17 3467.2 8.60 148.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.0242 TRA 5.6785 TC3 -1.9022 BAU 1.1626 SGT 5769.1 SGR 436.8 SG3 123.7 ST 1758.3 SR 331.8 SS 492.5
 RDE .3777 RRA .3247 RC3 -.0443 FAU .01038 RRT .5368 RRF .5210 RTF .9618 CRT -.2475 CRS .3302 CST -.9959
 FDE -.3357 FRA 1.5365 FC3 -.1966 BSP 19054 SGB 5785.6 R23 .0008 R13 .9618 LSA 1827.5 MSA 323.3 SSA 12.4
 BDE 1.0916 BRA 5.6878 BC3 1.9028 FSP -422 SG1 5773.9 SG2 367.6 THA 2.35 EL1 1760.3 EL2 321.1 ALF 177.23

LAUNCH DATE FEB 19 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 597.599

RL 147.90 LAL .00 LOL 150.18 VL 26.054 GAL 12.89 AZL 91.13 HCA 302.48 SMA 118.94 ECC .32578 INC 1.1280 V1 30.125
 RP 107.63 LAP .95 LOP 92.66 VP 36.746 GAP 18.24 AZP 90.61 TAL 149.67 TAP 92.15 RCA 80.19 APO 157.68 V2 35.209
 RC 200.549 GL -3.97 GP -11.41 ZAL 41.15 ZAP 168.43 ETS 263.77 ZAE 130.30 ETE 189.77 ZAC 174.04 ETC 32.14 CLP 178.09

PLANETOCENTRIC CONIC

C3 52.261 VHL 7.229 DLA 18.14 RAL 110.18 RAD 6568.9 VEL 13.177 PTH 2.41 VHP 11.891 DPA 12.89 RAP 91.43 ECC 1.8601
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 59 3056.14 -27.62 100.50 356.54 83.50 7 7 55 2456.1 -28.23 91.88
 90.00 23 13 50 4494.77 9.40 188.58 345.54 63.17 24 28 45 3894.8 5.73 181.83
 100.00 7 49 6 2759.06 -29.41 78.86 356.75 84.39 8 35 5 2159.1 -29.88 70.09
 100.00 0 28 20 4267.08 11.00 171.00 344.70 62.03 1 39 27 3667.1 7.17 164.30
 110.00 9 20 54 2471.84 -34.04 57.47 357.17 86.72 10 2 6 1871.8 -34.12 48.23
 110.00 1 13 1 4127.06 15.05 158.03 342.35 58.94 2 21 48 3527.1 10.82 151.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.2336 TRA 6.1939 TC3 -1.6172 BAU 1.1302 SGT 5754.1 SGR 420.3 SG3 119.9 ST 1833.7 SR 319.4 SS 511.6
 RDE .3887 RRA .3374 RC3 -.0347 FAU .00892 RRT .5252 RRF .5094 RTF .9650 CRT -.2906 CRS .3561 CST -.9973
 FDE -.3710 FRA 1.6061 FC3 -.1478 BSP 19071 SGB 5769.4 R23 .0007 R13 .9650 LSA 1905.8 MSA 306.7 SSA 11.9
 BDE 1.2934 BRA 6.2031 BC3 1.6176 FSP -409 SG1 5758.4 SG2 357.4 THA 2.21 EL1 1836.1 EL2 305.2 ALF 177.02

LAUNCH DATE FEB 19 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 601.814

RL 147.90 LAL .00 LOL 150.18 VL 26.019 GAL 14.11 AZL 91.40 HCA 305.71 SMA 118.74 ECC .34083 INC 1.3968 V1 30.125
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.729 GAP 19.22 AZP 90.82 TAL 148.44 TAP 94.15 RCA 78.27 APO 159.21 V2 35.217
 RC 202.227 GL -4.55 GP -11.22 ZAL 39.56 ZAP 168.41 ETS 258.72 ZAE 130.15 ETE 189.57 ZAC 171.97 ETC 26.08 CLP 177.10

PLANETOCENTRIC CONIC

C3 60.052 VHL 7.749 DLA 17.33 RAL 111.81 RAD 6569.1 VEL 13.469 PTH 2.46 VHP 12.480 DPA 13.16 RAP 93.68 ECC 1.9883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 44 3058.89 -27.60 100.70 .45 83.40 7 22 43 2458.9 -28.23 92.09
 90.00 23 12 2 4560.36 11.39 192.37 349.15 63.90 24 28 3 3960.4 7.79 185.54
 100.00 8 3 6 2764.27 -29.37 79.24 .67 84.19 8 49 10 2164.3 -29.87 70.47
 100.00 0 27 18 4330.21 12.99 174.63 348.33 62.84 1 39 28 3730.2 9.25 167.84
 110.00 9 33 23 2481.82 -34.00 58.25 346.03 86.26 10 14 44 1881.8 -34.15 49.00
 110.00 1 13 30 4185.43 17.07 161.35 346.03 59.92 2 23 16 3585.4 12.94 154.67

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.4528 TRA 6.7489 TC3 -1.3551 BAU 1.0881 SGT 5734.8 SGR 402.5 SG3 116.3 ST 1901.8 SR 307.0 SS 531.2
 RDE .4006 RRA .3480 RC3 -.0263 FAU .00744 RRT .5096 RRF .4960 RTF .9683 CRT -.3276 CRS .3788 CST -.9983
 FDE -.4059 FRA 1.6812 FC3 -.1072 BSP 19081 SGB 5748.9 R23 .0009 R13 .9684 LSA 1977.0 MSA 290.7 SSA 11.3
 BDE 1.5070 BRA 6.7579 BC3 1.3554 FSP -397 SG1 5738.5 SG2 346.1 THA 2.06 EL1 1904.5 EL2 289.7 ALF 176.90

LAUNCH DATE FEB 19 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 605.725

RL 147.90 LAL .00 LOL 150.18 VL 25.985 GAL 15.45 AZL 91.69 HCA 308.95 SMA 118.55 ECC .35759 INC 1.6884 V1 30.125
 RP 107.58 LAP 1.31 LOP 99.13 VP 36.712 GAP 20.30 AZP 91.06 TAL 147.30 TAP 96.25 RCA 76.16 APO 160.95 V2 35.225
 RC 203.880 GL -5.08 GP -11.05 ZAL 38.12 ZAP 168.28 ETS 253.53 ZAE 129.96 ETE 189.37 ZAC 169.89 ETC 22.60 CLP 176.07

PLANETOCENTRIC CONIC

C3 69.353 VHL 8.328 DLA 16.57 RAL 113.27 RAD 6569.3 VEL 13.810 PTH 2.52 VHP 13.135 DPA 13.39 RAP 95.91 ECC 2.1414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 0 3065.14 -27.55 101.15 4.25 83.18 7 36 5 2465.1 -28.21 92.54
 90.00 23 10 29 4623.31 13.25 196.06 352.71 64.75 24 27 32 4023.3 9.74 189.14
 100.00 8 15 42 2772.63 -29.31 79.86 4.48 83.87 9 1 55 2172.6 -29.85 71.09
 100.00 0 26 24 4391.06 14.85 178.19 351.92 63.76 1 39 35 3791.1 11.21 171.30
 110.00 9 44 39 2494.34 -33.94 59.22 4.97 85.69 10 26 14 1894.3 -34.17 49.98
 110.00 1 13 56 4242.11 18.97 164.64 349.67 61.02 2 24 38 3642.1 14.96 157.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -1.6789 TRA 7.3519 TC3 -1.1141 BAU 1.0331 SGT 5712.1 SGR 383.8 SG3 113.0 ST 1960.6 SR 294.8 SS 551.2
 RDE .4138 RRA .3560 RC3 -.0188 FAU .00586 RRT .4916 RRF .4806 RTF .9717 CRT -.3588 CRS .3983 CST -.9989
 FDE -.4399 FRA 1.7640 FC3 -.0731 BSP 18967 SGB 5725.0 R23 .0014 R13 .9717 LSA 2039.3 MSA 275.4 SSA 10.7
 BDE 1.7291 BRA 7.3605 BC3 1.1143 FSP -383 SG1 5715.2 SG2 334.1 THA 1.90 EL1 1963.5 EL2 274.8 ALF 176.85

LAUNCH DATE FEB 19 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 609.260

RL 147.90 LAL .00 LOL 150.18 VL 25.952 GAL 16.92 AZL 92.01 HCA 312.18 SMA 118.37 ECC .37631 INC 2.0081 V1 30.125
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.696 GAP 21.51 AZP 91.35 TAL 146.27 TAP 98.45 RCA 73.83 APO 162.92 V2 35.232
 RC 205.508 GL -5.56 GP -10.89 ZAL 36.84 ZAP 168.02 ETS 248.29 ZAE 129.70 ETE 189.16 ZAC 167.82 ETC 20.37 CLP 174.98

PLANETOCENTRIC CONIC

C3 80.524 VHL 8.974 DLA 15.88 RAL 114.58 RAD 6569.6 VEL 14.208 PTH 2.59 VMP 13.868 OPA 13.57 RAP 98.08 ECC 2.3252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 50 3074.43 -27.47 101.82 7.92 82.85 7 48 4 2474.4 -28.18 93.22
 90.00 23 9 6 4683.57 14.97 199.65 356.21 65.68 24 27 9 4083.6 11.57 192.63
 100.00 8 26 59 2783.73 -29.23 80.67 8.16 83.45 9 13 22 2183.7 -29.83 71.92
 100.00 0 25 34 4449.51 16.58 181.67 355.44 64.77 1 39 44 3849.5 13.04 174.66
 110.00 9 54 46 2509.06 -33.86 60.36 8.71 85.02 10 36 35 1909.1 -34.18 51.13
 110.00 1 14 17 4296.93 20.75 167.90 353.24 62.20 2 25 53 3696.9 16.86 160.93

DIFFERENTIAL CORRECTIONS

TDE-1.9239 TRA 7.9989 TC3 -.8992 BAU .9681
 RDE .4280 RRA .3601 RC3 -.0127 FAU .00427
 FDE -.4761 FRA 1.8529 FC3 -.0459 BSP 18978
 BDE 1.9710 BRA 8.0070 BC3 .8993 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 5684.0 SGR 363.8 SG3 109.7
 RRT .4692 RRF .4608 RTF .9751
 SGB 5695.6 R23 .0020 R13 .9751
 SG1 5686.6 SG2 321.1 THA 1.73

ORBIT DETERMINATION ACCURACY

ST 2012.2 SR 282.5 SS 572.9
 CRT -.3895 CRS .4190 CST -.9993
 LSA 2095.0 MSA 260.2 SSA 10.2
 EL1 2015.2 EL2 259.8 ALF 176.82

LAUNCH DATE FEB 19 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 612.327

RL 147.90 LAL .00 LOL 150.18 VL 25.920 GAL 18.54 AZL 92.36 HCA 315.41 SMA 118.20 ECC .39733 INC 2.3623 V1 30.125
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.679 GAP 22.86 AZP 91.68 TAL 145.38 TAP 100.79 RCA 71.24 APO 165.17 V2 35.238
 RC 207.111 GL -6.00 GP -10.74 ZAL 35.71 ZAP 167.64 ETS 243.05 ZAE 129.38 ETE 188.94 ZAC 165.81 ETC 18.85 CLP 173.83

PLANETOCENTRIC CONIC

C3 94.032 VHL 9.697 DLA 15.25 RAL 115.73 RAD 6569.8 VEL 14.676 PTH 2.66 VMP 14.694 OPA 13.70 RAP 100.20 ECC 2.5475
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 7 17 3086.32 -27.37 102.67 11.44 82.44 7 58 43 2486.3 -28.13 94.09
 90.00 23 7 48 4740.99 16.55 203.12 359.60 66.69 24 26 49 4141.0 13.26 196.00
 100.00 8 36 56 2797.18 -29.12 81.66 11.70 82.94 9 23 33 2197.2 -29.79 72.92
 100.00 0 24 46 4505.36 18.17 185.06 358.86 65.85 1 39 51 3905.4 14.75 177.93
 110.00 10 3 42 2525.68 -33.76 61.65 12.31 84.27 10 45 48 1925.7 -34.18 52.43
 110.00 1 14 29 4349.63 22.38 171.12 356.73 63.46 2 26 59 3749.6 18.64 163.98

DIFFERENTIAL CORRECTIONS

TDE-2.1825 TRA 8.7027 TC3 -.7052 BAU .8865
 RDE .4439 RRA .3597 RC3 -.0075 FAU .00255
 FDE -.5132 FRA 1.9513 FC3 -.0235 BSP 18959
 BDE 2.2272 BRA 8.7101 BC3 .7052 FSP -362

MID-COURSE EXECUTION ACCURACY

SGT 5651.5 SGR 342.8 SG3 106.6
 RRT .4418 RRF .4359 RTF .9785
 SGB 5661.9 R23 .0027 R13 .9785
 SG1 5653.5 SG2 307.4 THA 1.54

ORBIT DETERMINATION ACCURACY

ST 2054.6 SR 270.5 SS 596.1
 CRT -.4184 CRS .4397 CST -.9996
 LSA 2142.3 MSA 245.4 SSA 9.6
 EL1 2057.7 EL2 245.3 ALF 176.80

LAUNCH DATE FEB 19 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 614.804

RL 147.90 LAL .00 LOL 150.18 VL 25.891 GAL 20.35 AZL 92.76 HCA 318.65 SMA 118.04 ECC .42099 INC 2.7598 V1 30.125
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.664 GAP 24.40 AZP 92.07 TAL 144.64 TAP 103.29 RCA 68.35 APO 167.73 V2 35.243
 RC 208.690 GL -6.38 GP -10.59 ZAL 34.75 ZAP 167.10 ETS 237.89 ZAE 128.98 ETE 188.72 ZAC 163.86 ETC 17.77 CLP 172.60

PLANETOCENTRIC CONIC

C3 110.490 VHL 10.511 DLA 14.69 RAL 116.71 RAD 6570.1 VEL 15.226 PTH 2.73 VMP 15.630 OPA 13.79 RAP 102.24 ECC 2.8184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 20 3100.44 -27.24 103.68 14.78 81.95 8 8 0 2500.4 -28.07 95.12
 90.00 23 6 33 4795.34 17.98 206.47 2.86 67.75 24 26 29 4195.3 14.81 199.23
 100.00 8 45 34 2812.64 -28.99 82.79 15.06 82.36 9 32 27 2212.6 -29.74 74.06
 100.00 0 23 56 4558.37 19.61 188.33 2.14 66.98 1 39 54 3958.4 16.33 181.08
 110.00 10 11 28 2543.87 -33.62 63.05 15.73 83.45 10 53 52 1943.9 -34.17 53.85
 110.00 1 14 32 4399.90 23.88 174.25 .09 64.78 2 27 52 3799.9 20.28 166.96

DIFFERENTIAL CORRECTIONS

TDE-2.4571 TRA 9.4716 TC3 -.5311 BAU .7845
 RDE .4616 RRA .3534 RC3 -.0035 FAU .00064
 FDE -.5520 FRA 2.0610 FC3 -.0050 BSP 18917
 BDE 2.5001 BRA 9.4782 BC3 .5311 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 5614.8 SGR 321.0 SG3 103.7
 RRT .4073 RRF .4042 RTF .9817
 SGB 5623.9 R23 .0035 R13 .9817
 SG1 5616.3 SG2 293.1 THA 1.34

ORBIT DETERMINATION ACCURACY

ST 2087.7 SR 258.6 SS 621.6
 CRT -.4470 CRS .4611 CST -.9998
 LSA 2181.4 MSA 231.1 SSA 9.1
 EL1 2091.0 EL2 231.0 ALF 176.79

LAUNCH DATE FEB 19 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 616.533

RL 147.90 LAL .00 LOL 150.18 VL 25.863 GAL 22.39 AZL 93.21 HCA 321.88 SMA 117.89 ECC .44773 INC 3.2119 V1 30.125
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.649 GAP 26.15 AZP 92.53 TAL 144.10 TAP 105.98 RCA 65.11 APO 170.67 V2 35.248
 RC 210.244 GL -6.73 GP -10.46 ZAL 33.97 ZAP 166.41 ETS 232.85 ZAE 128.48 ETE 188.47 ZAC 162.00 ETC 16.98 CLP 171.28

PLANETOCENTRIC CONIC

C3 130.715 VHL 11.433 DLA 14.19 RAL 117.51 RAD 6570.4 VEL 15.876 PTH 2.81 VMP 16.696 OPA 13.86 RAP 104.19 ECC 3.1512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 23 58 3116.46 -27.08 104.83 17.91 81.39 8 15 55 2516.5 -27.99 96.28
 90.00 23 5 17 4846.30 19.27 209.66 5.94 68.84 24 26 4 4246.3 16.22 202.31
 100.00 8 52 51 2829.79 -28.83 84.04 18.21 81.72 9 40 1 2229.8 -29.67 75.33
 100.00 0 23 1 4608.20 20.91 191.46 5.25 68.14 1 39 49 4008.2 17.76 184.09
 110.00 10 18 0 2563.37 -33.46 64.55 18.95 82.57 11 0 44 1963.4 -34.13 55.37
 110.00 1 14 21 4447.39 25.22 177.29 3.28 66.12 2 28 29 3847.4 21.78 169.83

DIFFERENTIAL CORRECTIONS

TDE-2.7447 TRA10.3189 TC3 -.3744 BAU .6542
 RDE .4820 RRA .3399 RC3 -.0004 FAU-.00159
 FDE -.5920 FRA 2.1851 FC3 .0105 BSP 18739
 BDE 2.7867 BRA10.3245 BC3 .3744 FSP -340

MID-COURSE EXECUTION ACCURACY

SGT 5574.6 SGR 298.7 SG3 100.9
 RRT .3638 RRF .3633 RTF .9848
 SGB 5582.6 R23 .0045 R13 .9848
 SG1 5575.7 SG2 278.2 THA 1.12

ORBIT DETERMINATION ACCURACY

ST 2110.3 SR 247.2 SS 649.7
 CRT -.4752 CRS .4832 CST -.9999
 LSA 2211.2 MSA 217.2 SSA 8.5
 EL1 2113.6 EL2 217.2 ALF 176.78

LAUNCH DATE FEB 20 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 1 1969

HELIOCENTRIC CONIC

DISTANCE 186.827

RL 147.93 LAL .00 LOL 151.19 VL 27.066 GAL -8.24 AZL 88.72 MCA 83.29 SMA 125.00 ECC .23134 INC 1.2773 V1 30.119
 RP 108.38 LAP 1.27 LOP 234.47 VP 37.249 GAP -11.01 AZP 89.85 TAL 210.06 TAP 293.35 RCA 96.08 APO 153.92 V2 34.967
 RC 52.697 GL 6.30 GP 15.66 ZAL 141.46 ZAP 19.52 ETS 310.68 ZAE 147.07 ETE 16.96 ZAC 128.23 ETC 149.83 CLP -11.81

PLANETOCENTRIC CONIC

C3 29.600 VHL 5.441 DLA 9.47 RAL 6.02 RAD 6568.2 VEL 12.287 PTH 2.21 VHP 7.793 DPA 28.43 RAP 34.69 ECC 1.4871
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 2 2608.50 -26.77 68.01 237.44 99.59 1 18 31 2008.5 -25.17 59.70
 90.00 14 56 54 4656.44 14.21 198.02 232.07 65.24 16 14 31 4056.4 10.75 191.05
 100.00 2 1 1 2331.17 -28.06 47.35 237.18 100.75 2 39 53 1731.2 -26.29 39.00
 100.00 16 13 36 4409.01 15.39 179.25 231.49 64.05 17 27 5 3809.0 11.78 172.32
 110.00 3 19 50 2084.53 -31.51 27.75 236.31 104.00 3 54 35 1484.5 -29.27 19.26
 110.00 17 11 16 4228.41 18.52 163.84 229.78 60.74 18 21 45 3628.4 14.48 157.05

DIFFERENTIAL CORRECTIONS

TDE -.1965 TRA -.3091 TC3 .4747 BAU .1997
 RDE -.3415 RRA .2011 RC3 .1717 FAU .04231
 FDE -.1073 FRA -.2847 FC3-1.2373 BSP 1847
 BDE .3940 BRA .3688 BC3 .5048 FSP -305

MID-COURSE EXECUTION ACCURACY

SGT 646.9 SGR 458.6 SG3 119.7
 RRT .3371 RRF -.4348 RTF -.6381
 SGB 793.0 R23 -.0747 R13 -.6753
 SG1 677.3 SG2 412.4 THA 21.93

ORBIT DETERMINATION ACCURACY

ST 229.9 SR 365.4 SS 101.5
 CRT .8109 CRS -.6272 CST -.9173
 LSA 421.9 MSA 133.1 SSA 30.6
 EL1 415.1 EL2 118.4 ALF 60.32

LAUNCH DATE FEB 20 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 193.589

RL 147.93 LAL .00 LOL 151.19 VL 27.230 GAL -8.20 AZL 88.91 MCA 86.48 SMA 126.06 ECC .22326 INC 1.0933 V1 30.119
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.356 GAP -10.12 AZP 89.93 TAL 211.52 TAP 298.00 RCA 97.92 APO 154.21 V2 34.954
 RC 54.398 GL 5.53 GP 16.70 ZAL 142.99 ZAP 22.01 ETS 315.00 ZAE 146.35 ETE 19.07 ZAC 128.02 ETC 148.85 CLP -14.54

PLANETOCENTRIC CONIC

C3 28.455 VHL 5.334 DLA 8.19 RAL 4.99 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 7.324 DPA 29.57 RAP 34.70 ECC 1.4683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 41 4 2557.32 -26.14 64.39 235.12 101.29 1 23 41 1957.3 -24.32 56.20
 90.00 14 42 42 4687.90 15.09 199.91 230.52 65.75 16 0 50 4087.9 11.69 192.88
 100.00 2 6 22 2282.19 -27.39 43.86 234.83 102.47 2 44 24 1682.2 -25.40 35.63
 100.00 16 0 5 4438.26 16.25 180.99 229.97 64.56 17 14 3 3838.3 12.69 174.01
 110.00 3 23 39 2040.35 -30.74 24.54 233.87 105.75 3 57 39 1440.3 -28.27 16.21
 110.00 16 59 17 4252.81 19.32 165.28 228.32 61.24 18 10 10 3652.8 15.34 158.43

DIFFERENTIAL CORRECTIONS

TDE -.1832 TRA -.2938 TC3 .5063 BAU .2082
 RDE -.3276 RRA .2101 RC3 .2082 FAU .04640
 FDE -.1553 FRA -.3415 FC3-1.4118 BSP 1921
 BDE .3754 BRA .3612 BC3 .5474 FSP -350

MID-COURSE EXECUTION ACCURACY

SGT 657.3 SGR 474.5 SG3 134.8
 RRT .3735 RRF -.4867 RTF -.6461
 SGB 810.7 R23 -.0880 R13 -.6926
 SG1 696.0 SG2 415.7 THA 24.19

ORBIT DETERMINATION ACCURACY

ST 219.3 SR 358.6 SS 130.1
 CRT .7985 CRS -.6895 CST -.9477
 LSA 416.9 MSA 137.1 SSA 32.2
 EL1 403.6 EL2 117.3 ALF 61.32

LAUNCH DATE FEB 20 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 200.334

RL 147.93 LAL .00 LOL 151.19 VL 27.376 GAL -8.17 AZL 89.09 MCA 89.66 SMA 127.02 ECC .21622 INC .9108 V1 30.119
 RP 108.45 LAP .91 LOP 240.85 VP 37.451 GAP -9.27 AZP 89.99 TAL 212.92 TAP 302.58 RCA 99.56 APO 154.49 V2 34.942
 RC 56.186 GL 4.71 GP 17.86 ZAL 144.41 ZAP 24.73 ETS 318.59 ZAE 145.82 ETE 21.41 ZAC 127.63 ETC 147.91 CLP -17.40

PLANETOCENTRIC CONIC

C3 27.505 VHL 5.245 DLA 6.91 RAL 4.09 RAD 6568.1 VEL 12.202 PTH 2.19 VHP 6.887 DPA 30.75 RAP 34.52 ECC 1.4527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 26 2507.85 -25.44 60.94 233.07 102.88 1 29 14 1907.9 -23.41 52.86
 90.00 14 29 7 4720.43 15.99 201.87 229.22 66.32 15 47 48 4120.4 12.66 194.78
 100.00 2 12 5 2234.85 -26.65 40.54 232.74 104.07 2 49 20 1634.9 -24.45 32.43
 100.00 15 47 10 4468.67 17.13 182.82 228.69 65.12 17 1 39 3868.7 13.64 175.78
 110.00 3 27 52 1997.68 -29.91 21.49 231.70 107.38 4 1 10 1397.7 -27.24 13.32
 110.00 16 47 52 4278.61 20.16 166.80 227.09 61.79 17 59 11 3678.6 16.23 159.88

DIFFERENTIAL CORRECTIONS

TDE -.1696 TRA -.2809 TC3 .5321 BAU .2161
 RDE -.3125 RRA .2204 RC3 .2496 FAU .05094
 FDE -.2121 FRA -.4036 FC3-1.6034 BSP 1989
 BDE .3556 BRA .3570 BC3 .5878 FSP -402

MID-COURSE EXECUTION ACCURACY

SGT 664.4 SGR 493.9 SG3 151.6
 RRT .4096 RRF -.5410 RTF -.6505
 SGB 827.9 R23 -.1030 R13 -.7093
 SG1 713.8 SG2 419.4 THA 26.84

ORBIT DETERMINATION ACCURACY

ST 207.9 SR 349.2 SS 161.8
 CRT .7804 CRS -.7266 CST -.9629
 LSA 412.3 MSA 142.2 SSA 33.5
 EL1 389.3 EL2 116.6 ALF 62.39

LAUNCH DATE FEB 20 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 207.057

RL 147.93 LAL .00 LOL 151.19 VL 27.505 GAL -8.14 AZL 89.27 MCA 92.85 SMA 127.89 ECC .21010 INC .7285 V1 30.119
 RP 108.49 LAP .73 LOP 244.03 VP 37.534 GAP -8.46 AZP 90.04 TAL 214.25 TAP 307.09 RCA 101.02 APO 154.75 V2 34.929
 RC 58.051 GL 3.84 GP 19.12 ZAL 145.71 ZAP 27.68 ETS 321.62 ZAE 145.44 ETE 24.04 ZAC 127.04 ETC 147.01 CLP -20.41

PLANETOCENTRIC CONIC

C3 26.716 VHL 5.169 DLA 5.62 RAL 3.32 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 6.483 DPA 31.99 RAP 34.13 ECC 1.4397
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 10 2460.04 -24.67 57.65 231.26 104.36 1 35 10 1860.0 -22.45 49.68
 90.00 14 16 13 4753.77 16.89 203.90 228.16 66.93 15 35 27 4153.8 13.63 196.75
 100.00 2 18 10 2189.10 -25.85 37.37 230.91 105.55 2 54 40 1589.1 -23.47 29.39
 100.00 15 34 54 4499.94 18.02 184.72 227.64 65.74 16 49 54 3899.9 14.59 177.61
 110.00 3 32 31 1956.45 -29.03 18.60 229.80 108.89 4 5 7 1356.5 -26.18 10.58
 110.00 16 37 4 4305.35 21.01 168.41 226.10 62.40 17 48 49 3705.4 17.15 161.41

DIFFERENTIAL CORRECTIONS

TDE -.1549 TRA -.2691 TC3 .5530 BAU .2242
 RDE -.2954 RRA .2323 RC3 .2968 FAU .05601
 FDE -.2798 FRA -.4724 FC3-1.8151 BSP 2087
 BDE .3336 BRA .3555 BC3 .6276 FSP -462

MID-COURSE EXECUTION ACCURACY

SGT 668.0 SGR 518.0 SG3 170.5
 RRT .4452 RRF -.5970 RTF -.6537
 SGB 845.3 R23 -.1168 R13 -.7283
 SG1 731.5 SG2 423.5 THA 30.00

ORBIT DETERMINATION ACCURACY

ST 194.6 SR 336.7 SS 197.5
 CRT .7542 CRS -.7481 CST -.9692
 LSA 408.8 MSA 148.1 SSA 34.4
 EL1 371.2 EL2 115.9 ALF 63.68

LAUNCH DATE FEB 20 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 213.757

RL 147.93 LAL .00 LOL 151.19 VL 27.618 GAL -8.12 AZL 89.45 MCA 96.03 SMA 128.66 ECC .20480 INC .5454 V1 30.119
 RP 108.53 LAP .54 LOP 247.21 VP 37.605 GAP -7.69 AZP 90.06 TAL 215.48 TAP 311.51 RCA 102.31 APO 155.01 V2 34.917
 RC 59.985 GL 2.92 GP 20.51 ZAL 146.88 ZAP 30.86 ETS 324.25 ZAE 145.21 ETE 27.00 ZAC 126.23 ETC 146.19 CLP -23.57

PLANETOCENTRIC CONIC

C3 26.056 VHL 5.105 DLA 4.35 RAL 2.68 RAD 6568.1 VEL 12.142 PTH 2.18 VHP 6.111 DPA 33.27 RAP 33.49 ECC 1.4288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 17 2413.75 -23.85 54.51 229.71 105.73 1 41 30 1813.8 -21.46 46.65
 90.00 14 4 1 4787.67 17.79 205.99 227.33 67.60 15 23 48 4187.7 14.60 198.77
 100.00 2 24 40 2144.81 -25.01 34.35 229.33 106.93 3 0 24 1544.8 -22.45 26.49
 100.00 15 23 19 4531.85 18.90 186.68 226.83 66.40 16 38 51 3931.8 15.55 179.49
 110.00 3 37 35 1916.58 -28.12 15.86 228.16 110.28 4 9 32 1316.6 -25.10 7.98
 110.00 16 26 53 4332.84 21.87 170.08 225.34 63.05 17 39 6 3732.8 18.08 163.00

DIFFERENTIAL CORRECTIONS

TDE -.1423 TRA -.2623 TC3 .5634 BAU .2310
 RDE -.2763 RRA .2455 RC3 .3496 FAU .06147
 FDE -.3569 FRA -.5442 FC3-2.0425 BSP 2145
 BDE .3108 BRA .3592 BC3 .6630 FSP -525

MID-COURSE EXECUTION ACCURACY

SGT 665.9 SGR 547.6 SG3 190.9
 RRT .4750 RRF -.6521 RTF -.6485
 SGB 862.2 R23 -.1329 R13 -.7455
 SG1 747.8 SG2 429.1 THA 33.75

ORBIT DETERMINATION ACCURACY

ST 183.5 SR 321.2 SS 235.0
 CRT .7193 CRS -.7577 CST -.9696
 LSA 408.7 MSA 154.4 SSA 34.9
 EL1 351.1 EL2 116.6 ALF 64.68

LAUNCH DATE FEB 20 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 220.431

RL 147.93 LAL .00 LOL 151.19 VL 27.716 GAL -8.10 AZL 89.64 MCA 99.21 SMA 129.34 ECC .20023 INC .3600 V1 30.119
 RP 108.57 LAP .36 LOP 250.39 VP 37.667 GAP -6.96 AZP 90.06 TAL 216.61 TAP 315.82 RCA 103.44 APO 155.24 V2 34.906
 RC 61.981 GL 1.96 GP 22.03 ZAL 147.91 ZAP 34.25 ETS 326.58 ZAE 145.08 ETE 30.36 ZAC 125.19 ETC 145.47 CLP -26.92

PLANETOCENTRIC CONIC

C3 25.503 VHL 5.050 DLA 3.08 RAL 2.17 RAD 6568.0 VEL 12.119 PTH 2.17 VHP 5.771 DPA 34.60 RAP 32.59 ECC 1.4197
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 47 2368.80 -22.99 51.49 228.39 107.01 1 48 15 1768.8 -20.44 43.75
 90.00 13 52 28 4822.02 18.66 208.13 226.72 68.31 15 12 50 4222.0 15.56 200.83
 100.00 2 31 33 2101.80 -24.13 31.46 227.99 108.20 3 6 35 1501.8 -21.41 23.72
 100.00 15 12 23 4564.25 19.77 188.70 226.24 67.11 16 28 27 3964.3 16.50 181.43
 110.00 3 43 6 1877.89 -27.18 13.24 226.76 111.57 4 14 24 1277.9 -24.01 5.51
 110.00 16 17 20 4360.92 22.73 171.81 224.79 63.75 17 30 1 3760.9 19.01 164.65

DIFFERENTIAL CORRECTIONS

TDE -.1308 TRA -.2591 TC3 .5642 BAU .2376
 RDE -.2545 RRA .2600 RC3 .4089 FAU .06737
 FDE -.4457 FRA -.6194 FC3-2.2869 BSP 2202
 BDE .2861 BRA .3671 BC3 .6968 FSP -595

MID-COURSE EXECUTION ACCURACY

SGT 658.4 SGR 584.1 SG3 213.2
 RRT .4973 RRF -.7050 RTF -.6367
 SGB 880.1 R23 -.1470 R13 -.7643
 SG1 764.2 SG2 436.6 THA 38.22

ORBIT DETERMINATION ACCURACY

ST 173.5 SR 302.2 SS 275.4
 CRT .6715 CRS -.7572 CST -.9651
 LSA 412.7 MSA 160.4 SSA 35.0
 EL1 327.7 EL2 118.6 ALF 65.51

LAUNCH DATE FEB 20 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 227.078

RL 147.93 LAL .00 LOL 151.19 VL 27.801 GAL -8.08 AZL 89.83 MCA 102.38 SMA 129.94 ECC .19629 INC .1715 V1 30.119
 RP 108.60 LAP .17 LOP 253.57 VP 37.719 GAP -6.26 AZP 90.04 TAL 217.62 TAP 320.01 RCA 104.43 APO 155.45 V2 34.894
 RC 64.032 GL .94 GP 23.67 ZAL 148.80 ZAP 37.87 ETS 328.74 ZAE 145.01 ETE 34.17 ZAC 123.92 ETC 144.87 CLP -30.46

PLANETOCENTRIC CONIC

C3 25.038 VHL 5.004 DLA 1.81 RAL 1.80 RAD 6568.0 VEL 12.100 PTH 2.17 VHP 5.462 DPA 35.96 RAP 31.39 ECC 1.4121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 42 2324.95 -22.08 48.60 227.29 108.19 1 55 27 1724.9 -19.39 40.96
 90.00 13 41 34 4856.78 19.52 210.32 226.32 69.07 15 2 31 4256.8 16.51 202.94
 100.00 2 38 53 2059.85 -23.21 28.69 226.88 109.39 3 13 13 1459.9 -20.35 21.06
 100.00 15 2 4 4597.11 20.63 190.76 225.86 67.87 16 18 41 3997.1 17.44 183.41
 110.00 3 49 4 1840.20 -26.22 10.74 225.60 112.77 4 19 44 1240.2 -22.90 3.15
 110.00 16 8 23 4389.52 23.58 173.60 224.45 64.50 17 21 32 3789.5 19.95 166.34

DIFFERENTIAL CORRECTIONS

TDE -.1195 TRA -.2588 TC3 .5561 BAU .2450
 RDE -.2289 RRA .2763 RC3 .4757 FAU .07371
 FDE -.5486 FRA -.6981 FC3-2.5485 BSP 2298
 BDE .2582 BRA .3785 BC3 .7318 FSP -675

MID-COURSE EXECUTION ACCURACY

SGT 645.3 SGR 628.9 SG3 237.2
 RRT .5101 RRF -.7544 RTF -.6188
 SGB 901.0 R23 -.1540 R13 -.7870
 SG1 783.1 SG2 445.7 THA 43.56

ORBIT DETERMINATION ACCURACY

ST 164.1 SR 279.1 SS 319.4
 CRT .6041 CRS -.7452 CST -.9549
 LSA 422.4 MSA 165.0 SSA 34.9
 EL1 300.1 EL2 121.6 ALF 66.33

LAUNCH DATE FEB 20 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 233.696

RL 147.93 LAL .00 LOL 151.19 VL 27.874 GAL -8.05 AZL 90.02 MCA 105.56 SMA 130.46 ECC .19289 INC .0198 V1 30.119
 RP 108.64 LAP -.02 LOP 256.74 VP 37.762 GAP -5.59 AZP 90.06 TAL 218.51 TAP 324.07 RCA 105.29 APO 155.62 V2 34.883
 RC 66.131 GL -.12 GP 25.45 ZAL 149.53 ZAP 41.70 ETS 330.79 ZAE 144.96 ETE 38.47 ZAC 122.40 ETC 144.44 CLP -34.22

PLANETOCENTRIC CONIC

C3 24.642 VHL 4.964 DLA .55 RAL 1.56 RAD 6568.0 VEL 12.084 PTH 2.16 VHP 5.187 DPA 37.35 RAP 29.86 ECC 1.4056
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 6 2281.91 -21.14 45.79 226.41 109.29 2 3 8 1681.9 -18.32 38.26
 90.00 13 31 15 4891.98 20.36 212.56 226.12 69.89 14 52 47 4292.0 17.44 205.10
 100.00 2 46 42 2018.71 -22.25 26.01 225.98 110.49 3 20 21 1418.7 -19.26 18.49
 100.00 14 52 21 4630.42 21.47 192.88 225.68 68.68 16 9 31 4030.4 18.38 185.44
 110.00 3 55 32 1803.27 -25.22 8.33 224.66 113.88 4 25 35 1203.3 -21.78 .87
 110.00 16 0 0 4418.62 24.42 175.44 224.31 65.30 17 13 39 3818.6 20.88 168.08

DIFFERENTIAL CORRECTIONS

TDE -.1125 TRA -.2647 TC3 .5332 BAU .2521
 RDE -.1999 RRA .2934 RC3 .5491 FAU .08019
 FDE -.6616 FRA -.7743 FC3-2.8173 BSP 2368
 BDE .2294 BRA .3951 BC3 .7654 FSP -755

MID-COURSE EXECUTION ACCURACY

SGT 624.8 SGR 682.0 SG3 262.1
 RRT .5048 RRF -.7980 RTF -.5847
 SGB 924.9 R23 -.1547 R13 -.8107
 SG1 803.8 SG2 457.7 THA 49.93

ORBIT DETERMINATION ACCURACY

ST 159.7 SR 252.6 SS 364.6
 CRT .5182 CRS -.7180 CST -.9418
 LSA 439.3 MSA 167.6 SSA 34.5
 EL1 270.2 EL2 127.7 ALF 66.25

LAUNCH DATE FEB 20 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 240.284

RL 147.93 LAL .00 LOL 151.19 VL 27.936 GAL -8.02 AZL 90.22 MCA 108.73 SMA 130.90 ECC .18997 INC .2197 V1 30.119
 RP 108.67 LAP -.21 LOP 259.92 VP 37.798 GAP -4.96 AZP 89.93 TAL 219.27 TAP 328.00 RCA 106.03 APO 155.77 V2 34.873
 RC 68.274 GL -1.24 GP 27.36 ZAL 150.11 ZAP 45.75 ETS 332.82 ZAE 144.86 ETE 43.28 ZAC 120.64 ETC 144.18 CLP -38.21

PLANETOCENTRIC CONIC

C3 24.305 VHL 4.930 DLA -.72 RAL 1.45 RAD 6568.0 VEL 12.070 PTH 2.16 VHP 4.944 DPA 38.76 RAP 27.98 ECC 1.4000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 2 2239.38 -20.16 43.06 225.74 110.31 2 11 22 1639.4 -17.22 35.62
 90.00 13 21 28 4927.74 21.18 214.86 226.12 70.76 14 43 36 4327.7 18.37 207.32
 100.00 2 55 3 1978.06 -21.26 23.39 225.29 111.52 3 28 1 1378.1 -18.15 15.98
 100.00 14 43 9 4664.29 22.29 195.06 225.69 69.55 16 0 53 4064.3 19.30 187.54
 110.00 4 2 32 1766.83 -24.19 5.99 223.93 114.92 4 31 59 1166.8 -20.63 358.66
 110.00 15 52 9 4448.29 25.25 177.35 224.37 66.15 17 6 18 3848.3 21.81 169.88

DIFFERENTIAL CORRECTIONS

TDE -.1090 TRA -.2761 TC3 .4962 BAU .2605
 RDE -.1666 RRA .3110 RC3 .6297 FAU .08673
 FDE -.7859 FRA -.8456 FC3-3.0894 BSP 2454
 BDE .1991 BRA .4159 BC3 .8017 FSP -838

MID-COURSE EXECUTION ACCURACY

SGT 598.7 SGR 744.1 SG3 287.6
 RRT .4765 RRF -.8357 RTF -.5316
 SGB 955.0 R23 -.1432 R13 -.8372
 SG1 830.5 SG2 471.6 THA 57.35

ORBIT DETERMINATION ACCURACY

ST 159.8 SR 222.7 SS 411.8
 CRT .4033 CRS -.6668 CST -.9265
 LSA 464.1 MSA 167.8 SSA 34.0
 EL1 237.3 EL2 137.2 ALF 65.00

LAUNCH DATE FEB 20 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 246.842

RL 147.93 LAL .00 LOL 151.19 VL 27.987 GAL -7.99 AZL 90.43 MCA 111.90 SMA 131.27 ECC .18745 INC .4265 V1 30.119
 RP 108.70 LAP -.40 LOP 263.09 VP 37.827 GAP -4.35 AZP 89.84 TAL 219.90 TAP 331.80 RCA 106.66 APO 155.88 V2 34.862
 RC 70.456 GL -2.41 GP 29.38 ZAL 150.53 ZAP 49.98 ETS 334.89 ZAE 144.65 ETE 48.62 ZAC 118.65 ETC 144.13 CLP -42.44

PLANETOCENTRIC CONIC

C3 24.016 VHL 4.901 DLA -1.99 RAL 1.48 RAD 6568.0 VEL 12.058 PTH 2.16 VHP 4.734 DPA 40.16 RAP 25.74 ECC 1.3952
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 35 2196.99 -19.14 40.37 225.27 111.28 2 20 12 1597.0 -16.08 33.03
 90.00 13 12 8 4964.28 21.98 217.24 226.31 71.69 14 34 52 4364.3 19.28 209.61
 100.00 3 4 0 1937.58 -20.23 20.83 224.80 112.49 3 36 17 1337.6 -17.00 13.52
 100.00 14 34 24 4698.92 23.09 197.32 225.90 70.47 15 52 43 4098.9 20.22 189.70
 110.00 4 10 7 1730.60 -23.14 3.71 223.40 115.89 4 38 58 1130.6 -19.46 356.50
 110.00 15 44 46 4478.66 26.07 179.33 224.63 67.06 16 59 25 3878.7 22.73 171.75

DIFFERENTIAL CORRECTIONS

TDE -.1086 TRA -.2918 TC3 .4460 BAU .2714
 RDE -.1279 RRA .3295 RC3 .7180 FAU .09323
 FDE -.9230 FRA -.9121 FC3-3.3608 BSP 2595
 BDE .1678 BRA .4401 BC3 .8453 FSP -927

MID-COURSE EXECUTION ACCURACY

SGT 569.0 SGR 816.2 SG3 313.4
 RRT .4200 RRF -.8676 RTF -.4549
 SGB 995.0 R23 -.1160 R13 -.8655
 SG1 868.6 SG2 485.2 THA 65.64

ORBIT DETERMINATION ACCURACY

ST 163.7 SR 190.2 SS 462.2
 CRT .2384 CRS -.5687 CST -.9113
 LSA 498.0 MSA 165.7 SSA 33.2
 EL1 200.6 EL2 150.7 ALF 61.15

LAUNCH DATE FEB 20 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 253.368

RL 147.93 LAL .00 LOL 151.19 VL 28.028 GAL -7.96 AZL 90.64 MCA 115.07 SMA 131.57 ECC .18528 INC .6422 V1 30.119
 RP 108.73 LAP -.58 LOP 266.26 VP 37.848 GAP -3.77 AZP 89.73 TAL 220.39 TAP 335.46 RCA 107.20 APO 155.95 V2 34.853
 RC 72.672 GL -3.66 GP 31.51 ZAL 150.78 ZAP 54.39 ETS 337.07 ZAE 144.25 ETE 54.43 ZAC 116.44 ETC 144.31 CLP -46.92

PLANETOCENTRIC CONIC

C3 23.769 VHL 4.875 DLA -3.28 RAL 1.64 RAD 6568.0 VEL 12.048 PTH 2.15 VHP 4.559 DPA 41.53 RAP 23.13 ECC 1.3912
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 49 2154.34 -18.06 37.70 224.99 112.18 2 29 43 1554.3 -14.90 30.46
 90.00 13 3 9 5001.85 22.77 219.72 226.69 72.69 14 26 31 4401.9 20.18 212.00
 100.00 3 13 37 1896.89 -19.15 18.29 224.51 113.40 3 45 14 1296.9 -15.82 11.08
 100.00 14 26 1 4734.54 23.88 199.67 226.30 71.47 15 44 56 4134.5 21.13 191.95
 110.00 4 18 21 1694.25 -22.04 1.46 223.06 116.82 4 46 36 1094.2 -18.26 354.37
 110.00 15 37 47 4509.95 26.88 181.39 225.08 68.04 16 52 57 3909.9 23.66 173.71

DIFFERENTIAL CORRECTIONS

TDE -.1154 TRA -.3146 TC3 .3769 BAU .2843
 RDE -.0844 RRA .3468 RC3 .8114 FAU .09916
 FDE -1.0648 FRA -.9634 FC3-3.6118 BSP 2746
 BDE .1430 BRA .4683 BC3 .8947 FSP -1009

MID-COURSE EXECUTION ACCURACY

SGT 539.0 SGR 895.8 SG3 337.5
 RRT .3168 RRF -.8932 RTF -.3347
 SGB 1045.5 R23 -.0784 R13 -.8914
 SG1 919.1 SG2 498.3 THA 74.57

ORBIT DETERMINATION ACCURACY

ST 175.6 SR 159.4 SS 512.5
 CRT .0037 CRS -.3854 CST -.9028
 LSA 540.1 MSA 161.7 SSA 32.4
 EL1 175.6 EL2 159.4 ALF 1.07

LAUNCH DATE FEB 20 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 259.863

RL 147.93 LAL .00 LOL 151.19 VL 28.061 GAL -7.92 AZL 90.87 MCA 118.24 SMA 131.81 ECC .18341 INC .8692 V1 30.119
 RP 108.76 LAP -.77 LOP 269.42 VP 37.864 GAP -3.21 AZP 89.59 TAL 220.75 TAP 338.99 RCA 107.64 APO 155.99 V2 34.844
 RC 74.919 GL -4.98 GP 33.71 ZAL 150.86 ZAP 58.92 ETS 339.40 ZAE 143.60 ETE 60.61 ZAC 114.04 ETC 144.72 CLP -51.65

PLANETOCENTRIC CONIC

C3 23.560 VHL 4.854 DLA -4.60 RAL 1.93 RAD 6568.0 VEL 12.039 PTH 2.15 VHP 4.418 DPA 42.84 RAP 20.16 ECC 1.3877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 52 2111.00 -16.93 35.03 224.90 113.04 2 40 3 1511.0 -13.66 27.87
 90.00 12 54 25 5040.86 23.53 222.32 227.27 73.78 14 18 26 4440.9 21.09 214.50
 100.00 3 24 3 1855.57 -18.01 15.75 224.41 114.27 3 54 58 1255.6 -14.58 8.63
 100.00 14 17 55 4771.53 24.66 202.14 226.89 72.55 15 37 26 4171.5 22.04 194.32
 110.00 4 27 20 1657.43 -20.89 359.22 222.92 117.69 4 54 57 1057.4 -17.02 352.24
 110.00 15 31 7 4542.44 27.69 183.57 225.72 69.11 16 46 49 3942.4 24.60 175.77

DIFFERENTIAL CORRECTIONS

TDE -.1292 TRA -.3431 TC3 .2903 BAU .3005
 RDE -.0356 RRA .3623 RC3 .9087 FAU .10428
 FDE -1.2095 FRA -.9970 FC3-3.8318 BSP 2943
 BDE .1340 BRA .4990 BC3 .9539 FSP -1082

MID-COURSE EXECUTION ACCURACY

SGT 517.4 SGR 981.8 SG3 359.0
 RRT .1588 RRF -.9137 RTF -.1631
 SGB 1109.8 R23 -.0355 R13 -.9132
 SG1 986.5 SG2 508.4 THA 83.48

ORBIT DETERMINATION ACCURACY

ST 195.4 SR 138.0 SS 563.1
 CRT -.3359 CRS -.0562 CST -.9018
 LSA 590.6 MSA 156.6 SSA 31.4
 EL1 204.4 EL2 124.2 ALF 158.30

LAUNCH DATE FEB 28 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 266.326

RL 147.93 LAL .00 LOL 151.19 VL 28.086 GAL -7.87 AZL 91.11 HCA 121.40 SMA 132.00 ECC .18179 INC 1.1100 V1 30.119
 RP 108.78 LAP -.95 LOP 272.59 VP 37.875 GAP -2.68 AZP 89.42 TAL 220.99 TAP 342.39 RCA 108.00 APO 155.99 V2 34.835
 RC 77.194 GL -6.40 GP 35.97 ZAL 150.76 ZAP 63.54 ETS 341.94 ZAE 142.64 ETE 67.05 ZAC 111.50 ETC 145.37 CLP -56.60

PLANETOCENTRIC CONIC

C3 23.387 VHL 4.836 DLA -5.96 RAL 2.35 RAD 6567.9 VEL 12.032 PTH 2.15 VHP 4.312 DPA 44.07 RAP 16.86 ECC 1.3849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 52 2066.47 -15.72 32.32 225.01 113.86 2 51 18 1466.5 -12.36 25.25
 90.00 12 45 48 5081.81 24.28 225.09 228.05 74.97 14 10 30 4481.8 21.99 217.17
 100.00 3 35 23 1813.17 -16.80 13.18 224.50 115.09 4 5 36 1213.2 -13.28 6.16
 100.00 14 9 58 4810.34 25.43 204.77 227.69 73.73 15 30 8 4210.3 22.95 196.84
 110.00 4 37 10 1619.75 -19.68 356.97 222.97 118.53 5 4 9 1019.7 -15.72 350.09
 110.00 15 24 41 4576.53 28.50 185.90 226.57 70.27 16 40 57 3976.5 25.54 177.97

DIFFERENTIAL CORRECTIONS

TDE -.1505 TRA -.3759 TC3 .1874 BAU .3210
 RDE .0196 RRA .3756 RC3 1.0093 FAU .10844
 FDE -1.3569 FRA -1.0130 FC3 -4.0143 BSP 3220
 BDE .1517 BRA .5314 BC3 1.0266 FSP -1153

MID-COURSE EXECUTION ACCURACY

SGT 515.0 SGR 1074.2 SG3 377.8
 RRT -.0499 RRF -.9300 RTF .0547
 SGB 1191.2 R23 .0054 R13 -.9300
 SG1 1074.5 SG2 514.1 THA 91.78

ORBIT DETERMINATION ACCURACY

ST 223.3 SR 139.3 SS 615.5
 CRT -.7076 CRS .3882 CST -.9071
 LSA 651.4 MSA 150.9 SSA 30.3
 EL1 247.8 EL2 88.7 ALF 152.33

LAUNCH DATE FEB 20 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 272.759

RL 147.93 LAL .00 LOL 151.19 VL 28.103 GAL -7.81 AZL 91.37 HCA 124.56 SMA 132.12 ECC .18038 INC 1.3675 V1 30.119
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.881 GAP -2.18 AZP 89.22 TAL 221.10 TAP 345.67 RCA 108.29 APO 155.96 V2 34.827
 RC 79.493 GL -7.92 GP 38.25 ZAL 150.47 ZAP 68.19 ETS 344.71 ZAE 141.35 ETE 73.56 ZAC 108.85 ETC 146.24 CLP -61.76

PLANETOCENTRIC CONIC

C3 23.253 VHL 4.822 DLA -7.37 RAL 2.92 RAD 6567.9 VEL 12.026 PTH 2.15 VHP 4.242 DPA 45.21 RAP 13.30 ECC 1.3827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 0 2020.16 -14.43 29.53 225.33 114.63 3 3 40 1420.2 -10.98 22.55
 90.00 12 37 10 5125.31 25.02 228.06 229.04 76.29 14 2 35 4525.3 22.89 220.04
 100.00 3 47 48 1769.15 -15.51 10.55 224.80 115.88 4 17 17 1169.2 -11.91 3.61
 100.00 14 2 3 4851.55 26.18 207.60 228.71 75.04 15 22 54 4251.5 23.87 199.56
 110.00 4 47 58 1580.77 -18.40 354.67 223.22 119.33 5 14 19 980.8 -14.35 347.90
 110.00 15 18 22 4612.69 29.30 188.41 227.65 71.55 16 35 15 4012.7 26.50 180.34

DIFFERENTIAL CORRECTIONS

TDE -.1830 TRA -.4143 TC3 .0650 BAU .3446
 RDE .0791 RRA .3835 RC3 1.1067 FAU .11096
 FDE -1.4932 FRA -1.0001 FC3 -4.1312 BSP 3523
 BDE .1993 BRA .5646 BC3 1.1086 FSP -1200

MID-COURSE EXECUTION ACCURACY

SGT 545.5 SGR 1165.9 SG3 390.8
 RRT -.2855 RRF -.9425 RTF .2961
 SGB 1287.2 R23 .0404 R13 -.9420
 SG1 1178.7 SG2 517.1 THA 99.44

ORBIT DETERMINATION ACCURACY

ST 263.5 SR 169.9 SS 665.0
 CRT -.9136 CRS .7142 CST -.9183
 LSA 720.1 MSA 145.3 SSA 29.0
 EL1 307.9 EL2 59.1 ALF 148.19

LAUNCH DATE FEB 20 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 279.160

RL 147.93 LAL .00 LOL 151.19 VL 28.114 GAL -7.75 AZL 91.65 HCA 127.72 SMA 132.20 ECC .17916 INC 1.6453 V1 30.119
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.882 GAP -1.69 AZP 88.99 TAL 221.10 TAP 348.82 RCA 108.52 APO 155.89 V2 34.820
 RC 81.813 GL -9.57 GP 40.53 ZAL 149.99 ZAP 72.79 ETS 347.72 ZAE 139.71 ETE 79.99 ZAC 106.15 ETC 147.33 CLP -67.10

PLANETOCENTRIC CONIC

C3 23.163 VHL 4.813 DLA -8.86 RAL 3.63 RAD 6567.9 VEL 12.023 PTH 2.15 VHP 4.209 DPA 46.25 RAP 9.52 ECC 1.3812
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 44 30 1971.40 -13.02 26.64 225.86 115.37 3 17 21 1371.4 -9.50 19.73
 90.00 12 28 20 5172.18 25.74 231.31 230.27 77.76 13 54 32 4572.2 23.79 223.18
 100.00 4 1 31 1722.91 -14.12 7.82 225.31 116.62 4 30 14 1122.9 -10.43 .97
 100.00 13 54 40 4895.90 26.93 210.68 229.96 76.50 15 15 36 4295.9 24.80 202.53
 110.00 4 59 56 1540.01 -17.02 352.31 223.69 120.10 5 25 36 940.0 -12.89 345.64
 110.00 15 12 5 4651.56 30.11 191.15 228.98 72.99 16 29 36 4051.6 27.48 182.93

DIFFERENTIAL CORRECTIONS

TDE -.2261 TRA -.4549 TC3 -.0721 BAU .3726
 RDE .1451 RRA .3868 RC3 1.2011 FAU .11202
 FDE -1.6235 FRA -.9660 FC3 -4.1868 BSP 3910
 BDE .2686 BRA .5971 BC3 1.2032 FSP -1239

MID-COURSE EXECUTION ACCURACY

SGT 614.5 SGR 1258.4 SG3 399.0
 RRT -.4941 RRF -.9524 RTF .5065
 SGB 1400.4 R23 .0679 R13 -.9509
 SG1 1301.7 SG2 516.4 THA 106.18

ORBIT DETERMINATION ACCURACY

ST 315.4 SR 224.9 SS 715.6
 CRT -.9804 CRS .8741 CST -.9311
 LSA 801.1 MSA 140.1 SSA 27.4
 EL1 385.7 EL2 36.2 ALF 144.68

LAUNCH DATE FEB 20 1969

FLIGHT TIME 100.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 285.531

RL 147.93 LAL .00 LOL 151.19 VL 28.119 GAL -7.68 AZL 91.95 HCA 130.88 SMA 132.24 ECC .17809 INC 1.9477 V1 30.119
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.879 GAP -1.23 AZP 88.72 TAL 220.98 TAP 351.86 RCA 108.69 APO 155.79 V2 34.813
 RC 84.153 GL -11.36 GP 42.80 ZAL 149.29 ZAP 77.29 ETS 350.99 ZAE 137.75 ETE 86.20 ZAC 103.45 ETC 148.59 CLP -72.55

PLANETOCENTRIC CONIC

C3 23.127 VHL 4.809 DLA -10.44 RAL 4.49 RAD 6567.9 VEL 12.021 PTH 2.15 VHP 4.213 DPA 47.18 RAP 5.62 ECC 1.3806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 39 1919.38 -11.49 23.59 226.65 116.06 3 32 38 1319.4 -7.89 16.76
 90.00 12 19 5 5223.44 26.43 234.90 231.76 79.44 13 46 8 4623.4 24.70 226.66
 100.00 4 16 48 1673.71 -12.60 4.96 226.08 117.33 4 44 42 1073.7 -8.84 358.19
 100.00 13 45 37 4944.35 27.65 214.10 231.48 78.16 15 8 1 4344.3 25.74 205.82
 110.00 5 13 15 1496.91 -15.53 349.86 224.40 120.84 5 38 12 896.9 -11.33 343.28
 110.00 15 5 39 4693.91 30.91 194.18 230.58 74.62 16 23 53 4093.9 28.49 185.82

DIFFERENTIAL CORRECTIONS

TDE -.2831 TRA -.4976 TC3 -.2243 BAU .4027
 RDE .2144 RRA .3813 RC3 1.2831 FAU .11097
 FDE -1.7321 FRA -.9002 FC3 -4.1541 BSP 4314
 BDE .3551 BRA .6269 BC3 1.3026 FSP -1246

MID-COURSE EXECUTION ACCURACY

SGT 723.7 SGR 1342.3 SG3 399.8
 RRT -.6495 RRF -.9599 RTF .6616
 SGB 1524.9 R23 .0901 R13 -.9569
 SG1 1435.5 SG2 514.6 THA 112.32

ORBIT DETERMINATION ACCURACY

ST 382.8 SR 293.0 SS 761.7
 CRT -.9940 CRS .9409 CST -.9437
 LSA 890.8 MSA 135.8 SSA 25.5
 EL1 481.3 EL2 25.6 ALF 142.62

LAUNCH DATE FEB 20 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 291.872

RL 147.93 LAL .00 LOL 151.19 VL 28.117 GAL -7.61 AZL 92.28 MCA 134.04 SMA 132.23 ECC .17715 INC 2.2803 V1 30.119
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.872 GAP -.78 AZP 88.41 TAL 220.75 TAP 354.79 RCA 108.80 APO 155.65 V2 34.807
 RC 86.508 GL -13.32 GP 45.03 ZAL 148.36 ZAP 81.60 ETS 354.51 ZAE 135.50 ETE 92.08 ZAC 100.80 ETC 149.99 CLP -78.07

PLANETOCENTRIC CONIC

C3 23.161 VHL 4.813 DLA -12.14 RAL 5.52 RAD 6567.9 VEL 12.022 PTH 2.15 VHP 4.255 DPA 48.04 RAP 1.66 ECC 1.3812
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 51 1863.08 -9.78 20.33 227.72 116.71 3 49 54 1263.1 -6.12 13.57
 90.00 12 9 7 5280.45 27.07 238.95 233.54 81.37 13 37 7 4680.5 25.60 230.59
 100.00 4 34 0 1620.66 -10.92 1.91 227.12 118.00 5 1 0 1020.7 -7.09 355.21
 100.00 13 36 40 4998.11 28.34 217.95 233.31 80.07 14 59 58 4398.1 26.68 209.54
 110.00 5 28 14 1450.79 -13.91 347.28 225.37 121.55 5 52 25 850.8 -9.63 340.78
 110.00 14 58 55 4740.74 31.71 197.60 232.50 76.50 16 17 55 4140.7 29.53 189.07

DIFFERENTIAL CORRECTIONS

TDE -.3546 TRA -.5391 TC3 -.3854 BAU .4360
 RDE .2898 RRA .3688 RC3 1.3542 FAU .10833
 FDE-1.8269 FRA -.8154 FC3-4.0493 BSP 4790
 BDE .4580 BRA .6531 BC3 1.4080 FSP -1243

MID-COURSE EXECUTION ACCURACY

SGT 864.2 SGR 1421.2 SG3 395.1
 RRT -.7524 RRF -.9659 RTF .7632
 SGB 1663.3 R23 .1069 R13 -.9616
 SG1 1582.8 SG2 511.1 THA 117.72

ORBIT DETERMINATION ACCURACY

ST 466.0 SR 372.5 SS 808.1
 CRT -.9946 CRS .9711 CST -.9549
 LSA 995.4 MSA 132.7 SSA 23.4
 EL1 595.8 EL2 30.1 ALF 141.40

LAUNCH DATE FEB 20 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 298.184

RL 147.93 LAL .00 LOL 151.19 VL 28.111 GAL -7.52 AZL 92.65 MCA 137.19 SMA 132.18 ECC .17633 INC 2.6503 V1 30.119
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.863 GAP -.36 AZP 88.06 TAL 220.42 TAP 357.61 RCA 108.88 APO 155.49 V2 34.802
 RC 88.877 GL -15.49 GP 47.23 ZAL 147.17 ZAP 85.66 ETS 358.26 ZAE 133.00 ETE 97.55 ZAC 98.24 ETC 151.48 CLP -83.60

PLANETOCENTRIC CONIC

C3 23.288 VHL 4.826 DLA -13.99 RAL 6.74 RAD 6567.9 VEL 12.028 PTH 2.15 VHP 4.337 DPA 48.85 RAP 357.70 ECC 1.3833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 39 39 1801.17 -7.87 16.79 229.13 117.29 4 9 40 1201.2 -4.15 10.09
 90.00 11 58 3 5345.02 27.65 243.59 235.67 83.62 13 27 8 4745.0 26.48 235.12
 100.00 4 53 35 1562.61 -9.05 358.62 228.50 118.61 5 19 38 962.6 -5.16 351.99
 100.00 13 26 47 5058.81 28.97 222.35 235.49 82.31 14 51 6 4458.8 27.61 213.81
 110.00 5 45 14 1400.86 -12.11 344.52 226.67 122.21 6 8 35 800.9 -7.77 338.11
 110.00 14 51 38 4793.33 32.48 201.51 234.81 78.69 16 11 31 4193.3 30.58 192.80

DIFFERENTIAL CORRECTIONS

TDE -.4433 TRA -.5774 TC3 -.5519 BAU .4697
 RDE .3680 RRA .3451 RC3 1.4042 FAU .10368
 FDE-1.8946 FRA -.7051 FC3-3.8545 BSP 5259
 BDE .5761 BRA .6727 BC3 1.5088 FSP -1208

MID-COURSE EXECUTION ACCURACY

SGT 1029.5 SGR 1485.2 SG3 382.9
 RRT -.8176 RRF -.9705 RTF .8273
 SGB 1807.2 R23 .1214 R13 -.9647
 SG1 1734.4 SG2 507.7 THA 122.69

ORBIT DETERMINATION ACCURACY

ST 567.6 SR 456.7 SS 849.5
 CRT -.9931 CRS .9853 CST -.9641
 LSA 1111.2 MSA 131.0 SSA 21.1
 EL1 727.4 EL2 41.8 ALF 141.22

LAUNCH DATE FEB 20 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 304.466

RL 147.93 LAL .00 LOL 151.19 VL 28.100 GAL -7.43 AZL 93.07 MCA 140.34 SMA 132.10 ECC .17561 INC 3.0669 V1 30.119
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.850 GAP .05 AZP 87.64 TAL 219.99 TAP .33 RCA 108.90 APO 155.30 V2 34.797
 RC 91.256 GL -17.89 GP 49.43 ZAL 145.70 ZAP 89.41 ETS 2.22 ZAE 130.30 ETE 102.58 ZAC 95.79 ETC 153.04 CLP -89.09

PLANETOCENTRIC CONIC

C3 23.541 VHL 4.852 DLA -16.00 RAL 8.17 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 4.462 DPA 49.65 RAP 353.78 ECC 1.3874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 48 1731.81 -5.68 12.87 230.97 117.79 4 32 40 1131.8 -1.92 6.21
 90.00 11 45 17 5419.67 28.09 249.00 238.20 86.30 13 15 37 4819.7 27.29 240.43
 100.00 5 16 15 1498.05 -6.93 355.00 230.29 119.15 5 41 13 898.1 -2.99 348.43
 100.00 13 15 32 5128.66 29.50 227.47 238.08 84.95 14 41 0 4528.7 28.49 218.82
 110.00 6 4 45 1346.11 -10.11 341.55 228.36 122.83 6 27 11 746.1 -5.71 335.22
 110.00 14 43 31 4853.36 33.19 206.05 237.56 81.29 16 4 24 4253.4 31.63 197.17

DIFFERENTIAL CORRECTIONS

TDE -.5512 TRA -.6094 TC3 -.7162 BAU .5035
 RDE .4499 RRA .3102 RC3 1.4305 FAU .09736
 FDE-1.9384 FRA -.5773 FC3-3.5806 BSP 5733
 BDE .7116 BRA .6838 BC3 1.5998 FSP -1149

MID-COURSE EXECUTION ACCURACY

SGT 1211.3 SGR 1534.4 SG3 364.7
 RRT -.8586 RRF -.9742 RTF .8676
 SGB 1954.9 R23 .1343 R13 -.9668
 SG1 1888.7 SG2 504.4 THA 127.23

ORBIT DETERMINATION ACCURACY

ST 688.9 SR 545.1 SS 887.1
 CRT -.9917 CRS .9924 CST -.9714
 LSA 1241.4 MSA 130.8 SSA 18.7
 EL1 876.8 EL2 55.0 ALF 141.70

LAUNCH DATE FEB 20 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 310.721

RL 147.93 LAL .00 LOL 151.19 VL 28.085 GAL -7.33 AZL 93.54 MCA 143.49 SMA 131.99 ECC .17498 INC 3.5426 V1 30.119
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.835 GAP .44 AZP 87.15 TAL 219.47 TAP 2.96 RCA 108.90 APO 155.09 V2 34.793
 RC 93.644 GL -20.58 GP 51.64 ZAL 143.92 ZAP 92.78 ETS 6.39 ZAE 127.42 ETE 107.17 ZAC 93.47 ETC 154.62 CLP -94.48

PLANETOCENTRIC CONIC

C3 23.974 VHL 4.896 DLA -18.23 RAL 9.84 RAD 6568.0 VEL 12.056 PTH 2.15 VHP 4.634 DPA 50.50 RAP 349.90 ECC 1.3946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 28 1652.22 -3.14 8.40 233.36 118.16 5 0 0 1052.2 -.65 1.77
 90.00 11 29 56 5508.19 28.31 255.47 241.19 89.54 13 1 45 4908.2 27.95 246.82
 100.00 5 42 57 1424.79 -4.48 350.94 232.62 119.59 6 6 41 824.8 -.50 344.41
 100.00 13 2 9 5210.84 29.84 233.56 241.15 88.14 14 29 0 4610.8 29.26 224.80
 110.00 6 27 28 1285.28 -7.84 338.29 230.55 123.38 6 48 54 685.3 -3.40 332.02
 110.00 14 34 7 4923.12 33.78 211.41 240.85 84.41 15 56 10 4323.1 32.64 202.36

DIFFERENTIAL CORRECTIONS

TDE -.6821 TRA -.6321 TC3 -.8711 BAU .5385
 RDE .5407 RRA .2678 RC3 1.4365 FAU .09015
 FDE-1.9697 FRA -.4489 FC3-3.2555 BSP 6289
 BDE .8704 BRA .6865 BC3 1.6800 FSP -1093

MID-COURSE EXECUTION ACCURACY

SGT 1404.0 SGR 1577.3 SG3 343.2
 RRT -.8859 RRF -.9775 RTF .8946
 SGB 2111.7 R23 .1443 R13 -.9688
 SG1 2051.5 SG2 500.7 THA 131.25

ORBIT DETERMINATION ACCURACY

ST 832.1 SR 641.8 SS 926.0
 CRT -.9910 CRS .9962 CST -.9774
 LSA 1394.3 MSA 131.8 SSA 16.1
 EL1 1048.6 EL2 68.1 ALF 142.42

LAUNCH DATE FEB 20 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 316.948

RL 147.93 LAL .00 LOL 151.19 VL 28.066 GAL -7.22 AZL 94.09 MCA 146.64 SMA 131.85 ECC .17443 INC 4.0947 VI 30.119
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.818 GAP .82 AZP 86.58 TAL 218.86 TAP 5.50 RCA 108.85 APO 154.85 V2 34.789
 RC 96.038 GL -23.60 GP 53.93 ZAL 141.77 ZAP 95.72 ETS 10.75 ZAE 124.39 ETE 111.36 ZAC 91.29 ETC 156.21 CLP -99.75

PLANETOCENTRIC CONIC

C3 24.663 VHL 4.966 OLA -20.70 RAL 11.80 RAD 6568.0 VEL 12.085 PTH 2.16 VHP 4.861 DPA 51.43 RAP 346.01 ECC 1.4059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 36 1557.61 -.09 3.12 236.49 118.32 5 33 33 957.6 3.69 356.48
 90.00 11 10 25 5616.71 28.12 263.40 244.68 93.51 12 44 2 5016.7 28.31 254.74
 100.00 6 15 15 1339.28 -1.59 346.24 235.65 119.85 6 37 34 739.3 2.39 339.72
 100.00 12 45 27 5310.27 29.83 240.95 244.77 92.03 14 13 57 4710.3 29.79 232.14
 110.00 6 54 24 1216.54 -5.25 334.65 233.38 123.83 7 14 41 616.5 -.77 328.43
 110.00 14 22 46 5005.77 34.14 217.83 244.78 88.20 15 46 12 4405.8 33.51 208.64

DIFFERENTIAL CORRECTIONS

TDE -.8407 TRA -.6416 TC3-1.0076 BAU .5709
 RDE .6353 RRA .2109 RC3 1.4082 FAU .08162
 FDE -1.9739 FRA -.3091 FC3-2.8649 BSP 6793
 BDE 1.0538 BRA .6754 BC3 1.7315 FSP -1009

MID-COURSE EXECUTION ACCURACY

SGT 1602.7 SGR 1600.4 SG3 316.6
 RRT -.9032 RRF -.9802 RTF .9124
 SGB 2264.9 R23 .1544 R13 -.9700
 SG1 2209.4 SG2 498.4 THA 135.05

ORBIT DETERMINATION ACCURACY

ST 999.1 SR 738.3 SS 958.3
 CRT -.9907 CRS .9983 CST -.9820
 LSA 1563.1 MSA 134.2 SSA 13.7
 EL1 1239.6 EL2 81.0 ALF 143.61

LAUNCH DATE FEB 20 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 323.147

RL 147.93 LAL .00 LOL 151.19 VL 28.044 GAL -7.10 AZL 94.75 MCA 149.78 SMA 131.69 ECC .17395 INC 4.7471 VI 30.119
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.799 GAP 1.18 AZP 85.90 TAL 218.17 TAP 7.96 RCA 108.78 APO 154.60 V2 34.787
 RC 98.436 GL -27.00 GP 56.35 ZAL 139.21 ZAP 98.20 ETS 15.32 ZAE 121.20 ETE 115.18 ZAC 89.21 ETC 157.82 CLP -104.91

PLANETOCENTRIC CONIC

C3 25.732 VHL 5.073 OLA -23.45 RAL 14.10 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 5.154 DPA 52.48 RAP 342.03 ECC 1.4235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 4 1437.82 3.77 356.43 240.70 118.09 6 17 1 837.8 7.50 349.73
 90.00 10 43 18 5757.40 27.11 273.56 248.63 98.50 12 19 15 5157.4 28.01 265.01
 100.00 6 55 57 1234.81 1.95 340.51 239.69 119.83 7 16 32 634.8 5.91 333.95
 100.00 12 23 6 5435.64 29.17 250.20 248.95 96.85 13 53 41 4835.6 29.81 241.46
 110.00 7 27 7 1137.11 -2.23 330.49 237.08 124.12 7 46 4 537.1 2.26 324.29
 110.00 14 8 26 5106.10 34.08 225.66 249.44 92.83 15 33 32 4506.1 34.10 216.42

DIFFERENTIAL CORRECTIONS

TDE -1.0352 TRA -.6341 TC3-1.1156 BAU .6019
 RDE .7392 RRA .1425 RC3 1.3480 FAU .07249
 FDE -1.9624 FRA -.1730 FC3-2.4388 BSP 7330
 BDE 1.2720 BRA .6499 BC3 1.7497 FSP -.921

MID-COURSE EXECUTION ACCURACY

SGT 1804.9 SGR 1611.9 SG3 287.6
 RRT -.9147 RRF -.9825 RTF .9252
 SGB 2419.9 R23 .1631 R13 -.9711
 SG1 2368.4 SG2 496.5 THA 138.53

ORBIT DETERMINATION ACCURACY

ST 1193.0 SR 837.6 SS 988.0
 CRT -.9907 CRS .9993 CST -.9858
 LSA 1755.6 MSA 137.4 SSA 11.3
 EL1 1454.7 EL2 93.3 ALF 145.01

LAUNCH DATE FEB 20 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 329.318

RL 147.93 LAL .00 LOL 151.19 VL 28.018 GAL -6.97 AZL 95.54 MCA 152.92 SMA 131.50 ECC .17354 INC 5.5351 VI 30.119
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.779 GAP 1.52 AZP 85.07 TAL 217.41 TAP 10.33 RCA 108.68 APO 154.32 V2 34.785
 RC 100.837 GL -30.84 GP 58.95 ZAL 136.18 ZAP 100.15 ETS 20.14 ZAE 117.85 ETE 118.75 ZAC 87.21 ETC 159.50 CLP -109.99

PLANETOCENTRIC CONIC

C3 27.376 VHL 5.232 OLA -26.52 RAL 16.82 RAD 6568.1 VEL 12.196 PTH 2.19 VHP 5.533 DPA 53.69 RAP 337.82 ECC 1.4505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 0 41 1258.60 9.41 346.28 246.76 116.83 7 21 40 658.6 12.94 339.38
 90.00 9 57 26 679.30 24.15 310.30 252.66 105.25 10 8 45 79.3 26.01 302.12
 100.00 7 51 42 1093.84 6.69 332.72 245.29 119.20 8 9 56 493.8 10.53 326.04
 100.00 11 49 6 5607.33 27.14 262.55 253.49 103.04 13 22 34 5007.3 28.66 254.08
 110.00 8 8 17 1041.82 1.41 325.52 242.03 124.16 8 25 38 441.8 5.89 319.29
 110.00 13 49 1 5232.11 33.23 235.40 254.83 98.53 15 16 13 4632.1 34.05 226.25

DIFFERENTIAL CORRECTIONS

TDE -1.2766 TRA -.6030 TC3-1.1822 BAU .6288
 RDE .8506 RRA .0577 RC3 1.2468 FAU .06275
 FDE -1.9303 FRA -.0393 FC3-1.9845 BSP 7826
 BDE 1.5340 BRA .6057 BC3 1.7181 FSP +819

MID-COURSE EXECUTION ACCURACY

SGT 2007.3 SGR 1604.6 SG3 256.1
 RRT -.9215 RRF -.9845 RTF .9346
 SGB 2569.8 R23 .1712 R13 -.9720
 SG1 2521.5 SG2 496.0 THA 141.88

ORBIT DETERMINATION ACCURACY

ST 1415.9 SR 932.5 SS 1010.9
 CRT -.9909 CRS .9998 CST -.9887
 LSA 1968.8 MSA 141.5 SSA 9.2
 EL1 1692.1 EL2 105.1 ALF 146.73

LAUNCH DATE FEB 20 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 335.461

RL 147.93 LAL .00 LOL 151.19 VL 27.990 GAL -6.83 AZL 96.51 MCA 156.06 SMA 131.29 ECC .17318 INC 6.5122 VI 30.119
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.756 GAP 1.85 AZP 84.04 TAL 216.56 TAP 12.62 RCA 108.56 APO 154.03 V2 34.784
 RC 103.240 GL -35.18 GP 61.83 ZAL 132.62 ZAP 101.54 ETS 25.28 ZAE 114.29 ETE 122.21 ZAC 85.23 ETC 161.37 CLP -115.08

PLANETOCENTRIC CONIC

C3 29.934 VHL 5.471 OLA -29.92 RAL 20.09 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 6.027 DPA 55.05 RAP 333.17 ECC 1.4926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.90 7 19 55 1256.31 18.03 350.35 255.63 114.29 7 40 51 656.3 21.16 342.95
 100.10 10 4 16 726.21 18.04 311.37 255.64 114.28 10 16 22 126.2 21.17 303.97
 79.90 7 19 55 1256.31 18.03 350.35 255.63 114.29 7 40 51 656.3 21.16 342.95
 100.10 10 4 16 726.21 18.04 311.37 255.64 114.28 10 16 22 126.2 21.17 303.97
 110.00 9 3 46 917.65 6.14 319.01 248.92 123.69 9 19 4 317.7 10.52 312.67
 110.00 13 19 35 5400.91 30.82 247.95 260.72 105.58 14 49 36 4800.9 32.64 239.21

DIFFERENTIAL CORRECTIONS

TDE -1.5847 TRA -.5405 TC3-1.1959 BAU .6517
 RDE .9724 RRA -.0431 RC3 1.1055 FAU .05295
 FDE -1.8850 FRA .0827 FC3-1.5313 BSP 8345
 BDE 1.8593 BRA .5422 BC3 1.6286 FSP -718

MID-COURSE EXECUTION ACCURACY

SGT 2212.0 SGR 1582.1 SG3 223.9
 RRT -.9255 RRF -.9860 RTF .9427
 SGB 2719.6 R23 .1766 R13 -.9734
 SG1 2674.0 SG2 495.7 THA 145.13

ORBIT DETERMINATION ACCURACY

ST 1671.6 SR 1019.1 SS 1028.3
 CRT -.9911 CRS .9999 CST -.9912
 LSA 2206.5 MSA 145.3 SSA 7.3
 EL1 1954.3 EL2 115.9 ALF 148.74

LAUNCH DATE FEB 20 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

RL 147.93 LAL .00 LOL 151.19 VL 27.959 GAL -6.69 AZL 97.76 MCA 159.18 SMA 131.07 ECC .17287 INC 7.7636 V1 30.119
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.733 GAP 2.17 AZP 82.74 TAL 215.65 TAP 14.83 RCA 108.41 APO 153.73 V2 34.783
 RC 105.643 GL -40.03 GP 65.05 ZAL 128.49 ZAP 102.33 ETS 30.92 ZAE 110.45 ETE 125.80 ZAC 83.20 ETC 163.62 CLP-120.41

PLANETOCENTRIC CONIC

C3 34.016 VML 5.832 DLA -33.64 RAL 24.05 RAD 6568.3 VEL 12.465 PTH 2.25 VMP 6.685 DPA 56.52 RAP 327.79 ECC 1.5598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.04 6 34 33 1480.33 19.08 7.87 262.71 118.24 6 59 13 880.3 22.70 22.70 .65
 108.96 11 21 13 5854.56 19.09 277.74 262.72 118.23 12 58 48 5254.6 22.71 270.51
 71.04 6 34 33 1480.33 19.08 7.87 262.71 118.24 6 59 13 880.3 22.70 22.70 .65
 108.96 11 21 13 5854.56 19.09 277.74 262.72 118.23 12 58 48 5254.6 22.71 270.51
 110.00 10 41 13 688.94 14.54 306.63 260.00 121.28 10 52 42 88.9 18.58 299.84
 110.00 12 13 44 5693.94 23.76 267.77 265.25 115.33 13 48 38 5093.9 26.96 260.08

DIFFERENTIAL CORRECTIONS

TDE-1.9890 TRA -.4312 TC3-1.1429 BAU .6666
 RDE 1.0952 RRA -.1668 RC3 .9179 FAU .04309
 FDE-1.8226 FRA .1948 FC3-1.0967 BSP 8824
 BDE 2.2706 BRA .4623 BC3 1.4658 FSP -611

MID-COURSE EXECUTION ACCURACY

SGT 2419.5 SGR 1530.5 SG3 191.2
 RRT -.9261 RRF -.9867 RTF .9503
 SGB 2863.0 R23 .1795 R13 -.9750
 SG1 2819.8 SG2 495.6 THA 148.56

ORBIT DETERMINATION ACCURACY

ST 1960.3 SR 1078.0 SS 1035.2
 CRT -.9912 CRS .9998 CST -.9932
 LSA 2460.6 MSA 149.0 SSA 5.7
 EL1 2233.7 EL2 125.5 ALF 151.31

LAUNCH DATE FEB 20 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

RL 147.93 LAL .00 LOL 151.19 VL 27.926 GAL -6.53 AZL 99.43 MCA 162.29 SMA 130.83 ECC .17260 INC 9.4335 V1 30.119
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.709 GAP 2.47 AZP 81.01 TAL 214.67 TAP 16.96 RCA 108.25 APO 153.41 V2 34.783
 RC 108.045 GL -45.38 GP 68.70 ZAL 123.74 ZAP 102.46 ETS 37.45 ZAE 106.25 ETE 130.02 ZAC 81.01 ETC 166.72 CLP-126.44

PLANETOCENTRIC CONIC

C3 40.819 VML 6.389 DLA -37.57 RAL 28.90 RAD 6568.6 VEL 12.735 PTH 2.32 VMP 7.596 DPA 58.01 RAP 321.27 ECC 1.6718
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.21 6 15 33 1641.38 19.41 20.87 271.63 122.82 6 42 55 1041.4 23.59 13.96
 115.79 12 18 57 5785.63 19.42 272.47 271.64 122.81 13 55 22 5185.6 23.60 265.55
 64.21 6 15 33 1641.38 19.41 20.87 271.63 122.82 6 42 55 1041.4 23.59 13.96
 115.79 12 18 57 5785.63 19.42 272.47 271.64 122.81 13 55 22 5185.6 23.60 265.55
 64.21 6 15 33 1641.38 19.41 20.87 271.63 122.82 6 42 55 1041.4 23.59 13.96
 115.79 12 18 57 5785.63 19.42 272.47 271.64 122.81 13 55 22 5185.6 23.60 265.55

DIFFERENTIAL CORRECTIONS

TDE-2.5419 TRA -.2483 TC3-1.0145 BAU .6696
 RDE 1.1972 RRA -.3146 RC3 .6903 FAU .03358
 FDE-1.7493 FRA .2925 FC3 -.7123 BSP 9300
 BDE 2.8097 BRA .4008 BC3 1.2271 FSP -508

MID-COURSE EXECUTION ACCURACY

SGT 2637.3 SGR 1434.4 SG3 159.3
 RRT -.9228 RRF -.9850 RTF .9590
 SGB 3002.2 R23 .1762 R13 -.9778
 SG1 2961.6 SG2 492.2 THA 152.53

ORBIT DETERMINATION ACCURACY

ST 2281.4 SR 1079.3 SS 1031.7
 CRT -.9907 CRS .9993 CST -.9950
 LSA 2722.4 MSA 150.9 SSA 4.4
 EL1 2520.3 EL2 132.7 ALF 154.81

LAUNCH DATE FEB 20 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

RL 147.93 LAL .00 LOL 151.19 VL 27.891 GAL -6.36 AZL 101.79 MCA 165.39 SMA 130.58 ECC .17235 INC11.7865 V1 30.119
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.683 GAP 2.76 AZP 78.58 TAL 213.61 TAP 18.99 RCA 108.07 APO 153.08 V2 34.784
 RC 110.446 GL -51.10 GP 72.86 ZAL 118.41 ZAP 101.90 ETS 45.81 ZAE 101.51 ETE 135.91 ZAC 78.49 ETC 171.70 CLP-134.41

PLANETOCENTRIC CONIC

C3 52.935 VML 7.276 DLA -41.48 RAL 34.90 RAD 6568.9 VEL 13.202 PTH 2.41 VMP 8.920 DPA 59.28 RAP 313.08 ECC 1.8712
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.32 6 11 51 1785.00 18.48 32.24 282.67 127.82 6 41 36 1185.0 23.26 25.79
 121.68 13 10 28 5772.25 18.50 270.65 282.68 127.82 14 46 40 5172.3 23.27 264.20
 58.32 6 11 51 1785.00 18.48 32.24 282.67 127.82 6 41 36 1185.0 23.26 25.79
 121.68 13 10 28 5772.25 18.50 270.65 282.68 127.82 14 46 40 5172.3 23.27 264.20
 58.32 6 11 51 1785.00 18.48 32.24 282.67 127.82 6 41 36 1185.0 23.26 25.79
 121.68 13 10 28 5772.25 18.50 270.65 282.68 127.82 14 46 40 5172.3 23.27 264.20

DIFFERENTIAL CORRECTIONS

TDE-3.3349 TRA .0654 TC3 -.8091 BAU .6495
 RDE 1.1877 RRA -.4827 RC3 .4333 FAU .02451
 FDE-1.6689 FRA .3804 FC3 -.4009 BSP 9726
 BDE 3.5400 BRA .4871 BC3 .9178 FSP -408

MID-COURSE EXECUTION ACCURACY

SGT 2878.8 SGR 1236.9 SG3 128.9
 RRT -.9081 RRF -.9751 RTF .9696
 SGB 3133.3 R23 .1650 R13 -.9818
 SG1 3096.1 SG2 481.6 THA 158.13

ORBIT DETERMINATION ACCURACY

ST 2626.5 SR 947.8 SS 1017.2
 CRT -.9882 CRS .9975 CST -.9965
 LSA 2968.0 MSA 150.2 SSA 3.3
 EL1 2789.0 EL2 136.6 ALF 160.32

LAUNCH DATE FEB 20 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

RL 147.93 LAL .00 LOL 151.19 VL 27.854 GAL -6.17 AZL 105.36 MCA 168.44 SMA 130.31 ECC .17210 INC15.3605 V1 30.119
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.658 GAP 3.03 AZP 74.94 TAL 212.46 TAP 20.91 RCA 107.88 APO 152.74 V2 34.786
 RC 112.844 GL -56.83 GP 77.46 ZAL 112.60 ZAP 100.63 ETS 58.75 ZAE 95.97 ETE 146.35 ZAC 75.36 ETC 181.46 CLP-148.19

PLANETOCENTRIC CONIC

C3 76.798 VML 8.763 DLA -44.90 RAL 42.24 RAD 6569.5 VEL 14.077 PTH 2.57 VMP 10.987 DPA 59.85 RAP 302.61 ECC 2.2639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.57 6 21 56 1926.08 15.67 42.32 295.87 132.63 6 54 2 1326.1 20.99 36.45
 126.43 13 58 58 5810.14 15.69 271.54 295.89 132.63 15 35 48 5210.1 21.01 265.66
 53.57 6 21 56 1926.08 15.67 42.32 295.87 132.63 6 54 2 1326.1 20.99 36.45
 126.43 13 58 58 5810.14 15.69 271.54 295.89 132.63 15 35 48 5210.1 21.01 265.66
 53.57 6 21 56 1926.08 15.67 42.32 295.87 132.63 6 54 2 1326.1 20.99 36.45
 126.43 13 58 58 5810.14 15.69 271.54 295.89 132.63 15 35 48 5210.1 21.01 265.66

DIFFERENTIAL CORRECTIONS

TDE-4.5206 TRA .6413 TC3 -.5385 BAU .5824
 RDE .7159 RRA -.5961 RC3 .1783 FAU .01604
 FDE-1.6006 FRA .4665 FC3 -.1808 BSP 10153
 BDE 4.5770 BRA .8756 BC3 .5672 FSP -321

MID-COURSE EXECUTION ACCURACY

SGT 3158.6 SGR 787.0 SG3 101.5
 RRT -.8061 RRF -.8928 RTF .9825
 SGB 3255.2 R23 .1417 R13 -.9871
 SG1 3223.0 SG2 456.4 THA 168.41

ORBIT DETERMINATION ACCURACY

ST 2961.1 SR 496.4 SS 1001.0
 CRT -.9613 CRS .9767 CST -.9980
 LSA 3161.5 MSA 144.9 SSA 2.4
 EL1 2999.3 EL2 135.0 ALF 170.83

LAUNCH DATE FEB 20 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 27.815 GAL -5.96 AZL 111.42 HCA 171.43 SMA 130.04 ECC .17177 INC21.4179 VI 30.119
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.631 GAP 3.27 AZP 68.80 TAL 211.21 TAP 22.64 RCA 107.70 APO 152.37 V2 34.789
 RC 115.239 GL -61.67 GP 81.33 ZAL 106.51 ZAP 98.66 ETS 85.18 ZAE 89.00 ETE 170.35 ZAC 71.00 ETC 205.15 CLP 177.71

PLANETOCENTRIC CONIC
 C3 131.717 VHL 11.477 CLA -46.85 RAL 50.81 RAD 6570.4 VEL 15.908 PTH 2.81 VHP 14.567 OPA 58.73 RAP 289.55 ECC 3.1677
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.97 6 46 35 2065.27 10.66 50.32 310.63 135.90 7 21 0 1465.3 16.35 44.95
 129.03 14 42 41 612.39 10.68 297.06 310.64 135.90 14 52 54 12.4 16.36 291.68
 50.97 6 46 35 2065.27 10.66 50.32 310.63 135.90 7 21 0 1465.3 16.35 44.95
 129.03 14 42 41 612.39 10.68 297.06 310.64 135.90 14 52 54 12.4 16.36 291.68
 50.97 6 46 35 2065.27 10.66 50.32 310.63 135.90 7 21 0 1465.3 16.35 44.95
 129.03 14 42 41 612.39 10.68 297.06 310.64 135.90 14 52 54 12.4 16.36 291.68

MID-COURSE EXECUTION ACCURACY
 SGT 3222.4 SGR 932.3 SG3 78.4
 RRT .8603 RRF .8180 RTF .9956
 SGB 3354.6 R23 -.1106 R13 .9923
 SGI 3322.8 SG2 460.9 THA 14.26

ORBIT DETERMINATION ACCURACY
 ST 2946.0 SR 927.4 SS 1009.9
 CRT .9871 CRS -.9814 CST -.9995
 LSA 3246.0 MSA 148.8 SSA 1.9
 EL1 3085.3 EL2 141.9 ALF 17.30

DIFFERENTIAL CORRECTIONS
 TOE-5.8523 TRA 1.7238 TC3 -.2241 BAU .3947
 ROE-1.8567 RRA -.1373 RC3 -.0023 FAU .00751
 FDE-1.5866 FRA .5859 FC3 -.0494 BSP 10482
 BDE 6.1398 BRA 1.7292 BC3 .2241 FSP -247

LAUNCH DATE FEB 20 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 27.775 GAL -5.70 AZL 123.54 HCA 174.22 SMA 129.75 ECC .17114 INC33.5380 VI 30.119
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.605 GAP 3.44 AZP 56.60 TAL 209.75 TAP 23.97 RCA 107.55 APO 151.96 V2 34.792
 RC 117.630 GL -63.12 GP 78.01 ZAL 100.54 ZAP 96.12 ETS 134.77 ZAE 78.94 ETE 217.66 ZAC 63.80 ETC 253.07 CLP 120.86

PLANETOCENTRIC CONIC
 C3 293.085 VHL 17.120 CLA -45.17 RAL 59.33 RAD 6571.7 VEL 20.357 PTH 3.16 VHP 21.772 OPA 53.69 RAP 274.48 ECC 5.8234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.21 7 28 44 2169.48 4.38 53.64 324.95 135.00 8 4 54 1569.5 10.00 48.33
 126.79 15 8 32 758.31 4.39 304.29 324.97 135.00 15 21 10 158.3 10.02 298.98
 53.21 7 28 44 2169.48 4.38 53.64 324.95 135.00 8 4 54 1569.5 10.00 48.33
 126.79 15 8 32 758.31 4.39 304.29 324.97 135.00 15 21 10 158.3 10.02 298.98
 53.21 7 28 44 2169.48 4.38 53.64 324.95 135.00 8 4 54 1569.5 10.00 48.33
 126.79 15 8 32 758.31 4.39 304.29 324.97 135.00 15 21 10 158.3 10.02 298.98

MID-COURSE EXECUTION ACCURACY
 SGT 1387.5 SGR 3094.8 SG3 61.4
 RRT .8640 RRF .9849 RTF .9375
 SGB 3391.6 R23 -.0937 R13 .9954
 SGI 3328.8 SG2 649.5 THA 67.94

ORBIT DETERMINATION ACCURACY
 ST 877.4 SR 2831.1 SS 1122.1
 CRT .9668 CRS -.9977 CST -.9818
 LSA 3161.6 MSA 220.1 SSA .8
 EL1 2956.1 EL2 214.9 ALF 73.23

DIFFERENTIAL CORRECTIONS
 TOE-2.4195 TRA 2.3720 TC3 -.0110 BAU .2790
 ROE-8.3802 RRA 2.7087 RC3 .0704 FAU-.00451
 FDE-1.7455 FRA .8485 FC3 .0133 BSP 10627
 BDE 8.7224 BRA 3.6005 BC3 .0712 FSP -195

LAUNCH DATE FEB 20 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 27.733 GAL -5.29 AZL 153.03 HCA 176.35 SMA 129.46 ECC .16933 INC63.0326 VI 30.119
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.578 GAP 3.42 AZP 27.01 TAL 207.68 TAP 24.04 RCA 107.54 APO 151.38 V2 34.796
 RC 120.015 GL -54.07 GP 61.26 ZAL 95.53 ZAP 93.45 ETS 166.62 ZAE 60.64 ETE 246.73 ZAC 48.93 ETC 287.20 CLP 97.20

PLANETOCENTRIC CONIC
 C3 923.895 VHL 30.396 CLA -34.03 RAL 63.99 RAD 6572.9 VEL 32.329 PTH 3.49 VHP 38.440 OPA 38.82 RAP 259.71 ECC16.2050
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.29 9 9 16 2028.17 -.10 38.20 334.12 124.03 9 43 4 1428.2 4.37 31.97
 109.71 14 5 9 1086.16 -.08 327.97 334.13 124.03 14 23 16 486.2 4.39 321.75
 70.29 9 9 16 2028.17 -.10 38.20 334.12 124.03 9 43 4 1428.2 4.37 31.97
 109.71 14 5 9 1086.16 -.08 327.97 334.13 124.03 14 23 16 486.2 4.39 321.75
 110.00 13 42 19 1155.81 -2.94 331.47 332.20 124.07 14 1 35 555.8 1.55 325.27
 110.00 14 31 16 1006.52 2.76 323.68 336.05 124.08 14 48 3 406.5 7.22 317.43

MID-COURSE EXECUTION ACCURACY
 SGT 792.5 SGR 3058.9 SG3 52.3
 RRT -.6276 RRF .9989 RTF -.5902
 SGB 3159.9 R23 -.0803 R13 .9968
 SGI 3100.7 SG2 608.7 THA 99.61

ORBIT DETERMINATION ACCURACY
 ST 693.9 SR 2269.3 SS 1451.1
 CRT -.9464 CRS -.9997 CST .9387
 LSA 2772.5 MSA 223.8 SSA .4
 EL1 2363.2 EL2 215.2 ALF 106.28

DIFFERENTIAL CORRECTIONS
 TOE 3.6644 TRA .9558 TC3 -.0530 BAU 2.4839
 ROE-11.7067 RRA 7.7362 RC3 .1940 FAU-.03928
 FDE-2.2411 FRA 1.6324 FC3 .0368 BSP 9149
 BDE12.2669 BRA 7.7950 BC3 .2011 FSP -157

LAUNCH DATE FEB 20 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 27.691 GAL -5.96 AZL 24.63 HCA 183.63 SMA 129.17 ECC .17793 INC65.3738 VI 30.119
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.551 GAP 4.87 AZP 155.33 TAL 209.74 TAP 33.36 RCA 106.18 APO 152.15 V2 34.800
 RC 122.394 GL 52.92 GP -60.65 ZAL 95.94 ZAP 94.85 ETS 181.84 ZAE 63.86 ETE 103.20 ZAC 75.57 ETC 70.40 CLP 99.93

PLANETOCENTRIC CONIC
 C3 984.822 VHL 31.382 CLA 66.80 RAL 16.86 RAD 6572.9 VEL 33.258 PTH 3.50 VHP 38.751 OPA -77.92 RAP 200.32 ECC17.2077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.58 15 21 33 5069.77 .33 245.07 287.02 23.20 16 46 3 4469.8 -7.02 242.32
 153.42 1 36 54 3338.66 .34 99.01 287.00 23.20 2 32 32 2738.7 -7.01 96.26
 26.58 15 21 33 5069.77 .33 245.07 287.02 23.20 16 46 3 4469.8 -7.02 242.32
 153.42 1 36 54 3338.66 .34 99.01 287.00 23.20 2 32 32 2738.7 -7.01 96.26
 26.58 15 21 33 5069.77 .33 245.07 287.02 23.20 16 46 3 4469.8 -7.02 242.32
 153.42 1 36 54 3338.66 .34 99.01 287.00 23.20 2 32 32 2738.7 -7.01 96.26

MID-COURSE EXECUTION ACCURACY
 SGT 1103.1 SGR 3086.9 SG3 52.8
 RRT .8281 RRF -.9997 RTF -.8177
 SGB 3278.1 R23 -.0744 R13 -.9971
 SGI 3224.2 SG2 592.1 THA 72.92

ORBIT DETERMINATION ACCURACY
 ST 596.0 SR 2712.2 SS 1819.9
 CRT .9515 CRS 1.0000 CST .9502
 LSA 3315.2 MSA 181.5 SSA 1.0
 EL1 2771.1 EL2 179.4 ALF 78.14

DIFFERENTIAL CORRECTIONS
 TOE-2.9972 TRA 1.6937 TC3 -.0874 BAU 2.8309
 ROE-14.7885 RRA 1.8297 RC3 -.1964 FAU-.04211
 FDE 2.9650 FRA -.3502 FC3 .0370 BSP 9890
 BDE15.0892 BRA 2.4933 BC3 .2150 FSP -169

LAUNCH DATE FEB 20 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 391.433

RL 147.93 LAL .00 LOL 151.19 VL 27.648 GAL -5.53 AZL 54.47 MCA 185.75 SMA 128.86 ECC .17600 INC35.5343 V1 30.119
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.523 GAP 4.83 AZP 125.40 TAL 207.67 TAP 33.41 RCA 106.18 APO 151.55 V2 34.805
 RC 124.766 GL 62.58 GP -76.21 ZAL 99.71 ZAP 98.54 ETS 203.79 ZAE 82.50 ETE 124.20 ZAC 91.16 ETC 94.49 CLP 128.52

PLANETOCENTRIC CONIC

C3 324.668 VHL 18.019 CLA 68.66 RAL 346.79 RAD 6571.8 VEL 21.118 PTH 3.20 VHP 21.959 DPA -79.10 RAP 89.02 ECC 6.3432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.42 13 16 47 4992.16 -5.00 244.48 254.84 21.43 14 39 59 4392.2 -12.44 241.92
 155.58 23 37 46 3247.68 -5.00 96.08 254.82 21.43 24 31 53 2647.7 -12.43 93.52
 24.42 13 16 47 4992.16 -5.00 244.48 254.84 21.43 14 39 59 4392.2 -12.44 241.92
 155.58 23 37 46 3247.68 -5.00 96.08 254.82 21.43 24 31 53 2647.7 -12.43 93.52
 24.42 13 16 47 4992.16 -5.00 244.48 254.84 21.43 14 39 59 4392.2 -12.44 241.92
 155.58 23 37 46 3247.68 -5.00 96.08 254.82 21.43 24 31 53 2647.7 -12.43 93.52

DIFFERENTIAL CORRECTIONS

TDE 2.3807 TRA .1537 TC3 -.0203 BAU .4645
 RDE -6.4491 RRA 3.3927 RC3 -.1051 FAU .00358
 FDE 1.5190 FRA -6.371 FC3 .0095 BSP 11517
 BDE 6.8745 BRA 3.3962 BC3 .1070 FSP -206

MID-COURSE EXECUTION ACCURACY

SGT 772.3 SGR 3624.2 SG3 63.7
 RRT -.4025 RRF -.9924 RTF .5061
 SGB 3705.6 R23 -.0994 R13 -.9942
 SG1 3638.0 SG2 704.3 THA 95.09

ORBIT DETERMINATION ACCURACY

ST 758.1 SR 2235.2 SS 969.6
 CRT -.8950 CRS .9971 CST -.9264
 LSA 2530.9 MSA 324.7 SSA 1.6
 EL1 2338.0 EL2 323.3 ALF 107.23

LAUNCH DATE FEB 20 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 397.040

RL 147.93 LAL .00 LOL 151.19 VL 27.603 GAL -5.23 AZL 66.71 MCA 188.54 SMA 128.56 ECC .17561 INC23.2897 V1 30.119
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.496 GAP 4.98 AZP 113.06 TAL 206.06 TAP 34.60 RCA 105.98 APO 151.14 V2 34.811
 RC 127.128 GL 62.48 GP -76.76 ZAL 103.65 ZAP 103.18 ETS 259.83 ZAE 92.86 ETE 179.59 ZAC 98.98 ETC 151.13 CLP 174.39

PLANETOCENTRIC CONIC

C3 150.184 VHL 12.255 DLA 65.07 RAL 340.90 RAD 6570.6 VEL 16.478 PTH 2.87 VHP 14.762 DPA -69.87 RAP 64.43 ECC 3.4716
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.60 13 2 41 4865.90 -11.81 239.05 245.34 25.50 14 23 47 4265.9 -19.01 235.83
 151.40 23 4 55 3148.59 -11.80 95.23 245.32 25.50 23 57 23 2548.6 -19.00 92.02
 28.60 13 2 41 4865.90 -11.81 239.05 245.34 25.50 14 23 47 4265.9 -19.01 235.83
 151.40 23 4 55 3148.59 -11.80 95.23 245.32 25.50 23 57 23 2548.6 -19.00 92.02
 28.60 13 2 41 4865.90 -11.81 239.05 245.34 25.50 14 23 47 4265.9 -19.01 235.83
 151.40 23 4 55 3148.59 -11.80 95.23 245.32 25.50 23 57 23 2548.6 -19.00 92.02

DIFFERENTIAL CORRECTIONS

TDE 3.8008 TRA -2.5839 TC3 -.1431 BAU .2955
 RDE -.9479 RRA 1.6422 RC3 .0346 FAU .01124
 FDE 1.1419 FRA -.6887 FC3 -.0648 BSP 12083
 BDE 3.9172 BRA 3.0616 BC3 .1472 FSP -265

MID-COURSE EXECUTION ACCURACY

SGT 3390.7 SGR 1876.8 SG3 81.7
 RRT -.9490 RRF -.9253 RTF .9964
 SGB 3875.4 R23 -.1370 R13 -.9890
 SG1 3840.0 SG2 522.5 THA 151.72

ORBIT DETERMINATION ACCURACY

ST 1974.1 SR 703.6 SS 741.1
 CRT -.9053 CRS .8852 CST -.9990
 LSA 2203.8 MSA 291.1 SSA 1.9
 EL1 2076.4 EL2 284.2 ALF 161.76

LAUNCH DATE FEB 20 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 402.835

RL 147.93 LAL .00 LOL 151.19 VL 27.558 GAL -4.97 AZL 72.81 MCA 191.53 SMA 128.25 ECC .17572 INC17.1858 V1 30.119
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.469 GAP 5.18 AZP 106.86 TAL 204.57 TAP 36.10 RCA 105.72 APO 150.79 V2 34.818
 RC 129.481 GL 59.55 GP -71.21 ZAL 107.07 ZAP 108.13 ETS 288.23 ZAE 100.05 ETE 206.84 ZAC 104.05 ETC 179.47 CLP 164.97

PLANETOCENTRIC CONIC

C3 88.547 VHL 9.410 CLA 61.48 RAL 342.86 RAD 6569.7 VEL 14.488 PTH 2.63 VHP 11.268 DPA -62.26 RAP 55.04 ECC 2.4573
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.85 13 20 35 4742.37 -17.77 232.59 242.85 30.09 14 39 37 4142.4 -24.63 228.60
 147.15 23 2 40 3058.46 -17.75 93.69 242.83 30.09 23 53 38 2458.5 -24.62 89.70
 32.85 13 20 35 4742.37 -17.77 232.59 242.85 30.09 14 39 37 4142.4 -24.63 228.60
 147.15 23 2 40 3058.46 -17.75 93.69 242.83 30.09 23 53 38 2458.5 -24.62 89.70
 32.85 13 20 35 4742.37 -17.77 232.59 242.85 30.09 14 39 37 4142.4 -24.63 228.60
 147.15 23 2 40 3058.46 -17.75 93.69 242.83 30.09 23 53 38 2458.5 -24.62 89.70

DIFFERENTIAL CORRECTIONS

TDE 2.9004 TRA -2.6961 TC3 -.4759 BAU .5654
 RDE .6096 RRA .1647 RC3 -.0404 FAU .02125
 FDE 1.1190 FRA -7.192 FC3 -.2077 BSP 12534
 BDE 2.9637 BRA 2.7011 BC3 .4776 FSP -342

MID-COURSE EXECUTION ACCURACY

SGT 3967.4 SGR 433.2 SG3 104.3
 RRT .0010 RRF .1722 RTF .9824
 SGB 3991.0 R23 .1712 R13 .9824
 SG1 3967.4 SG2 433.2 THA .01

ORBIT DETERMINATION ACCURACY

ST 2045.3 SR 376.5 SS 715.5
 CRT .7670 CRS -.8515 CST -.9895
 LSA 2184.5 MSA 254.3 SSA 2.5
 EL1 2065.8 EL2 239.2 ALF 8.15

LAUNCH DATE FEB 20 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 408.694

RL 147.93 LAL .00 LOL 151.19 VL 27.513 GAL -4.71 AZL 76.41 MCA 194.59 SMA 127.94 ECC .17607 INC13.5904 V1 30.119
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.443 GAP 5.40 AZP 103.17 TAL 203.11 TAP 37.70 RCA 105.42 APO 150.47 V2 34.825
 RC 131.823 GL 55.96 GP -64.98 ZAL 109.81 ZAP 113.08 ETS 297.34 ZAE 105.68 ETE 214.23 ZAC 107.95 ETC 188.04 CLP 157.96

PLANETOCENTRIC CONIC

C3 60.460 VHL 7.776 DLA 58.27 RAL 346.65 RAD 6569.1 VEL 13.484 PTH 2.46 VHP 9.328 DPA -55.54 RAP 49.63 ECC 1.9950
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.68 13 45 25 4635.26 -22.21 226.00 242.04 34.62 15 2 40 4035.3 -28.71 221.25
 143.32 23 8 4 2987.28 -22.20 91.82 242.02 34.61 23 57 51 2387.3 -28.70 87.07
 36.68 13 45 25 4635.26 -22.21 226.00 242.04 34.62 15 2 40 4035.3 -28.71 221.25
 143.32 23 8 4 2987.28 -22.20 91.82 242.02 34.61 23 57 51 2387.3 -28.70 87.07
 36.68 13 45 25 4635.26 -22.21 226.00 242.04 34.62 15 2 40 4035.3 -28.71 221.25
 143.32 23 8 4 2987.28 -22.20 91.82 242.02 34.61 23 57 51 2387.3 -28.70 87.07

DIFFERENTIAL CORRECTIONS

TDE 2.3892 TRA -2.4085 TC3 -.8490 BAU .6982
 RDE .8010 RRA -.1664 RC3 -.1589 FAU .02968
 FDE 1.1650 FRA -.7302 FC3 -.4251 BSP 12842
 BDE 2.5199 BRA 2.4142 BC3 .8638 FSP -425

MID-COURSE EXECUTION ACCURACY

SGT 4028.7 SGR 681.0 SG3 128.7
 RRT .7844 RRF .8952 RTF .9722
 SGB 4085.8 R23 .2005 R13 .9751
 SG1 4064.3 SG2 418.7 THA 7.63

ORBIT DETERMINATION ACCURACY

ST 2031.2 SR 594.4 SS 734.9
 CRT .9195 CRS -.9747 CST -.9841
 LSA 2226.6 MSA 248.0 SSA 3.2
 EL1 2104.3 EL2 225.5 ALF 15.24

LAUNCH DATE FEB 20 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 414.577

RL 147.93 LAL .00 LOL 151.19 VL 27.467 GAL -4.46 AZL 78.77 HCA 197.69 SMA 127.63 ECC .17659 INC11.2260 V1 30.119
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.416 GAP 5.62 AZP 100.71 TAL 201.64 TAP 39.34 RCA 105.09 APO 150.17 V2 34.833
 RC 134.153 GL 52.37 GP -59.10 ZAL 111.88 ZAP 117.86 ETS 301.26 ZAE 110.25 ETE 215.96 ZAC 111.23 ETC 191.06 CLP-155.47

PLANETOCENTRIC CONIC

C3 45.316 VHL 6.732 CLA 55.46 RAL 350.76 RAD 6568.7 VEL 12.910 PTH 2.35 VHP 8.158 DPA -49.43 RAP 46.20 ECC 1.7458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.10 14 11 2 4545.24 -25.30 219.71 241.79 38.84 15 26 47 3945.2 -31.42 214.25
 139.90 23 15 15 2934.43 -25.29 89.99 241.77 38.84 24 4 9 2334.4 -31.40 84.54
 40.10 14 11 2 4545.24 -25.30 219.71 241.79 38.84 15 26 47 3945.2 -31.42 214.25
 139.90 23 15 15 2934.43 -25.29 89.99 241.77 38.84 24 4 9 2334.4 -31.40 84.54
 40.10 14 11 2 4545.24 -25.30 219.71 241.79 38.84 15 26 47 3945.2 -31.42 214.25
 139.90 23 15 15 2934.43 -25.29 89.99 241.77 38.84 24 4 9 2334.4 -31.40 84.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.1111 TRA-2.1825 TC3-1.2614 BAU .7809 SGT 4104.4 SGR 815.4 SG3 153.0 ST 2048.7 SR 656.7 SS 756.9
 RDE .7621 RRA -.2276 RC3 -.2651 FAU .03721 RRT .8639 RRF .9526 RTF .9646 CRT .9415 CRS -.9887 CST -.9814
 FDE 1.2023 FRA -.7208 FC3 -.7108 BSP 13317 SGB 4184.6 R23 .2206 R13 .9685 LSA 2267.8 MSA 241.5 SSA 4.0
 BDE 2.2444 BRA 2.1943 BC3 1.2890 FSP -517 SG1 4165.0 SG2 404.8 THA 9.83 EL1 2140.9 EL2 211.8 ALF 16.97

LAUNCH DATE FEB 20 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 420.474

RL 147.93 LAL .00 LOL 151.19 VL 27.421 GAL -4.19 AZL 80.45 HCA 200.81 SMA 127.32 ECC .17724 INC 9.5492 V1 30.119
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.390 GAP 5.85 AZP 98.94 TAL 200.16 TAP 40.98 RCA 104.75 APO 149.89 V2 34.841
 RC 136.471 GL 48.99 GP -53.74 ZAL 113.31 ZAP 122.35 ETS 303.45 ZAE 114.00 ETE 215.62 ZAC 114.13 ETC 192.09 CLP-154.76

PLANETOCENTRIC CONIC

C3 36.151 VHL 6.013 CLA 53.02 RAL 354.82 RAD 6568.4 VEL 12.551 PTH 2.27 VHP 7.416 DPA -43.86 RAP 44.02 ECC 1.5950
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.10 14 35 51 4469.67 -27.37 213.91 241.89 42.63 15 50 20 3869.7 -33.11 207.86
 136.90 23 22 49 2895.97 -27.36 88.36 241.88 42.63 24 11 5 2296.0 -33.10 82.32
 43.10 14 35 51 4469.67 -27.37 213.91 241.89 42.63 15 50 20 3869.7 -33.11 207.86
 136.90 23 22 49 2895.97 -27.36 88.36 241.88 42.63 24 11 5 2296.0 -33.10 82.32
 43.10 14 35 51 4469.67 -27.37 213.91 241.89 42.63 15 50 20 3869.7 -33.11 207.86
 136.90 23 22 49 2895.97 -27.36 88.36 241.88 42.63 24 11 5 2296.0 -33.10 82.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9845 TRA-1.9527 TC3-1.6471 BAU .8112 SGT 4131.6 SGR 834.1 SG3 170.9 ST 2107.4 SR 677.1 SS 790.8
 RDE .7038 RRA -.1943 RC3 -.3233 FAU .04167 RRT .8678 RRF .9592 RTF .9543 CRT .9494 CRS -.9934 CST -.9791
 FDE 1.2540 FRA -.6454 FC3 -.9978 BSP 12547 SGB 4215.0 R23 .2472 R13 .9587 LSA 2338.1 MSA 241.5 SSA 4.9
 BDE 2.1056 BRA 1.9623 BC3 1.6785 FSP -521 SG1 4195.2 SG2 408.1 THA 10.03 EL1 2204.2 EL2 203.3 ALF 17.11

LAUNCH DATE FEB 20 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 426.363

RL 147.93 LAL .00 LOL 151.19 VL 27.374 GAL -3.92 AZL 81.71 HCA 203.95 SMA 127.01 ECC .17803 INC 8.2934 V1 30.119
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.364 GAP 6.08 AZP 97.59 TAL 198.68 TAP 42.63 RCA 104.40 APO 149.62 V2 34.850
 RC 138.775 GL 45.86 GP -48.93 ZAL 114.17 ZAP 126.50 ETS 304.91 ZAE 117.07 ETE 214.36 ZAC 116.78 ETC 192.25 CLP-154.88

PLANETOCENTRIC CONIC

C3 30.129 VHL 5.489 CLA 50.92 RAL 358.75 RAD 6568.2 VEL 12.309 PTH 2.22 VHP 6.935 DPA -38.79 RAP 42.69 ECC 1.4958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.73 14 59 33 4405.51 -28.73 208.67 242.33 45.96 16 12 59 3805.5 -34.12 202.14
 134.27 23 30 27 2868.31 -28.72 87.00 242.32 45.96 24 18 15 2268.3 -34.10 80.48
 45.73 14 59 33 4405.51 -28.73 208.67 242.33 45.96 16 12 59 3805.5 -34.12 202.14
 134.27 23 30 27 2868.31 -28.72 87.00 242.32 45.96 24 18 15 2268.3 -34.10 80.48
 45.73 14 59 33 4405.51 -28.73 208.67 242.33 45.96 16 12 59 3805.5 -34.12 202.14
 134.27 23 30 27 2868.31 -28.72 87.00 242.32 45.96 24 18 15 2268.3 -34.10 80.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8410 TRA-1.8162 TC3-2.1183 BAU .8676 SGT 4259.6 SGR 827.6 SG3 190.7 ST 2124.1 SR 651.5 SS 790.0
 RDE .6185 RRA -.1751 RC3 -.3308 FAU .04729 RRT .8823 RRF .9626 RTF .9509 CRT .9538 CRS -.9954 CST -.9781
 FDE 1.2293 FRA -.6031 FC3-1.3589 BSP 13519 SGB 4339.3 R23 .2481 R13 .9548 LSA 2346.5 MSA 232.2 SSA 5.9
 BDE 1.9421 BRA 1.8246 BC3 2.1541 FSP -625 SG1 4322.2 SG2 383.9 THA 9.80 EL1 2213.8 EL2 187.8 ALF 16.43

LAUNCH DATE FEB 20 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 432.252

RL 147.93 LAL .00 LOL 151.19 VL 27.327 GAL -3.65 AZL 82.69 HCA 207.10 SMA 126.70 ECC .17895 INC 7.3132 V1 30.119
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.338 GAP 6.32 AZP 96.52 TAL 197.17 TAP 44.26 RCA 104.03 APO 149.37 V2 34.860
 RC 141.067 GL 43.00 GP -44.66 ZAL 114.51 ZAP 130.30 ETS 306.03 ZAE 119.56 ETE 212.69 ZAC 119.25 ETC 192.02 CLP-155.41

PLANETOCENTRIC CONIC

C3 25.915 VHL 5.091 CLA 49.12 RAL 2.58 RAD 6568.0 VEL 12.136 PTH 2.18 VHP 6.621 DPA -34.19 RAP 41.98 ECC 1.4265
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.03 15 22 13 4350.44 -29.62 204.00 243.11 48.84 16 34 44 3750.4 -34.68 197.09
 131.97 23 38 19 2848.28 -29.61 85.90 243.10 48.83 24 25 47 2248.3 -34.67 79.00
 48.03 15 22 13 4350.44 -29.62 204.00 243.11 48.84 16 34 44 3750.4 -34.68 197.09
 131.97 23 38 19 2848.28 -29.61 85.90 243.10 48.83 24 25 47 2248.3 -34.67 79.00
 48.03 15 22 13 4350.44 -29.62 204.00 243.11 48.84 16 34 44 3750.4 -34.68 197.09
 131.97 23 38 19 2848.28 -29.61 85.90 243.10 48.83 24 25 47 2248.3 -34.67 79.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7536 TRA-1.6690 TC3-2.5712 BAU .9029 SGT 4357.3 SGR 796.3 SG3 204.7 ST 2154.8 SR 626.8 SS 790.7
 RDE .5530 RRA -.1418 RC3 -.4249 FAU .05064 RRT .8822 RRF .9584 RTF .9461 CRT .9569 CRS -.9967 CST -.9771
 FDE 1.2035 FRA -.5231 FC3-1.6919 BSP 13859 SGB 4429.4 R23 .2499 R13 .9495 LSA 2368.6 MSA 226.1 SSA 7.1
 BDE 1.8388 BRA 1.6750 BC3 2.6061 FSP -676 SG1 4414.0 SG2 370.1 THA 9.22 EL1 2237.3 EL2 175.3 ALF 15.65

LAUNCH DATE FEB 20 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 438.134

RL 147.93 LAL .00 LOL 151.19 VL 27.280 GAL -3.36 AZL 83.48 MCA 210.25 SMA 126.39 ECC .17998 INC 6.5229 V1 30.119
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.313 GAP 6.55 AZP 95.64 TAL 195.64 TAP 45.89 RCA 103.64 APO 149.13 V2 34.870
 RC 143.344 GL 40.36 GP -40.89 ZAL 114.39 ZAP 133.74 ETS 306.94 ZAE 121.57 ETE 210.87 ZAC 121.59 ETC 191.61 CLP-156.16

PLANETOCENTRIC CONIC

C3 22.824 VHL 4.777 DLA 47.57 RAL 6.34 RAD 6567.9 VEL 12.008 PTH 2.14 VHP 6.421 DPA -30.03 RAP 41.75 ECC 1.3756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.03 15 44 1 4302.67 -30.19 199.86 244.24 51.31 16 55 44 3702.7 -34.97 192.66
 129.97 23 46 33 2833.72 -30.18 85.02 244.22 51.30 24 33 47 2233.7 -34.96 77.82
 50.03 15 44 1 4302.67 -30.19 199.86 244.24 51.31 16 55 44 3702.7 -34.97 192.66
 129.97 23 46 33 2833.72 -30.18 85.02 244.22 51.30 24 33 47 2233.7 -34.96 77.82
 50.03 15 44 1 4302.67 -30.19 199.86 244.24 51.31 16 55 44 3702.7 -34.97 192.66
 129.97 23 46 33 2833.72 -30.18 85.02 244.22 51.30 24 33 47 2233.7 -34.96 77.82

DIFFERENTIAL CORRECTIONS

TDE 1.6891 TRA-1.5268 TC3-3.0256 BAU .9330
 RDE .4995 RRA -.1106 RC3 -.4417 FAU .05273
 FDE 1.1645 FRA -.4302 FC3-2.0002 BSP 14152
 BDE 1.7614 BRA 1.5308 BC3 3.0576 FSP -710

MID-COURSE EXECUTION ACCURACY

SGT 4452.8 SGR 758.7 SG3 214.9
 RRT .8783 RRF .9503 RTF .9416
 SGB 4517.0 R23 .2466 R13 .9446
 SG1 4502.7 SG2 358.7 THA 8.57

ORBIT DETERMINATION ACCURACY

ST 2185.0 SR 602.1 SS 785.8
 CRT .9598 CRS -.9977 CST -.9761
 LSA 2388.7 MSA 220.1 SSA 8.3
 EL1 2260.5 EL2 163.4 ALF 14.89

LAUNCH DATE FEB 20 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 444.009

RL 147.93 LAL .00 LOL 151.19 VL 27.233 GAL -3.06 AZL 84.13 MCA 213.41 SMA 126.08 ECC .18115 INC 5.8687 V1 30.119
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.289 GAP 6.79 AZP 94.90 TAL 194.09 TAP 47.50 RCA 103.24 APO 148.92 V2 34.880
 RC 145.608 GL 37.92 GP -37.58 ZAL 113.86 ZAP 136.86 ETS 307.71 ZAE 123.19 ETE 209.02 ZAC 123.84 ETC 191.11 CLP-157.03

PLANETOCENTRIC CONIC

C3 20.474 VHL 4.525 DLA 46.25 RAL 10.09 RAD 6567.8 VEL 11.910 PTH 2.12 VHP 6.299 DPA -26.26 RAP 41.89 ECC 1.3369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.77 16 5 9 4260.90 -30.55 196.19 245.70 53.42 17 16 10 3660.9 -35.09 188.76
 128.23 23 55 19 2823.07 -30.54 84.33 245.69 53.41 24 42 22 2223.1 -35.07 76.90
 51.77 16 5 9 4260.90 -30.55 196.19 245.70 53.42 17 16 10 3660.9 -35.09 188.76
 128.23 23 55 19 2823.07 -30.54 84.33 245.69 53.41 24 42 22 2223.1 -35.07 76.90
 51.77 16 5 9 4260.90 -30.55 196.19 245.70 53.42 17 16 10 3660.9 -35.09 188.76
 128.23 23 55 19 2823.07 -30.54 84.33 245.69 53.41 24 42 22 2223.1 -35.07 76.90

DIFFERENTIAL CORRECTIONS

TDE 1.6396 TRA-1.3879 TC3-3.4810 BAU .9606
 RDE .4563 RRA -.0838 RC3 -.4465 FAU .05382
 FDE 1.1159 FRA -.3319 FC3-2.2757 BSP 14452
 BDE 1.7019 BRA 1.3904 BC3 3.5095 FSP -734

MID-COURSE EXECUTION ACCURACY

SGT 4548.9 SGR 721.5 SG3 222.1
 RRT .8721 RRF .9391 RTF .9378
 SGB 4605.8 R23 .2379 R13 .9404
 SG1 4592.5 SG2 349.7 THA 7.92

ORBIT DETERMINATION ACCURACY

ST 2213.8 SR 579.7 SS 776.2
 CRT .9629 CRS -.9986 CST -.9751
 LSA 2406.9 MSA 213.8 SSA 9.6
 EL1 2283.4 EL2 151.6 ALF 14.22

LAUNCH DATE FEB 20 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 449.875

RL 147.93 LAL .00 LOL 151.19 VL 27.186 GAL -2.76 AZL 84.68 MCA 216.57 SMA 125.77 ECC .18245 INC 5.3153 V1 30.119
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.264 GAP 7.02 AZP 94.27 TAL 192.53 TAP 49.11 RCA 102.82 APO 148.72 V2 34.891
 RC 147.857 GL 35.64 GP -34.65 ZAL 112.94 ZAP 139.69 ETS 308.35 ZAE 124.48 ETE 207.24 ZAC 126.04 ETC 190.59 CLP-157.97

PLANETOCENTRIC CONIC

C3 18.639 VHL 4.317 DLA 45.11 RAL 13.86 RAD 6567.8 VEL 11.833 PTH 2.10 VHP 6.236 DPA -22.85 RAP 42.33 ECC 1.3067
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.30 16 25 50 4224.12 -30.77 192.95 247.48 55.23 17 36 15 3624.1 -35.09 185.33
 126.70 0 8 39 2815.33 -30.76 83.79 247.47 55.22 0 55 34 2215.3 -35.08 76.18
 53.30 16 25 50 4224.12 -30.77 192.95 247.48 55.23 17 36 15 3624.1 -35.09 185.33
 126.70 0 8 39 2815.33 -30.76 83.79 247.47 55.22 0 55 34 2215.3 -35.08 76.18
 53.30 16 25 50 4224.12 -30.77 192.95 247.48 55.23 17 36 15 3624.1 -35.09 185.33
 126.70 0 8 39 2815.33 -30.76 83.79 247.47 55.22 0 55 34 2215.3 -35.08 76.18

DIFFERENTIAL CORRECTIONS

TDE 1.6000 TRA-1.2488 TC3-3.9333 BAU .9863
 RDE .4215 RRA -.0612 RC3 -.4426 FAU .05407
 FDE 1.0605 FRA -.2317 FC3-2.5113 BSP 14770
 BDE 1.6546 BRA 1.2503 BC3 3.9581 FSP -751

MID-COURSE EXECUTION ACCURACY

SGT 4642.9 SGR 687.1 SG3 226.5
 RRT .8637 RRF .9248 RTF .9346
 SGB 4693.5 R23 .2245 R13 .9368
 SG1 4680.9 SG2 343.5 THA 7.32

ORBIT DETERMINATION ACCURACY

ST 2239.5 SR 560.6 SS 762.3
 CRT .9664 CRS -.9992 CST -.9742
 LSA 2422.3 MSA 207.2 SSA 10.9
 EL1 2304.4 EL2 140.0 ALF 13.65

LAUNCH DATE FEB 20 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 455.731

RL 147.93 LAL .00 LOL 151.19 VL 27.139 GAL -2.44 AZL 85.16 MCA 219.74 SMA 125.47 ECC .18390 INC 4.8384 V1 30.119
 RP 108.58 LAP -3.09 LOP 10.82 VP 37.241 GAP 7.26 AZP 93.72 TAL 190.96 TAP 50.70 RCA 102.39 APO 148.54 V2 34.902
 RC 150.092 GL 33.49 GP -32.08 ZAL 111.68 ZAP 142.25 ETS 308.88 ZAE 125.53 ETE 205.56 ZAC 128.21 ETC 190.08 CLP-158.94

PLANETOCENTRIC CONIC

C3 17.178 VHL 4.145 DLA 44.11 RAL 17.69 RAD 6567.7 VEL 11.771 PTH 2.08 VHP 6.214 DPA -19.74 RAP 43.02 ECC 1.2827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.65 16 46 18 4191.49 -30.90 190.06 249.59 56.80 17 56 10 3591.5 -35.02 182.30
 125.35 0 18 43 2809.96 -30.88 83.39 249.58 56.78 1 5 33 2210.0 -35.01 75.64
 54.65 16 46 18 4191.49 -30.90 190.06 249.59 56.80 17 56 10 3591.5 -35.02 182.30
 125.35 0 18 43 2809.96 -30.88 83.39 249.58 56.78 1 5 33 2210.0 -35.01 75.64
 54.65 16 46 18 4191.49 -30.90 190.06 249.59 56.80 17 56 10 3591.5 -35.02 182.30
 125.35 0 18 43 2809.96 -30.88 83.39 249.58 56.78 1 5 33 2210.0 -35.01 75.64

DIFFERENTIAL CORRECTIONS

TDE 1.5708 TRA-1.1036 TC3-4.3725 BAU 1.0090
 RDE .3945 RRA -.0410 RC3 -.4315 FAU .05355
 FDE 1.0039 FRA -.1286 FC3-2.6989 BSP 15004
 BDE 1.6196 BRA 1.1044 BC3 4.3937 FSP -753

MID-COURSE EXECUTION ACCURACY

SGT 4729.4 SGR 656.9 SG3 228.5
 RRT .8524 RRF .9076 RTF .9314
 SGB 4774.8 R23 .2093 R13 .9332
 SG1 4762.6 SG2 341.0 THA 6.79

ORBIT DETERMINATION ACCURACY

ST 2265.7 SR 545.9 SS 747.0
 CRT .9705 CRS -.9995 CST -.9733
 LSA 2439.1 MSA 200.6 SSA 12.4
 EL1 2327.0 EL2 128.2 ALF 13.20

LAUNCH DATE FEB 20 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 461.576

RL 147.93 LAL .00 LOL 151.19 VL 27.091 GAL -2.12 AZL 85.58 HCA 222.91 SMA 125.17 ECC .18549 INC 4.4208 V1 30.119
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.217 GAP 7.51 AZP 93.24 TAL 189.37 TAP 52.28 RCA 101.95 APO 148.38 V2 34.914
 RC 152.312 GL 31.44 GP -29.82 ZAL 110.10 ZAP 144.57 ETS 309.29 ZAE 126.37 ETE 203.99 ZAC 130.36 ETC 189.58 CLP-159.92

PLANETOCENTRIC CONIC

C3 16.003 VHL 4.000 DLA 43.23 RAL 21.60 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 6.226 DPA -16.92 RAP 43.91 ECC 1.2634
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.86 17 6 42 4162.45 -30.93 187.48 252.00 58.16 18 16 5 3562.4 -34.89 179.61
 124.14 0 29 30 2806.54 -30.92 83.12 251.99 58.14 1 16 17 2206.5 -34.88 75.25
 55.86 17 6 42 4162.45 -30.93 187.48 252.00 58.16 18 16 5 3562.4 -34.89 179.61
 124.14 0 29 30 2806.54 -30.92 83.12 251.99 58.14 1 16 17 2206.5 -34.88 75.25
 55.86 17 6 42 4162.45 -30.93 187.48 252.00 58.16 18 16 5 3562.4 -34.89 179.61
 124.14 0 29 30 2806.54 -30.92 83.12 251.99 58.14 1 16 17 2206.5 -34.88 75.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5438 TRA -.9580 TC3-4.8056 BAU 1.0320 SGT 4818.4 SGR 631.8 SG3 229.0 ST 2285.1 SR 533.8 SS 727.5
 RDE .3725 RRA -.0248 RC3 -.4185 FAU .05266 RRT .8406 RRF .8880 RTF .9294 CRT .9748 CRS -.9994 CST -.9723
 FDE .9430 FRA -.0318 FC3-2.8490 BSP 15298 SGB 4859.7 R23 .1900 R13 .9309 LSA 2449.1 MSA 193.2 SSA 14.0
 BDE 1.5881 BRA .9583 BC3 4.8237 FSP -754 SG1 4847.8 SG2 340.2 THA 6.32 EL1 2343.7 EL2 116.0 ALF 12.86

LAUNCH DATE FEB 20 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 467.410

RL 147.93 LAL .00 LOL 151.19 VL 27.044 GAL -1.78 AZL 85.95 HCA 226.09 SMA 124.87 ECC .18723 INC 4.0499 V1 30.119
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.194 GAP 7.75 AZP 92.81 TAL 187.76 TAP 53.85 RCA 101.49 APO 148.24 V2 34.926
 RC 154.516 GL 29.47 GP -27.81 ZAL 108.23 ZAP 146.70 ETS 309.58 ZAE 127.05 ETE 202.56 ZAC 132.50 ETC 189.11 CLP-160.90

PLANETOCENTRIC CONIC

C3 15.055 VHL 3.880 DLA 42.43 RAL 25.61 RAD 6567.6 VEL 11.681 PTH 2.05 VHP 6.263 DPA -14.33 RAP 44.98 ECC 1.2478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.98 17 27 17 4136.26 -30.90 185.13 254.71 59.35 18 36 13 3536.3 -34.71 177.18
 123.02 0 40 54 2805.16 -30.89 82.97 254.70 59.34 1 27 39 2205.2 -34.70 75.02
 56.98 17 27 17 4136.26 -30.90 185.13 254.71 59.35 18 36 13 3536.3 -34.71 177.18
 123.02 0 40 54 2805.16 -30.89 82.97 254.70 59.34 1 27 39 2205.2 -34.70 75.02
 56.98 17 27 17 4136.26 -30.90 185.13 254.71 59.35 18 36 13 3536.3 -34.71 177.18
 123.02 0 40 54 2805.16 -30.89 82.97 254.70 59.34 1 27 39 2205.2 -34.70 75.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5191 TRA -.8066 TC3-5.2205 BAU 1.0538 SGT 4903.9 SGR 611.1 SG3 228.1 ST 2298.1 SR 524.5 SS 705.2
 RDE .3551 RRA -.0104 RC3 -.4035 FAU .05140 RRT .8270 RRF .8664 RTF .9277 CRT .9794 CRS -.9986 CST -.9711
 FDE .8810 FRA .0621 FC3-2.9556 BSP 15587 SGB 4941.8 R23 .1698 R13 .9290 LSA 2453.4 MSA 185.8 SSA 15.6
 BDE 1.5601 BRA .8067 BC3 5.2361 FSP -751 SG1 4930.0 SG2 341.8 THA 5.91 EL1 2354.9 EL2 103.5 ALF 12.62

LAUNCH DATE FEB 20 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 473.232

RL 147.93 LAL .00 LOL 151.19 VL 26.998 GAL -1.43 AZL 86.28 HCA 229.27 SMA 124.57 ECC .18915 INC 3.7164 V1 30.119
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.172 GAP 8.00 AZP 92.43 TAL 186.14 TAP 55.41 RCA 101.01 APO 148.13 V2 34.938
 RC 156.704 GL 27.56 GP -26.04 ZAL 106.09 ZAP 148.64 ETS 309.76 ZAE 127.61 ETE 201.26 ZAC 134.65 ETC 188.67 CLP-161.87

PLANETOCENTRIC CONIC

C3 14.294 VHL 3.781 DLA 41.68 RAL 29.72 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 6.322 DPA -11.95 RAP 46.19 ECC 1.2352
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.04 17 48 11 4112.49 -30.80 182.99 257.70 60.41 18 56 44 3512.5 -34.48 174.96
 121.96 0 52 51 2805.85 -30.79 82.96 257.69 60.40 1 39 37 2205.9 -34.47 74.94
 58.04 17 48 11 4112.49 -30.80 182.99 257.70 60.41 18 56 44 3512.5 -34.48 174.96
 121.96 0 52 51 2805.85 -30.79 82.96 257.69 60.40 1 39 37 2205.9 -34.47 74.94
 58.04 17 48 11 4112.49 -30.80 182.99 257.70 60.41 18 56 44 3512.5 -34.48 174.96
 121.96 0 52 51 2805.85 -30.79 82.96 257.69 60.40 1 39 37 2205.9 -34.47 74.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4938 TRA -.6493 TC3-5.6130 BAU 1.0752 SGT 4987.4 SGR 594.8 SG3 226.2 ST 2301.6 SR 517.3 SS 679.9
 RDE .3413 RRA -.0025 RC3 -.3882 FAU .04990 RRT .8125 RRF .8435 RTF .9267 CRT .9839 CRS -.9967 CST -.9697
 FDE .8178 FRA .1518 FC3-3.0225 BSP 15888 SGB 5022.7 R23 .1493 R13 .9277 LSA 2448.5 MSA 178.3 SSA 17.4
 BDE 1.5323 BRA .6493 BC3 5.6264 FSP -747 SG1 5010.8 SG2 345.1 THA 5.56 EL1 2357.3 EL2 90.3 ALF 12.49

LAUNCH DATE FEB 20 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 479.040

RL 147.93 LAL .00 LOL 151.19 VL 26.951 GAL -1.07 AZL 86.59 HCA 232.45 SMA 124.28 ECC .19123 INC 3.4131 V1 30.119
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.150 GAP 8.26 AZP 92.08 TAL 184.52 TAP 56.96 RCA 100.51 APO 148.04 V2 34.951
 RC 158.875 GL 25.69 GP -24.46 ZAL 103.69 ZAP 150.42 ETS 309.80 ZAE 128.07 ETE 200.08 ZAC 136.80 ETC 188.24 CLP-162.83

PLANETOCENTRIC CONIC

C3 13.694 VHL 3.701 DLA 40.95 RAL 33.95 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 6.397 DPA -9.76 RAP 47.54 ECC 1.2254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.08 18 9 35 4090.57 -30.63 180.97 260.96 61.36 19 17 46 3490.6 -34.18 172.90
 120.92 1 5 13 2808.94 -30.61 83.12 260.95 61.35 1 52 2 2208.9 -34.17 75.05
 59.08 18 9 35 4090.57 -30.63 180.97 260.96 61.36 19 17 46 3490.6 -34.18 172.90
 120.92 1 5 13 2808.94 -30.61 83.12 260.95 61.35 1 52 2 2208.9 -34.17 75.05
 59.08 18 9 35 4090.57 -30.63 180.97 260.96 61.36 19 17 46 3490.6 -34.18 172.90
 120.92 1 5 13 2808.94 -30.61 83.12 260.95 61.35 1 52 2 2208.9 -34.17 75.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4664 TRA -.4847 TC3-5.9691 BAU 1.0949 SGT 5065.5 SGR 581.8 SG3 223.2 ST 2293.7 SR 512.0 SS 652.0
 RDE .3306 RRA .0146 RC3 -.3715 FAU .04814 RRT .7964 RRF .8196 RTF .9259 CRT .9882 CRS -.9934 CST -.9678
 FDE .7547 FRA .2378 FC3-3.0432 BSP 16162 SGB 5098.8 R23 .1300 R13 .9268 LSA 2432.8 MSA 171.2 SSA 19.4
 BDE 1.5032 BRA .4849 BC3 5.9806 FSP -737 SG1 5086.7 SG2 350.4 THA 5.25 EL1 2348.9 EL2 76.6 ALF 12.45

LAUNCH DATE FEB 20 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 484.836

RL 147.93 LAL .00 LOL 151.19 VL 26.905 GAL -.69 AZL 86.87 HCA 235.63 SMA 123.99 ECC .19351 INC 3.1345 V1 30.119
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.128 GAP 8.52 AZP 91.77 TAL 182.88 TAP 58.51 RCA 99.99 APO 147.98 V2 34.964
 RC 161.027 GL 23.85 GP -23.05 ZAL 101.07 ZAP 152.07 ETS 309.72 ZAE 128.45 ETE 199.01 ZAC 138.97 ETC 187.84 CLP-163.78

PLANETOCENTRIC CONIC

C3 13.240 VHL 3.639 OLA 40.23 RAL 38.29 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 6.489 DPA -7.73 RAP 49.00 ECC 1.2179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.14 18 31 38 4069.97 -30.36 179.05 264.48 62.23 19 39 28 3470.0 -33.81 170.95
 119.86 1 17 47 2814.85 -30.35 83.46 264.47 62.22 2 4 41 2214.8 -33.80 75.35
 60.14 18 31 38 4069.97 -30.36 179.05 264.48 62.23 19 39 28 3470.0 -33.81 170.95
 119.86 1 17 47 2814.85 -30.35 83.46 264.47 62.22 2 4 41 2214.8 -33.80 75.35
 60.14 18 31 38 4069.97 -30.36 179.05 264.48 62.23 19 39 28 3470.0 -33.81 170.95
 119.86 1 17 47 2814.85 -30.35 83.46 264.47 62.22 2 4 41 2214.8 -33.80 75.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4366 TRA -.3099 TC3-6.2768 BAU 1.1128 SGT 5137.2 SGR 572.2 SG3 210.6 ST 2274.4 SR 508.1 SS 622.7
 RDE .3225 RRA .0266 RC3 -.3543 FAU .04619 RRT .7796 RRF .7956 RTF .9255 CRT .9922 CRS -.9881 CST -.9653
 FDE .6927 FRA .3213 FC3-3.0204 BSP 16357 SGB 5168.9 R23 .1127 R13 .9262 LSA 2406.5 MSA 164.9 SSA 21.4
 BDE 1.4724 BRA .3110 BC3 6.2868 FSP -720 SG1 5156.6 SG2 357.0 THA 4.99 EL1 2329.7 EL2 62.0 ALF 12.51

LAUNCH DATE FEB 20 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 490.616

RL 147.93 LAL .00 LOL 151.19 VL 26.858 GAL -.30 AZL 87.12 HCA 238.82 SMA 123.70 ECC .19598 INC 2.8762 V1 30.119
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.107 GAP 8.79 AZP 91.49 TAL 181.23 TAP 60.05 RCA 99.46 APO 147.94 V2 34.977
 RC 163.161 GL 22.02 GP -21.80 ZAL 98.24 ZAP 153.59 ETS 309.51 ZAE 128.77 ETE 198.05 ZAC 141.15 ETC 187.45 CLP-164.72

PLANETOCENTRIC CONIC

C3 12.919 VHL 3.594 OLA 39.48 RAL 42.72 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.593 DPA -5.85 RAP 50.56 ECC 1.2126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.26 18 54 27 4050.13 -30.01 177.16 268.22 63.04 20 1 57 3450.1 -33.36 169.04
 118.74 1 30 18 2824.11 -29.99 84.03 268.22 63.03 2 17 22 2224.1 -33.35 75.91
 61.26 18 54 27 4050.13 -30.01 177.16 268.22 63.04 20 1 57 3450.1 -33.36 169.04
 118.74 1 30 18 2824.11 -29.99 84.03 268.22 63.03 2 17 22 2224.1 -33.35 75.91
 61.26 18 54 27 4050.13 -30.01 177.16 268.22 63.04 20 1 57 3450.1 -33.36 169.04
 118.74 1 30 18 2824.11 -29.99 84.03 268.22 63.03 2 17 22 2224.1 -33.35 75.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3975 TRA -.1319 TC3-6.5435 BAU 1.1317 SGT 5211.9 SGR 564.9 SG3 215.7 ST 2233.7 SR 504.0 SS 588.1
 RDE .3158 RRA .0372 RC3 -.3400 FAU .04434 RRT .7643 RRF .7720 RTF .9266 CRT .9954 CRS -.9801 CST -.9621
 FDE .6279 FRA .3953 FC3-2.9715 BSP 16647 SGB 5242.4 R23 .0936 R13 .9272 LSA 2358.7 MSA 158.7 SSA 23.5
 BDE 1.4328 BRA .1370 BC3 6.5523 FSP -711 SG1 5229.8 SG2 363.0 THA 4.76 EL1 2289.4 EL2 47.0 ALF 12.67

LAUNCH DATE FEB 20 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 496.379

RL 147.93 LAL .00 LOL 151.19 VL 26.812 GAL .10 AZL 87.37 HCA 242.01 SMA 123.42 ECC .19867 INC 2.6345 V1 30.119
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.086 GAP 9.07 AZP 91.24 TAL 179.58 TAP 61.59 RCA 98.90 APO 147.93 V2 34.990
 RC 165.276 GL 20.21 GP -20.67 ZAL 95.24 ZAP 155.01 ETS 309.15 ZAE 129.04 ETE 197.18 ZAC 143.34 ETC 187.06 CLP-165.64

PLANETOCENTRIC CONIC

C3 12.728 VHL 3.568 OLA 38.68 RAL 47.22 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.710 DPA -4.10 RAP 52.21 ECC 1.2095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.47 19 18 9 4030.49 -29.54 175.25 272.18 63.80 20 25 19 3430.5 -32.80 167.13
 117.53 1 42 30 2837.34 -29.53 84.87 272.17 63.79 2 29 48 2237.3 -32.79 76.74
 62.47 19 18 9 4030.49 -29.54 175.25 272.18 63.80 20 25 19 3430.5 -32.80 167.13
 117.53 1 42 30 2837.34 -29.53 84.87 272.17 63.79 2 29 48 2237.3 -32.79 76.74
 62.47 19 18 9 4030.49 -29.54 175.25 272.18 63.80 20 25 19 3430.5 -32.80 167.13
 117.53 1 42 30 2837.34 -29.53 84.87 272.17 63.79 2 29 48 2237.3 -32.79 76.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3566 TRA .0619 TC3-6.7231 BAU 1.1453 SGT 5270.2 SGR 559.8 SG3 210.3 ST 2183.8 SR 502.3 SS 558.1
 RDE .3122 RRA .0496 RC3 -.3186 FAU .04192 RRT .7442 RRF .7489 RTF .9258 CRT .9977 CRS -.9682 CST -.9579
 FDE .5698 FRA .4736 FC3-2.8512 BSP 16790 SGB 5299.9 R23 .0846 R13 .9263 LSA 2303.8 MSA 156.1 SSA 25.6
 BDE 1.3921 BRA .0793 BC3 6.7307 FSP -693 SG1 5286.8 SG2 372.8 THA 4.54 EL1 2240.6 EL2 33.3 ALF 12.93

LAUNCH DATE FEB 20 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 502.125

RL 147.93 LAL .00 LOL 151.19 VL 26.767 GAL .52 AZL 87.59 HCA 245.20 SMA 123.14 ECC .20158 INC 2.4066 V1 30.119
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.066 GAP 9.36 AZP 91.01 TAL 177.92 TAP 63.12 RCA 98.31 APO 147.96 V2 35.003
 RC 167.370 GL 18.41 GP -19.66 ZAL 92.08 ZAP 156.33 ETS 308.65 ZAE 129.28 ETE 196.40 ZAC 145.55 ETC 186.67 CLP-166.55

PLANETOCENTRIC CONIC

C3 12.664 VHL 3.559 OLA 37.83 RAL 51.77 RAD 6567.5 VEL 11.578 PTH 2.02 VHP 6.839 DPA -2.47 RAP 53.94 ECC 1.2084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.80 19 42 50 4010.42 -28.97 173.28 276.31 64.53 20 49 41 3410.4 -32.14 165.16
 116.20 1 54 4 2855.27 -28.96 86.02 276.30 64.52 2 41 39 2255.3 -32.13 77.91
 63.80 19 42 50 4010.42 -28.97 173.28 276.31 64.53 20 49 41 3410.4 -32.14 165.16
 116.20 1 54 4 2855.27 -28.96 86.02 276.30 64.52 2 41 39 2255.3 -32.13 77.91
 63.80 19 42 50 4010.42 -28.97 173.28 276.31 64.53 20 49 41 3410.4 -32.14 165.16
 116.20 1 54 4 2855.27 -28.96 86.02 276.30 64.52 2 41 39 2255.3 -32.13 77.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2934 TRA -.2574 TC3-6.8671 BAU 1.1638 SGT 5338.5 SGR 554.8 SG3 205.8 ST 2093.5 SR 496.4 SS 515.2
 RDE .3074 RRA .0610 RC3 -.3058 FAU .04008 RRT .7292 RRF .7266 RTF .9270 CRT .9984 CRS -.9492 CST -.9508
 FDE .4996 FRA .5423 FC3-2.7400 BSP 17107 SGB 5367.3 R23 .0690 R13 .9274 LSA 2206.7 MSA 155.6 SSA 27.5
 BDE 1.3294 BRA .2645 BC3 6.8739 FSP -678 SG1 5353.9 SG2 378.6 THA 4.36 EL1 2151.3 EL2 27.5 ALF 13.32

LAUNCH DATE FEB 20 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 26.722 GAL .96 AZL 87.81 MCA 248.40 SMA 122.86 ECC .20475 INC 2.1900 VI 30.119
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.046 GAP 9.66 AZP 90.81 TAL 176.26 TAP 64.66 RCA 97.70 APO 148.01 V2 35.016
 RC 169.445 GL 16.63 GP -18.75 ZAL 88.81 ZAP 157.56 ETS 308.00 ZAE 129.48 ETE 195.70 ZAC 147.78 ETC 186.27 CLP-167.45

PLANETOCENTRIC CONIC
 C3 12.730 VHL 3.568 OLA 36.90 RAL 56.32 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.979 DPA -.95 RAP 55.74 ECC 1.2095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.28 20 8 36 3989.25 -28.27 171.18 280.58 65.23 21 15 5 3389.2 -31.36 163.09
 114.72 2 4 36 2878.66 -28.26 87.56 280.58 65.22 2 52 35 2278.7 -31.35 79.47
 65.28 20 8 36 3989.25 -28.27 171.18 280.58 65.23 21 15 5 3389.2 -31.36 163.09
 114.72 2 4 36 2878.66 -28.26 87.56 280.58 65.22 2 52 35 2278.7 -31.35 79.47
 65.28 20 8 36 3989.25 -28.27 171.18 280.58 65.23 21 15 5 3389.2 -31.36 163.09
 114.72 2 4 36 2878.66 -28.26 87.56 280.58 65.22 2 52 35 2278.7 -31.35 79.47

DIFFERENTIAL CORRECTIONS
 TDE 1.2296 TRA .4685 TC3-6.9129 BAU 1.1775 SGT 5396.1 SGR 552.5 SG3 200.7 ST 2000.1 SR 492.7 SS 480.3
 RDE .3056 RRA .0735 RC3 -.2896 FAU .03798 RRT .7135 RRF .7070 RTF .9282 CRT .9968 CRS -.9229 CST -.9432
 FDE .4385 FRA .6107 FC3-2.5829 BSP 17260 SGB 5424.3 R23 .0589 R13 .9286 LSA 2108.9 MSA 159.2 SSA 28.8
 BDE 1.2670 BRA .4742 BC3 6.9190 FSP -660 SG1 5410.6 SG2 386.1 THA 4.20 EL1 2059.5 EL2 38.5 ALF 13.80

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 20 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 26.677 GAL 1.42 AZL 88.02 MCA 251.60 SMA 122.59 ECC .20817 INC 1.9825 VI 30.119
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.026 GAP 9.96 AZP 90.63 TAL 174.59 TAP 66.19 RCA 97.07 APO 148.11 V2 35.030
 RC 171.498 GL 14.87 GP -17.93 ZAL 85.45 ZAP 158.71 ETS 307.19 ZAE 129.66 ETE 195.06 ZAC 150.02 ETC 185.86 CLP-168.33

PLANETOCENTRIC CONIC
 C3 12.930 VHL 3.596 OLA 35.90 RAL 60.84 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 7.131 DPA .47 RAP 57.62 ECC 1.2128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.95 20 35 35 3966.05 -27.46 168.90 284.97 65.91 21 41 41 3366.1 -30.47 160.84
 113.05 2 13 40 2908.54 -27.45 89.55 284.96 65.90 3 2 9 2308.5 -30.46 81.49
 66.95 20 35 35 3966.05 -27.46 168.90 284.97 65.91 21 41 41 3366.1 -30.47 160.84
 113.05 2 13 40 2908.54 -27.45 89.55 284.96 65.90 3 2 9 2308.5 -30.46 81.49
 66.95 20 35 35 3966.05 -27.46 168.90 284.97 65.91 21 41 41 3366.1 -30.47 160.84
 113.05 2 13 40 2908.54 -27.45 89.55 284.96 65.90 3 2 9 2308.5 -30.46 81.49

DIFFERENTIAL CORRECTIONS
 TDE 1.1491 TRA .6854 TC3-6.8922 BAU 1.1923 SGT 5453.2 SGR 549.5 SG3 195.4 ST 1880.9 SR 486.8 SS 441.9
 RDE .3038 RRA .0859 RC3 -.2748 FAU .03600 RRT .6987 RRF .6876 RTF .9300 CRT .9914 CRS -.8834 CST -.9322
 FDE .3734 FRA .6732 FC3-2.4107 BSP 17491 SGB 5480.8 R23 .0482 R13 .9303 LSA 1985.2 MSA 168.3 SSA 29.3
 BDE 1.1885 BRA .6907 BC3 6.8976 FSP -645 SG1 5466.8 SG2 392.2 THA 4.05 EL1 1941.9 EL2 61.7 ALF 14.40

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 20 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 26.632 GAL 1.89 AZL 88.22 MCA 254.80 SMA 122.32 ECC .21188 INC 1.7825 VI 30.119
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.006 GAP 10.29 AZP 90.47 TAL 172.93 TAP 67.72 RCA 96.40 APO 148.24 V2 35.043
 RC 173.532 GL 13.14 GP -17.19 ZAL 82.04 ZAP 159.79 ETS 306.21 ZAE 129.82 ETE 194.48 ZAC 152.27 ETC 185.41 CLP-169.20

PLANETOCENTRIC CONIC
 C3 13.271 VHL 3.643 OLA 34.83 RAL 65.29 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 7.294 DPA 1.80 RAP 59.55 ECC 1.2184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.82 21 3 58 3939.79 -26.54 166.36 289.43 66.57 22 9 38 3339.8 -29.47 158.35
 111.18 2 20 49 2946.07 -26.53 92.06 289.43 66.56 3 9 55 2346.1 -29.46 84.05
 68.82 21 3 58 3939.79 -26.54 166.36 289.43 66.57 22 9 38 3339.8 -29.47 158.35
 111.18 2 20 49 2946.07 -26.53 92.06 289.43 66.56 3 9 55 2346.1 -29.46 84.05
 68.82 21 3 58 3939.79 -26.54 166.36 289.43 66.57 22 9 38 3339.8 -29.47 158.35
 111.18 2 20 49 2946.07 -26.53 92.06 289.43 66.56 3 9 55 2346.1 -29.46 84.05

DIFFERENTIAL CORRECTIONS
 TDE 1.0579 TRA .9144 TC3-6.7892 BAU 1.2055 SGT 5505.1 SGR 546.7 SG3 189.8 ST 1751.2 SR 480.1 SS 407.5
 RDE .3031 RRA .0992 RC3 -.2588 FAU .03398 RRT .6840 RRF .6697 RTF .9315 CRT .9800 CRS -.8268 CST -.9185
 FDE .3099 FRA .7344 FC3-2.2169 BSP 17694 SGB 5532.2 R23 .0400 R13 .9317 LSA 1851.6 MSA 184.6 SSA 28.9
 BDE 1.1005 BRA .9197 BC3 6.7941 FSP -629 SG1 5517.9 SG2 397.9 THA 3.91 EL1 1813.5 EL2 92.3 ALF 15.08

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 20 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC
 RL 147.93 LAL .00 LOL 151.19 VL 26.588 GAL 2.39 AZL 88.41 MCA 258.00 SMA 122.05 ECC .21590 INC 1.5884 VI 30.119
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.987 GAP 10.62 AZP 90.33 TAL 171.26 TAP 69.26 RCA 95.70 APO 148.41 V2 35.056
 RC 175.544 GL 11.45 GP -16.51 ZAL 78.60 ZAP 160.80 ETS 305.04 ZAE 129.96 ETE 193.96 ZAC 154.54 ETC 184.91 CLP-170.06

PLANETOCENTRIC CONIC
 C3 13.765 VHL 3.710 OLA 33.68 RAL 69.64 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 7.470 DPA 3.04 RAP 61.54 ECC 1.2265
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.95 21 34 0 3909.10 -25.51 163.47 293.95 67.21 22 39 9 3309.1 -28.36 155.51
 109.05 2 25 28 2992.67 -25.49 95.22 293.94 67.20 3 15 21 2392.7 -28.35 87.25
 70.95 21 34 0 3909.10 -25.51 163.47 293.95 67.21 22 39 9 3309.1 -28.36 155.51
 109.05 2 25 28 2992.67 -25.49 95.22 293.94 67.20 3 15 21 2392.7 -28.35 87.25
 110.00 3 15 28 2839.77 -29.15 84.88 295.50 71.30 4 2 48 2239.8 -31.42 76.41
 110.00 1 47 7 3109.98 -21.96 102.55 292.13 63.12 2 38 57 2510.0 -25.38 95.07

DIFFERENTIAL CORRECTIONS
 TDE .9591 TRA 1.1579 TC3-6.5997 BAU 1.2153 SGT 5549.2 SGR 544.3 SG3 184.2 ST 1622.0 SR 473.2 SS 380.3
 RDE .3036 RRA .1135 RC3 -.2412 FAU .03190 RRT .6700 RRF .6538 RTF .9328 CRT .9590 CRS -.7509 CST -.9041
 FDE .2502 FRA .7951 FC3-2.0061 BSP 17804 SGB 5575.8 R23 .0343 R13 .9330 LSA 1719.0 MSA 208.6 SSA 27.7
 BDE 1.0060 BRA 1.1634 BC3 6.6041 FSP -609 SG1 5561.2 SG2 403.2 THA 3.78 EL1 1684.6 EL2 129.1 ALF 15.72

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 20 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 530.518

RL 147.93 LAL .00 LOL 151.19 VL 26.544 GAL 2.91 AZL 88.60 HCA 261.21 SMA 121.79 ECC .22026 INC 1.3987 V1 30.119
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.968 GAP 10.98 AZP 90.21 TAL 169.60 TAP 70.81 RCA 94.97 APO 148.62 V2 35.069
 RC 177.535 GL 9.81 GP -15.90 ZAL 75.19 ZAP 161.75 ETS 303.69 ZAE 130.09 ETE 193.49 ZAC 156.81 ETC 184.35 CLP-170.92

PLANETOCENTRIC CONIC

C3 14.424 VHL 3.798 DLA 32.48 RAL 73.85 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 7.658 DPA 4.20 RAP 63.59 ECC 1.2374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.38 22 6 16 3871.71 -24.38 160.08 298.48 67.84 23 10 47 3271.7 -27.17 152.17
 106.62 2 26 49 3050.65 -24.37 99.17 298.48 67.83 3 17 40 2450.6 -27.16 91.26
 73.38 22 6 16 3871.71 -24.38 160.08 298.48 67.84 23 10 47 3271.7 -27.17 152.17
 106.62 2 26 49 3050.65 -24.37 99.17 298.48 67.83 3 17 40 2450.6 -27.16 91.26
 110.00 4 9 22 2734.33 -31.22 77.36 301.05 75.31 4 54 56 2134.3 -32.92 68.55
 110.00 1 26 50 3236.03 -17.89 110.07 295.10 60.37 2 20 46 2636.0 -21.69 103.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8453 TRA 1.4087 TC3-6.3557 BAU 1.2264
 RDE .3045 RRA .1280 RC3 -.2251 FAU .03000
 FDE .1894 FRA .8511 FC3-1.8004 BSP 18003
 BOE .8984 BRA 1.4145 BC3 6.3597 FSP -595

SGT 5592.8 SGR 540.9 SG3 178.5
 RRT .6571 RRF .6384 RTF .9347
 SGB 5618.9 R23 .0277 R13 .9349
 SG1 5604.1 SG2 406.9 THA 3.66

ST 1489.4 SR 464.5 SS 357.4
 CRT .9228 CRS -.6488 CST -.8892
 LSA 1582.2 MSA 240.3 SSA 26.1
 EL1 1550.6 EL2 171.9 ALF 16.26

LAUNCH DATE FEB 20 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 536.110

RL 147.93 LAL .00 LOL 151.19 VL 26.501 GAL 3.45 AZL 88.79 HCA 264.42 SMA 121.54 ECC .22499 INC 1.2121 V1 30.119
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.950 GAP 11.35 AZP 90.12 TAL 167.94 TAP 72.36 RCA 94.19 APO 148.88 V2 35.083
 RC 179.506 GL 8.23 GP -15.34 ZAL 71.81 ZAP 162.64 ETS 302.12 ZAE 130.21 ETE 193.06 ZAC 159.10 ETC 183.69 CLP-171.77

PLANETOCENTRIC CONIC

C3 15.265 VHL 3.907 DLA 31.24 RAL 77.90 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 7.860 DPA 5.28 RAP 65.68 ECC 1.2512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.22 22 41 46 3823.85 -23.18 155.92 303.02 68.45 23 45 30 3223.8 -25.90 148.06
 103.78 2 23 39 3123.79 -23.17 104.20 303.01 68.43 3 15 42 2523.8 -25.89 96.35
 76.22 22 41 46 3823.85 -23.18 155.92 303.02 68.45 23 45 30 3223.8 -25.90 148.06
 103.78 2 23 39 3123.79 -23.17 104.20 303.01 68.43 3 15 42 2523.8 -25.89 96.35
 110.00 4 50 53 2665.59 -32.29 72.30 306.11 78.13 5 35 19 2065.6 -33.59 63.30
 110.00 1 17 38 3330.04 -14.64 115.42 298.55 58.76 2 13 8 2730.0 -18.67 108.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .7224 TRA 1.6732 TC3-6.0507 BAU 1.2355
 RDE .3062 RRA .1433 RC3 -.2082 FAU .02810
 FDE .1315 FRA .9067 FC3-1.5937 BSP 18169
 BOE .7847 BRA 1.6793 BC3 6.0543 FSP -579

SGT 5631.4 SGR 537.2 SG3 172.9
 RRT .6447 RRF .6244 RTF .9364
 SGB 5657.0 R23 .0228 R13 .9365
 SG1 5642.1 SG2 409.8 THA 3.54

ST 1372.5 SR 455.1 SS 343.7
 CRT .8644 CRS -.5259 CST -.8798
 LSA 1459.7 MSA 278.6 SSA 24.3
 EL1 1429.2 EL2 219.8 ALF 16.39

LAUNCH DATE FEB 20 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 541.664

RL 147.93 LAL .00 LOL 151.19 VL 26.458 GAL 4.02 AZL 88.97 HCA 267.63 SMA 121.28 ECC .23011 INC 1.0273 V1 30.119
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.931 GAP 11.74 AZP 90.04 TAL 166.29 TAP 73.92 RCA 93.38 APO 149.19 V2 35.095
 RC 181.455 GL 6.73 GP -14.83 ZAL 68.52 ZAP 163.47 ETS 300.34 ZAE 130.31 ETE 192.67 ZAC 161.39 ETC 182.89 CLP-172.61

PLANETOCENTRIC CONIC

C3 16.307 VHL 4.038 DLA 29.97 RAL 81.77 RAD 6567.7 VEL 11.734 PTH 2.07 VHP 8.076 DPA 6.29 RAP 67.81 ECC 1.2684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.75 23 23 3 3756.82 -21.92 150.37 307.54 69.04 24 25 40 3156.8 -24.57 142.57
 100.25 2 13 13 3220.74 -21.90 110.93 307.53 69.02 3 6 54 2620.7 -24.56 103.13
 79.75 23 23 3 3756.82 -21.92 150.37 307.54 69.04 24 25 40 3156.8 -24.57 142.57
 100.25 2 13 13 3220.74 -21.90 110.93 307.53 69.02 3 6 54 2620.7 -24.56 103.13
 110.00 5 26 55 2612.63 -32.97 68.31 310.93 80.40 6 10 28 2012.6 -33.94 59.21
 110.00 1 12 27 3412.93 -11.67 120.00 302.17 57.64 2 9 20 2812.9 -15.86 113.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .5905 TRA 1.9511 TC3-5.6979 BAU 1.2429
 RDE .3088 RRA .1592 RC3 -.1910 FAU .02624
 FDE .0757 FRA .9610 FC3-1.3929 BSP 18327
 BOE .6663 BRA 1.9576 BC3 5.7010 FSP -563

SGT 5664.8 SGR 532.6 SG3 167.4
 RRT .6330 RRF .6113 RTF .9381
 SGB 5689.8 R23 .0186 R13 .9382
 SG1 5674.9 SG2 411.6 THA 3.42

ST 1280.6 SR 445.0 SS 338.7
 CRT .7767 CRS -.3895 CST -.8804
 LSA 1360.1 MSA 320.0 SSA 22.6
 EL1 1328.5 EL2 270.2 ALF 15.77

LAUNCH DATE FEB 20 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 547.176

RL 147.93 LAL .00 LOL 151.19 VL 26.415 GAL 4.62 AZL 89.16 HCA 270.84 SMA 121.04 ECC .23567 INC .8433 V1 30.119
 RP 107.94 LAP -.84 LOP 62.03 VP 36.913 GAP 12.16 AZP 89.99 TAL 164.65 TAP 75.49 RCA 92.51 APO 149.56 V2 35.108
 RC 183.384 GL 5.30 GP -14.37 ZAL 65.31 ZAP 164.24 ETS 298.31 ZAE 130.41 ETE 192.31 ZAC 163.68 ETC 181.88 CLP-173.45

PLANETOCENTRIC CONIC

C3 17.576 VHL 4.192 DLA 28.68 RAL 85.44 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 8.308 DPA 7.22 RAP 69.98 ECC 1.2893
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.22 0 24 58 3634.82 -20.61 140.83 312.03 69.60 1 25 33 3034.8 -23.21 133.09
 94.78 1 44 31 3377.23 -20.60 121.96 312.02 69.59 2 40 49 2777.2 -23.20 114.22
 100.00 3 37 22 3014.28 -26.31 97.16 313.99 75.27 4 27 36 2414.3 -28.07 88.80
 100.00 1 14 49 3473.00 -15.12 126.53 309.55 63.90 2 12 42 2873.0 -18.50 119.37
 110.00 5 59 16 2570.00 -33.40 65.06 315.61 82.28 6 42 6 1970.0 -34.11 55.89
 110.00 1 9 24 3490.04 -8.82 124.16 305.89 56.84 2 7 34 2890.0 -13.13 117.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .4538 TRA 2.2465 TC3-5.3036 BAU 1.2469
 RDE .3124 RRA .1759 RC3 -.1730 FAU .02436
 FDE .0243 FRA 1.0161 FC3-1.1998 BSP 18385
 BOE .5509 BRA 2.2534 BC3 5.3065 FSP -544

SGT 5692.8 SGR 527.7 SG3 162.1
 RRT .6222 RRF .6000 RTF .9396
 SGB 5717.2 R23 .0157 R13 .9397
 SG1 5702.3 SG2 412.4 THA 3.32

ST 1226.7 SR 434.8 SS 342.4
 CRT .6594 CRS -.2571 CST -.8941
 LSA 1297.0 MSA 358.4 SSA 20.9
 EL1 1262.1 EL2 317.7 ALF 14.06

LAUNCH DATE FEB 20 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 552.638

RL 147.93 LAL .00 LOL 151.19 VL 26.373 GAL 5.25 AZL 89.34 HCA 274.06 SMA 120.79 ECC .24171 INC .6588 V1 30.119
 RP 107.90 LAP -.66 LOP 65.24 VP 36.894 GAP 12.60 AZP 89.95 TAL 163.02 TAP 77.08 RCA 91.59 APO 149.99 V2 35.120
 RC 185.291 GL 3.96 GP -13.94 ZAL 62.23 ZAP 164.95 ETS 296.04 ZAE 130.49 ETE 191.98 ZAC 165.98 ETC 180.57 CLP-174.29

PLANETOCENTRIC CONIC

C3 19.100 VHL 4.370 OLA 27.40 RAL 88.91 RAD 6567.8 VEL 11.852 PTH 2.10 VHP 8.558 DPA 8.08 RAP 72.18 ECC 1.3143
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 21 41 3319.73 -24.21 119.01 318.15 74.85 3 17 1 2719.7 -26.06 110.83
 90.00 0 15 28 3731.24 -14.49 145.21 314.43 65.40 1 17 39 3131.2 -17.69 138.00
 100.00 4 22 3 2931.75 -27.60 91.37 319.06 78.05 5 10 54 2331.7 -28.97 82.83
 100.00 0 57 48 3594.45 -11.36 133.59 312.85 62.16 1 57 42 2994.5 -15.00 126.69
 110.00 6 28 42 2535.40 -33.69 62.40 320.19 83.83 7 10 57 1935.4 -34.18 53.19
 110.00 1 7 38 3563.57 -6.07 128.07 309.66 56.29 2 7 2 2963.6 -10.45 121.72

DIFFERENTIAL CORRECTIONS

TDE .3060 TRA 2.5531 TC3-4.8963 BAU 1.2509
 RDE .3165 RRA .1927 RC3 -.1561 FAU .02262
 FDE -.0265 FRA 1.0688 FC3-1.0252 BSP 18529
 BOE .4402 BRA 2.5603 BC3 4.8988 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 5717.6 SGR 521.3 SG3 156.8
 RRT .6117 RRF .5886 RTF .9415
 SGB 5741.3 R23 .0123 R13 .9415
 SG1 5726.5 SG2 411.7 THA 3.21

ORBIT DETERMINATION ACCURACY

ST 1206.9 SR 423.6 SS 351.6
 CRT .5154 CRS -.1297 CST -.9149
 LSA 1268.3 MSA 388.2 SSA 19.5
 EL1 1228.4 EL2 356.7 ALF 11.21

LAUNCH DATE FEB 20 1969

FLIGHT TIME 192.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 558.043

RL 147.93 LAL .00 LOL 151.19 VL 26.332 GAL 5.91 AZL 89.53 HCA 277.28 SMA 120.55 ECC .24829 INC .4728 V1 30.119
 RP 107.87 LAP -.47 LOP 68.46 VP 36.876 GAP 13.07 AZP 89.94 TAL 161.41 TAP 78.69 RCA 90.62 APO 150.48 V2 35.132
 RC 187.175 GL 2.71 GP -13.55 ZAL 59.28 ZAP 165.61 ETS 293.49 ZAE 130.55 ETE 191.68 ZAC 168.26 ETC 178.78 CLP-175.12

PLANETOCENTRIC CONIC

C3 20.914 VHL 4.573 OLA 26.14 RAL 92.17 RAD 6567.8 VEL 11.929 PTH 2.12 VHP 8.827 DPA 8.88 RAP 74.42 ECC 1.3442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 8 53 3227.41 -25.71 112.66 323.25 77.70 4 2 41 2627.4 -27.15 104.29
 90.00 23 50 21 3866.75 -10.51 153.17 317.64 63.55 24 54 47 3266.7 -13.98 146.21
 100.00 4 58 8 2875.22 -28.34 87.32 323.83 80.06 5 46 3 2275.2 -29.42 78.69
 100.00 0 47 43 3694.17 -8.13 139.24 316.38 61.14 1 49 17 3094.2 -11.92 132.50
 110.00 6 55 38 2507.58 -33.87 60.25 324.67 85.09 7 37 25 1907.6 -34.18 51.02
 110.00 1 6 42 3634.58 -3.37 131.80 313.46 55.96 2 7 17 3034.6 -7.82 125.53

DIFFERENTIAL CORRECTIONS

TDE .1513 TRA 2.8761 TC3-4.4777 BAU 1.2526
 RDE .3214 RRA .2100 RC3 -.1393 FAU .02092
 FDE -.0745 FRA 1.1217 FC3 -.8659 BSP 18655
 BOE .3552 BRA 2.8838 BC3 4.4799 FSP -515

MID-COURSE EXECUTION ACCURACY

SGT 5737.6 SGR 514.0 SG3 151.8
 RRT .6017 RRF .5781 RTF .9434
 SGB 5760.6 R23 .0095 R13 .9434
 SG1 5746.0 SG2 410.0 THA 3.10

ORBIT DETERMINATION ACCURACY

ST 1225.2 SR 412.1 SS 365.6
 CRT .3617 CRS -.0191 CST -.9376
 LSA 1281.0 MSA 404.1 SSA 18.2
 EL1 1235.2 EL2 381.1 ALF 7.67

LAUNCH DATE FEB 20 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 563.383

RL 147.93 LAL .00 LOL 151.19 VL 26.291 GAL 6.61 AZL 89.72 HCA 280.50 SMA 120.32 ECC .25545 INC .2840 V1 30.119
 RP 107.83 LAP -.28 LOP 71.68 VP 36.858 GAP 13.57 AZP 89.95 TAL 159.82 TAP 80.31 RCA 89.58 APO 151.05 V2 35.144
 RC 189.037 GL 1.55 GP -13.20 ZAL 56.46 ZAP 166.21 ETS 290.65 ZAE 130.61 ETE 191.40 ZAC 170.53 ETC 176.13 CLP-175.97

PLANETOCENTRIC CONIC

C3 23.061 VHL 4.802 OLA 24.90 RAL 95.22 RAD 6567.9 VEL 12.018 PTH 2.15 VHP 9.118 DPA 9.61 RAP 76.68 ECC 1.3795
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 27 3168.03 -26.50 108.49 328.00 79.64 4 38 15 2568.0 -27.66 100.02
 90.00 23 38 8 3973.39 -7.21 159.27 321.13 62.54 24 44 22 3373.4 -10.83 152.47
 100.00 5 29 16 2833.32 -28.79 84.29 328.42 81.59 6 16 29 2233.3 -29.65 75.60
 100.00 0 40 56 3783.33 -5.17 144.20 320.02 60.52 1 44 0 3183.3 -9.06 137.57
 110.00 7 20 21 2485.77 -33.99 58.55 329.08 86.08 8 1 47 1885.8 -34.15 49.31
 110.00 1 6 21 3703.65 -7.73 135.41 317.26 55.82 2 8 4 3103.7 -5.21 129.18

DIFFERENTIAL CORRECTIONS

TDE -.0097 TRA 3.2167 TC3-4.0577 BAU 1.2516
 RDE .3270 RRA .2274 RC3 -.1231 FAU .01927
 FDE -.1201 FRA 1.1750 FC3 -.7234 BSP 18761
 BOE .3272 BRA 3.2248 BC3 4.0596 FSP -501

MID-COURSE EXECUTION ACCURACY

SGT 5752.6 SGR 505.6 SG3 146.9
 RRT .5919 RRF .5681 RTF .9455
 SGB 5774.8 R23 .0070 R13 .9455
 SG1 5760.5 SG2 407.0 THA 2.99

ORBIT DETERMINATION ACCURACY

ST 1274.8 SR 400.4 SS 382.6
 CRT .2151 CRS .0731 CST -.9571
 LSA 1329.2 MSA 406.0 SSA 17.1
 EL1 1278.0 EL2 390.0 ALF 4.26

LAUNCH DATE FEB 20 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 568.648

RL 147.93 LAL .00 LOL 151.19 VL 26.250 GAL 7.36 AZL 89.91 HCA 283.72 SMA 120.08 ECC .26326 INC .0898 V1 30.119
 RP 107.79 LAP -.09 LOP 74.91 VP 36.840 GAP 14.11 AZP 89.98 TAL 158.25 TAP 81.97 RCA 88.47 APO 151.70 V2 35.155
 RC 190.875 GL .47 GP -12.87 ZAL 53.80 ZAP 166.74 ETS 287.51 ZAE 130.65 ETE 191.13 ZAC 172.77 ETC 171.86 CLP-176.81

PLANETOCENTRIC CONIC

C3 25.592 VHL 5.059 OLA 23.71 RAL 98.07 RAD 6568.0 VEL 12.123 PTH 2.17 VHP 9.432 DPA 10.27 RAP 78.96 ECC 1.4212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 16 26 3125.45 -26.99 105.47 332.56 81.08 5 8 31 2525.4 -27.94 96.93
 90.00 23 29 53 4067.08 -4.24 164.56 324.74 61.98 24 37 41 3467.1 -7.96 157.85
 100.00 5 56 49 2801.78 -29.08 81.99 332.90 82.77 6 43 31 2201.8 -29.78 73.26
 100.00 0 36 7 3865.98 -2.39 148.75 323.71 60.19 1 40 33 3266.0 -6.34 142.19
 110.00 7 43 3 2469.40 -34.05 57.28 333.43 86.83 8 24 13 1869.4 -34.12 48.04
 110.00 1 6 22 3771.12 1.85 138.92 321.07 55.86 2 9 13 3171.1 -2.64 132.72

DIFFERENTIAL CORRECTIONS

TDE -.1730 TRA 3.5807 TC3-3.6391 BAU 1.2456
 RDE .3338 RRA .2451 RC3 -.1070 FAU .01759
 FDE -.1616 FRA 1.2307 FC3 -.5951 BSP 18758
 BOE .3759 BRA 3.5891 BC3 3.6407 FSP -483

MID-COURSE EXECUTION ACCURACY

SGT 5763.1 SGR 496.6 SG3 142.3
 RRT .5827 RRF .5594 RTF .9476
 SGB 5784.4 R23 .0056 R13 .9476
 SG1 5770.4 SG2 403.0 THA 2.89

ORBIT DETERMINATION ACCURACY

ST 1347.7 SR 388.9 SS 401.2
 CRT .0900 CRS .1441 CST -.9717
 LSA 1403.5 MSA 398.0 SSA 16.1
 EL1 1348.2 EL2 387.1 ALF 1.62

LAUNCH DATE FEB 20 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 573.824

RL 147.93 LAL .00 LOL 151.19 VL 26.210 GAL 8.15 AZL 90.11 HCA 286.94 SMA 119.86 ECC .27180 INC .1063 V1 30.119
 RP 107.76 LAP .10 LOP 78.13 VP 36.822 GAP 14.69 AZP 90.03 TAL 156.70 TAP 83.65 RCA 87.28 APO 152.43 V2 35.166
 RC 192.690 GL -.52 GP -12.57 ZAL 51.29 ZAP 167.22 ETS 284.06 ZAE 130.67 ETE 190.89 ZAC 174.93 ETC 163.91 CLP-177.67

PLANETOCENTRIC CONIC

C3 28.569 VHL 5.345 DLA 22.55 RAL 100.72 RAD 6568.1 VEL 12.245 PTH 2.20 VHP 9.773 DPA 10.87 RAP 81.26 ECC 1.4702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 34 3094.23 -27.30 103.24 337.00 82.16 5 35 8 2494.2 -28.10 94.66
 90.00 23 23 55 4152.97 -1.48 169.36 328.40 61.72 24 33 8 3553.0 -5.25 162.71
 100.00 6 21 31 2778.38 -29.27 80.28 337.28 83.65 7 7 50 2178.4 -29.84 71.52
 100.00 0 32 35 3944.05 .26 153.04 327.44 60.11 1 38 19 3344.1 -3.72 146.51
 110.00 8 3 55 2458.03 -34.09 56.39 337.73 87.36 8 44 53 1858.0 -34.08 47.15
 110.00 1 6 40 3837.17 4.37 142.38 324.88 56.06 2 10 37 3237.2 -1.12 136.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3471 TRA 3.9607 TC3-3.2419 BAU 1.2387 SGT 5769.3 SGR 485.9 SG3 137.8 ST 1432.3 SR 376.8 SS 420.5
 RDE .3410 RRA .2624 RC3 -.0923 FAU .01604 RRT .5729 RRF .5500 RTF .9500 CRT -.0179 CRS .2053 CST -.9815
 FDE -.2029 FRA 1.2859 FC3 -.4861 BSP 18853 SGB 5789.7 R23 .0039 R13 .9500 LSA 1490.8 MSA 384.1 SSA 15.2
 BDE .4866 BRA 3.9694 BC3 3.2433 FSP -469 SG1 5776.0 SG2 397.8 THA 2.78 EL1 1432.3 EL2 376.7 ALF 179.71

LAUNCH DATE FEB 20 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 578.897

RL 147.93 LAL .00 LOL 151.19 VL 26.171 GAL 9.00 AZL 90.31 HCA 290.17 SMA 119.64 ECC .28116 INC .3126 V1 30.119
 RP 107.73 LAP .29 LOP 81.36 VP 36.804 GAP 15.32 AZP 90.11 TAL 155.19 TAP 85.36 RCA 86.00 APO 153.27 V2 35.177
 RC 194.480 GL -1.43 GP -12.30 ZAL 48.94 ZAP 167.62 ETS 280.30 ZAE 130.67 ETE 190.65 ZAC 176.85 ETC 145.52 CLP-178.53

PLANETOCENTRIC CONIC

C3 32.067 VHL 5.663 DLA 21.46 RAL 103.18 RAD 6568.3 VEL 12.387 PTH 2.24 VHP 10.144 DPA 11.40 RAP 83.56 ECC 1.5277
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 43 3071.70 -27.50 101.62 341.34 82.95 5 58 55 2471.7 -28.19 93.02
 90.00 23 19 25 4233.45 1.12 173.85 332.10 61.70 24 29 58 3633.4 -2.67 167.22
 100.00 6 43 50 2761.78 -29.39 79.06 341.59 84.28 7 29 52 2161.8 -29.87 70.29
 100.00 0 29 55 4018.60 2.78 157.13 331.17 60.23 1 36 53 3418.6 -1.20 150.61
 110.00 8 23 5 2451.24 -34.11 55.87 341.98 87.67 9 3 57 1851.2 -34.06 46.62
 110.00 1 7 9 3901.91 6.82 145.79 328.68 56.42 2 12 10 3301.9 2.35 139.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.5277 TRA 4.3637 TC3-2.8631 BAU 1.2279 SGT 5771.0 SGR 474.1 SG3 133.5 ST 1523.1 SR 364.6 SS 440.0
 RDE .3490 RRA .2793 RC3 -.0784 FAU .01453 RRT .5629 RRF .5408 RTF .9526 CRT -.1055 CRS .2544 CST -.9879
 FDE -.2422 FRA 1.3430 FC3 -.3922 BSP 18932 SGB 5790.5 R23 .0025 R13 .9526 LSA 1584.7 MSA 367.6 SSA 14.4
 BDE .6326 BRA 4.3727 BC3 2.8642 FSP -456 SG1 5777.2 SG2 391.4 THA 2.66 EL1 1523.7 EL2 362.5 ALF 178.47

LAUNCH DATE FEB 20 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 583.846

RL 147.93 LAL .00 LOL 151.19 VL 26.133 GAL 9.91 AZL 90.53 HCA 293.40 SMA 119.42 ECC .29143 INC .5271 V1 30.119
 RP 107.70 LAP .48 LOP 84.58 VP 36.786 GAP 16.01 AZP 90.22 TAL 153.72 TAP 87.12 RCA 84.62 APO 154.22 V2 35.187
 RC 196.245 GL -2.26 GP -12.04 ZAL 46.74 ZAP 167.94 ETS 276.22 ZAE 130.65 ETE 190.43 ZAC 177.81 ETC 98.88 CLP-179.42

PLANETOCENTRIC CONIC

C3 36.180 VHL 6.015 DLA 20.41 RAL 105.46 RAD 6568.4 VEL 12.552 PTH 2.27 VHP 10.549 DPA 11.88 RAP 85.88 ECC 1.5954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 23 3056.25 -27.62 100.50 345.60 83.50 6 20 20 2456.2 -28.23 91.89
 90.00 23 15 55 4309.80 3.58 178.11 335.81 61.89 24 27 45 3709.8 -2.21 171.48
 100.00 7 4 3 2751.01 -29.46 78.27 345.82 84.69 7 49 54 2151.0 -29.88 69.49
 100.00 0 27 53 4090.26 5.20 161.08 334.91 60.52 1 36 3 3490.3 1.23 154.54
 110.00 8 40 41 2448.67 -34.12 55.66 346.18 87.79 9 21 30 1848.7 -34.05 46.42
 110.00 1 7 44 3965.37 9.19 149.17 332.47 56.93 2 13 49 3365.4 4.77 142.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7147 TRA 4.7921 TC3-2.5057 BAU 1.2124 SGT 5768.2 SGR 461.1 SG3 129.4 ST 1614.5 SR 352.5 SS 459.4
 RDE .3577 RRA .2956 RC3 -.0656 FAU .01304 RRT .5523 RRF .5314 RTF .9555 CRT -.1759 CRS .2942 CST -.9921
 FDE -.2799 FRA 1.4025 FC3 -.3121 BSP 18992 SGB 5786.6 R23 .0015 R13 .9555 LSA 1679.0 MSA 350.3 SSA 13.7
 BDE .7992 BRA 4.8012 BC3 2.5066 FSP -443 SG1 5773.8 SG2 384.0 THA 2.54 EL1 1615.7 EL2 346.7 ALF 177.69

LAUNCH DATE FEB 20 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 588.650

RL 147.93 LAL .00 LOL 151.19 VL 26.095 GAL 10.88 AZL 90.75 HCA 296.63 SMA 119.21 ECC .30274 INC .7522 V1 30.119
 RP 107.67 LAP .67 LOP 87.81 VP 36.768 GAP 16.75 AZP 90.34 TAL 152.30 TAP 88.93 RCA 83.12 APO 155.29 V2 35.196
 RC 197.986 GL -3.01 GP -11.81 ZAL 44.70 ZAP 168.18 ETS 271.85 ZAE 130.60 ETE 190.22 ZAC 176.82 ETC 53.06 CLP 179.68

PLANETOCENTRIC CONIC

C3 41.023 VHL 6.405 DLA 19.43 RAL 107.57 RAD 6568.6 VEL 12.743 PTH 2.32 VHP 10.993 DPA 12.29 RAP 88.18 ECC 1.6751
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 56 3046.75 -27.69 99.82 349.77 83.83 6 39 43 2446.8 -28.26 91.20
 90.00 23 13 10 4382.77 5.90 182.21 339.52 62.26 24 26 13 3782.8 2.14 175.55
 100.00 7 22 24 2745.34 -29.50 77.85 349.98 84.91 8 8 10 2145.3 -29.89 69.07
 100.00 0 26 19 4159.41 7.50 164.92 338.65 60.98 1 35 38 3559.4 3.57 158.34
 110.00 8 56 49 2449.95 -34.12 55.77 350.33 87.73 9 37 39 1850.0 -34.05 46.52
 110.00 1 8 23 4027.56 11.48 152.53 336.25 57.58 2 15 31 3427.6 7.12 146.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.9054 TRA 5.2523 TC3-2.1677 BAU 1.1892 SGT 5761.0 SGR 447.1 SG3 125.5 ST 1702.0 SR 340.5 SS 478.3
 RDE .3676 RRA .3111 RC3 -.0535 FAU .01152 RRT .5413 RRF .5222 RTF .9585 CRT -.2309 CRS .3246 CST -.9948
 FDE -.3149 FRA 1.4664 FC3 -.2431 BSP 18925 SGB 5778.3 R23 .0013 R13 .9585 LSA 1769.2 MSA 333.4 SSA 13.0
 BDE .9772 BRA 5.2615 BC3 2.1684 FSP -427 SG1 5766.1 SG2 375.6 THA 2.42 EL1 1703.9 EL2 331.0 ALF 177.25

LAUNCH DATE FEB 20 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 593.278

RL 147.93 LAL .00 LOL 151.19 VL 26.058 GAL 11.94 AZL 90.99 MCA 299.86 SMA 119.00 ECC .31522 INC .9907 V1 30.119
 RP 107.64 LAP .86 LOP 91.05 VP 36.751 GAP 17.57 AZP 90.49 TAL 150.93 TAP 90.79 RCA 81.49 APO 156.51 V2 35.205
 RC 199.701 GL -3.70 GP -11.60 ZAL 42.82 ZAP 168.34 ETS 267.20 ZAE 130.53 ETE 190.01 ZAC 174.95 ETC 35.14 CLP 178.76

PLANETOCENTRIC CONIC

C3 46.739 VHL 6.837 OLA 18.50 RAL 109.50 RAD 6568.7 VEL 12.965 PTH 2.36 VHP 11.481 DPA 12.65 RAP 90.48 ECC 1.7692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 36 3042.39 -27.72 99.50 353.87 83.99 6 57 18 2442.4 -28.27 90.88
 90.00 23 10 56 4452.79 8.11 186.18 343.22 62.78 24 25 9 3852.8 4.39 179.47
 100.00 7 39 5 2744.16 -29.50 77.76 354.06 84.96 8 24 49 2144.2 -29.89 68.98
 100.00 0 25 4 4226.25 9.69 168.68 342.38 61.58 1 35 31 3626.3 5.82 162.03
 110.00 9 11 35 2454.74 -34.10 56.14 354.42 87.51 9 52 30 1854.7 -34.07 46.89
 110.00 1 9 4 4088.43 13.68 155.88 340.02 58.36 2 17 12 3488.4 9.40 149.39

DIFFERENTIAL CORRECTIONS

TDE-1.1100 TRA 5.7336 TC3-1.8599 BAU 1.1625
 RDE .3779 RRA .3250 RC3 -.0429 FAU .01008
 FDE -.3508 FRA 1.5325 FC3 -.1867 BSP 18992
 BOE 1.1726 BRA 5.7428 BC3 1.8604 FSP -415

MID-COURSE EXECUTION ACCURACY

SGT 5745.3 SGR 431.6 SG3 121.8
 RRT .5284 RRF .5112 RTF .9616
 SGB 5761.4 R23 .0012 R13 .9616
 SG1 5749.8 SG2 366.2 THA 2.28

ORBIT DETERMINATION ACCURACY

ST 1783.8 SR 328.3 SS 497.6
 CRT -.2793 CRS .3529 CST -.9966
 LSA 1853.9 MSA 316.5 SSA 12.4
 EL1 1786.2 EL2 314.8 ALF 176.96

LAUNCH DATE FEB 20 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 597.694

RL 147.93 LAL .00 LOL 151.19 VL 26.022 GAL 13.08 AZL 91.25 MCA 303.09 SMA 118.80 ECC .32903 INC 1.2452 V1 30.119
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.733 GAP 18.46 AZP 90.68 TAL 149.63 TAP 92.72 RCA 79.71 APO 157.89 V2 35.213
 RC 201.391 GL -4.32 GP -11.40 ZAL 41.08 ZAP 168.39 ETS 262.34 ZAE 130.42 ETE 189.80 ZAC 172.87 ETC 27.37 CLP 177.80

PLANETOCENTRIC CONIC

C3 53.508 VHL 7.315 OLA 17.64 RAL 111.27 RAD 6568.9 VEL 13.224 PTH 2.42 VHP 12.021 DPA 12.95 RAP 92.77 ECC 1.8806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 33 3042.46 -27.72 99.51 357.87 83.98 7 13 16 2442.5 -28.27 90.89
 90.00 23 9 6 4520.12 10.18 190.04 346.90 63.43 24 24 27 3920.1 6.53 183.26
 100.00 7 54 12 2746.93 -29.49 77.97 358.07 84.85 8 39 59 2146.9 -29.89 69.18
 100.00 0 24 5 4290.89 11.76 172.36 346.08 62.32 1 35 36 3690.9 7.96 165.63
 110.00 9 25 3 2462.69 -34.08 56.76 358.45 87.14 10 6 5 1862.7 -34.10 47.51
 110.00 1 9 43 4147.89 15.78 159.21 343.77 59.27 2 18 51 3547.9 11.58 152.61

DIFFERENTIAL CORRECTIONS

TDE-1.3225 TRA 6.2609 TC3-1.5764 BAU 1.1279
 RDE .3892 RRA .3371 RC3 -.0335 FAU .00863
 FDE -.3861 FRA 1.6032 FC3 -.1397 BSP 19006
 BOE 1.3786 BRA 6.2699 BC3 1.5767 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 5733.4 SGR 414.9 SG3 118.1
 RRT .5141 RRF .4988 RTF .9650
 SGB 5748.4 R23 .0008 R13 .9650
 SG1 5737.4 SG2 355.6 THA 2.14

ORBIT DETERMINATION ACCURACY

ST 1860.4 SR 316.0 SS 517.0
 CRT -.3187 CRS .3771 CST -.9978
 LSA 1933.4 MSA 300.3 SSA 11.8
 EL1 1863.2 EL2 299.1 ALF 176.82

LAUNCH DATE FEB 20 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 601.853

RL 147.93 LAL .00 LOL 151.19 VL 25.986 GAL 14.32 AZL 91.52 MCA 306.32 SMA 118.60 ECC .34438 INC 1.5194 V1 30.119
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.715 GAP 19.45 AZP 90.90 TAL 148.41 TAP 94.73 RCA 77.76 APO 159.45 V2 35.221
 RC 203.056 GL -4.88 GP -11.22 ZAL 39.50 ZAP 168.34 ETS 257.29 ZAE 130.26 ETE 189.60 ZAC 170.76 ETC 23.21 CLP 176.81

PLANETOCENTRIC CONIC

C3 61.558 VHL 7.846 OLA 16.84 RAL 112.88 RAD 6569.1 VEL 13.525 PTH 2.47 VHP 12.620 DPA 13.20 RAP 95.02 ECC 2.0131
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 36 56 3046.42 -27.69 99.80 1.78 83.84 7 27 43 2446.4 -28.26 91.17
 90.00 23 7 34 4584.86 12.12 193.80 350.55 64.21 24 23 59 3984.9 8.56 186.94
 100.00 8 7 52 2753.18 -29.45 78.43 1.98 84.61 8 53 45 2153.2 -29.88 69.65
 100.00 0 23 15 4353.33 13.70 175.98 349.75 63.17 1 35 48 3753.3 10.00 169.15
 110.00 9 37 17 2473.45 -34.04 57.60 2.40 86.65 10 18 30 1873.5 -34.13 48.35
 110.00 1 10 20 4205.82 17.76 162.52 347.48 60.30 2 20 26 3605.8 13.67 155.79

DIFFERENTIAL CORRECTIONS

TDE-1.5464 TRA 6.8219 TC3-1.3175 BAU 1.0844
 RDE .4015 RRA .3469 RC3 -.0251 FAU .00716
 FDE -.4213 FRA 1.6795 FC3 -.1008 BSP 19014
 BOE 1.5977 BRA 6.8308 BC3 1.3177 FSP -391

MID-COURSE EXECUTION ACCURACY

SGT 5713.2 SGR 397.0 SG3 114.7
 RRT .4973 RRF .4843 RTF .9685
 SGB 5727.0 R23 .0010 R13 .9685
 SG1 5716.6 SG2 344.2 THA 1.99

ORBIT DETERMINATION ACCURACY

ST 1928.0 SR 303.8 SS 536.9
 CRT -.3535 CRS .3990 CST -.9986
 LSA 2004.2 MSA 284.5 SSA 11.2
 EL1 1931.1 EL2 283.7 ALF 176.74

LAUNCH DATE FEB 20 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 605.697

RL 147.93 LAL .00 LOL 151.19 VL 25.952 GAL 15.68 AZL 91.82 MCA 309.55 SMA 118.42 ECC .36147 INC 1.8173 V1 30.119
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.698 GAP 20.56 AZP 91.16 TAL 147.28 TAP 96.83 RCA 75.61 APO 161.22 V2 35.228
 RC 204.697 GL -5.39 GP -11.05 ZAL 38.08 ZAP 168.18 ETS 252.14 ZAE 130.06 ETE 189.39 ZAC 168.65 ETC 20.66 CLP 177.77

PLANETOCENTRIC CONIC

C3 71.180 VHL 8.437 OLA 16.10 RAL 114.33 RAD 6569.4 VEL 13.876 PTH 2.53 VHP 13.288 DPA 13.40 RAP 97.24 ECC 2.1714
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 51 3053.73 -27.64 100.32 5.58 83.58 7 40 45 2453.7 -28.24 91.71
 90.00 23 6 14 4647.00 13.94 197.46 354.14 65.10 24 23 41 4047.0 10.46 190.50
 100.00 8 20 10 2762.47 -29.39 79.11 5.79 84.25 9 6 13 2162.5 -29.87 70.34
 100.00 0 22 32 4413.49 15.52 179.52 353.36 64.13 1 36 5 3813.5 11.92 172.58
 110.00 9 48 19 2486.69 -33.98 58.63 6.25 86.04 10 29 46 1886.7 -34.16 49.38
 110.00 1 10 52 4262.05 19.62 165.82 351.15 61.43 2 21 54 3662.0 15.66 158.94

DIFFERENTIAL CORRECTIONS

TDE-1.7774 TRA 7.4320 TC3-1.0793 BAU 1.0272
 RDE .4152 RRA .3538 RC3 -.0178 FAU .00559
 FDE -.4556 FRA 1.7636 FC3 -.0680 BSP 18899
 BOE 1.8253 BRA 7.4404 BC3 1.0794 FSP -377

MID-COURSE EXECUTION ACCURACY

SGT 5689.4 SGR 378.1 SG3 111.4
 RRT .4779 RRF .4676 RTF .9720
 SGB 5701.9 R23 .0016 R13 .9720
 SG1 5692.3 SG2 332.0 THA 1.83

ORBIT DETERMINATION ACCURACY

ST 1985.8 SR 291.8 SS 557.3
 CRT -.3833 CRS .4178 CST -.9991
 LSA 2065.5 MSA 269.6 SSA 10.6
 EL1 1989.1 EL2 269.1 ALF 176.72

LAUNCH DATE FEB 20 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 609.148

RL 147.93 LAL .00 LOL 151.19 VL 25.920 GAL 17.18 AZL 92.14 HCA 312.79 SMA 118.24 ECC .38060 INC 2.1446 V1 30.119
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.681 GAP 21.79 AZP 91.46 TAL 146.26 TAP 99.05 RCA 73.24 APO 163.24 V2 35.235
 RC 206.313 GL -5.85 GP -10.89 ZAL 36.81 ZAP 167.89 ETS 246.95 ZAE 129.80 ETE 189.18 ZAC 166.58 ETC 18.96 CLP 174.68

PLANETOCENTRIC CONIC

C3 82.751 VHL 9.097 OLA 15.42 RAL 115.63 RAD 6569.6 VEL 14.286 PTH 2.60 VHP 14.037 DPA 13.56 RAP 99.42 ECC 2.3619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 22 3063.96 -27.56 101.06 9.24 83.22 7 52 26 2464.0 -28.21 92.46
 90.00 23 5 2 4706.46 15.61 201.03 357.65 66.07 24 23 28 4106.5 12.25 193.96
 100.00 8 31 9 2774.41 -29.30 79.99 9.47 83.80 9 17 23 2174.4 -29.85 71.23
 100.00 0 21 51 4471.24 17.21 182.98 356.89 65.17 1 36 23 3871.2 13.72 175.93
 110.00 9 58 11 2502.07 -33.90 59.82 9.98 85.34 10 39 53 1902.1 -34.18 50.59
 110.00 1 11 18 4316.34 21.36 169.08 354.74 62.65 2 23 15 3716.3 17.52 162.05

DIFFERENTIAL CORRECTIONS

TDE-2.0278 TRA 8.0872 TC3 -.8673 BAU .9595
 RDE .4300 RRA .3567 RC3 -.0118 FAU .00399
 FDE -.4922 FRA 1.8543 FC3 -.0418 BSP 18910
 BOE 2.0729 BRA 8.0950 BC3 .8673 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 5660.4 SGR 358.0 SG3 108.2
 RRT .4537 RRF .4460 RTF .9754
 SGB 5671.7 R23 .0022 R13 .9754
 SG1 5662.7 SG2 318.9 THA 1.65

ORBIT DETERMINATION ACCURACY

ST 2036.2 SR 279.7 SS 579.4
 CRT -.4127 CRS .4382 CST -.9994
 LSA 2120.2 MSA 254.7 SSA 10.1
 EL1 2039.6 EL2 254.4 ALF 176.70

LAUNCH DATE FEB 20 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 612.112

RL 147.93 LAL .00 LOL 151.19 VL 25.888 GAL 18.85 AZL 92.51 HCA 316.02 SMA 118.07 ECC .40207 INC 2.5081 V1 30.119
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.665 GAP 23.18 AZP 91.81 TAL 145.39 TAP 101.41 RCA 70.60 APO 165.54 V2 35.240
 RC 207.904 GL -6.26 GP -10.74 ZAL 35.70 ZAP 167.48 ETS 241.78 ZAE 129.47 ETE 188.97 ZAC 164.57 ETC 17.77 CLP 173.52

PLANETOCENTRIC CONIC

C3 96.762 VHL 9.837 OLA 14.81 RAL 116.75 RAD 6569.9 VEL 14.768 PTH 2.67 VHP 14.882 DPA 13.67 RAP 101.52 ECC 2.5924
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 29 3076.70 -27.45 101.98 12.75 82.77 8 2 46 2476.7 -28.17 93.39
 90.00 23 3 54 4763.04 17.14 204.47 1.05 67.11 24 23 17 4163.0 13.89 197.30
 100.00 8 40 49 2788.62 -29.19 81.03 12.99 83.26 9 27 17 2188.6 -29.82 72.28
 100.00 0 21 11 4526.35 18.75 186.34 .32 66.28 1 36 38 3926.4 15.38 179.17
 110.00 10 6 54 2519.28 -33.80 61.15 13.57 84.56 10 48 53 1919.3 -34.18 51.93
 110.00 1 11 36 4368.46 22.95 172.28 358.23 63.94 2 24 24 3768.5 19.26 165.09

DIFFERENTIAL CORRECTIONS

TDE-2.2925 TRA 8.8007 TC3 -.6760 BAU .8746
 RDE .4466 RRA .3548 RC3 -.0068 FAU .00226
 FDE -.5301 FRA 1.9547 FC3 -.0202 BSP 18885
 BOE 2.3356 BRA 8.8078 BC3 .6761 FSP -357

MID-COURSE EXECUTION ACCURACY

SGT 5627.2 SGR 336.9 SG3 105.2
 RRT .4239 RRF .4189 RTF .9788
 SGB 5637.2 R23 .0030 R13 .9788
 SG1 5629.0 SG2 305.0 THA 1.46

ORBIT DETERMINATION ACCURACY

ST 2077.2 SR 267.9 SS 603.3
 CRT -.4409 CRS .4587 CST -.9997
 LSA 2166.3 MSA 240.2 SSA 9.5
 EL1 2080.6 EL2 240.1 ALF 176.70

LAUNCH DATE FEB 20 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 614.459

RL 147.93 LAL .00 LOL 151.19 VL 25.859 GAL 20.70 AZL 92.92 HCA 319.26 SMA 117.91 ECC .42626 INC 2.9169 V1 30.119
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.649 GAP 24.75 AZP 92.21 TAL 144.68 TAP 103.93 RCA 67.65 APO 168.17 V2 35.246
 RC 209.470 GL -6.62 GP -10.60 ZAL 34.76 ZAP 166.91 ETS 236.69 ZAE 129.05 ETE 188.73 ZAC 162.62 ETC 16.91 CLP 172.28

PLANETOCENTRIC CONIC

C3 113.860 VHL 10.671 OLA 14.26 RAL 117.71 RAD 6570.2 VEL 15.336 PTH 2.75 VHP 15.839 DPA 13.74 RAP 103.56 ECC 2.8738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 13 3091.59 -27.32 103.05 16.07 82.25 8 11 45 2491.6 -28.11 94.47
 90.00 23 2 48 4816.50 18.52 207.79 4.31 68.19 24 23 4 4216.5 15.40 200.50
 100.00 8 49 9 2804.77 -29.06 82.21 16.33 82.65 9 35 54 2204.8 -29.77 73.48
 100.00 0 20 28 4578.55 20.15 189.59 3.61 67.44 1 36 47 3978.6 16.91 182.29
 110.00 10 14 25 2538.01 -33.67 62.60 16.98 83.71 10 56 43 1938.0 -34.17 53.39
 110.00 1 11 43 4418.07 24.40 175.41 1.60 65.28 2 25 21 3818.1 20.86 168.05

DIFFERENTIAL CORRECTIONS

TDE-2.5737 TRA 9.5803 TC3 -.5047 BAU .7683
 RDE .4652 RRA .3466 RC3 -.0030 FAU .00032
 FDE -.5697 FRA 2.0668 FC3 -.0024 BSP 18833
 BOE 2.6154 BRA 9.5865 BC3 .5047 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 5589.4 SGR 315.1 SG3 102.4
 RRT .3865 RRF .3842 RTF .9821
 SGB 5598.3 R23 .0039 R13 .9821
 SG1 5590.8 SG2 290.6 THA 1.25

ORBIT DETERMINATION ACCURACY

ST 2108.6 SR 256.4 SS 629.5
 CRT -.4689 CRS .4802 CST -.9998
 LSA 2203.9 MSA 226.1 SSA 9.0
 EL1 2112.1 EL2 226.1 ALF 176.70

LAUNCH DATE FEB 20 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 616.024

RL 147.93 LAL .00 LOL 151.19 VL 25.831 GAL 22.78 AZL 93.38 HCA 322.49 SMA 117.76 ECC .45363 INC 3.3833 V1 30.119
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.633 GAP 26.54 AZP 92.68 TAL 144.17 TAP 106.66 RCA 64.34 APO 171.18 V2 35.250
 RC 211.012 GL -6.95 GP -10.46 ZAL 34.01 ZAP 166.19 ETS 231.73 ZAE 128.53 ETE 188.49 ZAC 160.77 ETC 16.28 CLP 170.94

PLANETOCENTRIC CONIC

C3 134.908 VHL 11.615 OLA 13.78 RAL 118.48 RAD 6570.5 VEL 16.008 PTH 2.82 VHP 16.932 DPA 13.79 RAP 105.49 ECC 3.2202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 27 32 3108.32 -27.16 104.25 19.17 81.67 8 19 20 2508.3 -28.03 95.69
 90.00 23 1 39 4866.49 19.76 210.93 7.38 69.29 24 22 46 4266.5 16.77 203.54
 100.00 8 56 8 2822.56 -28.90 83.51 19.46 81.99 9 43 11 2222.6 -29.70 74.80
 100.00 0 19 40 4627.49 21.39 192.69 6.71 68.61 1 36 47 4027.5 18.30 185.27
 110.00 10 20 41 2558.00 -33.51 64.14 20.18 82.81 11 3 19 1958.0 -34.14 54.95
 110.00 1 11 36 4464.82 25.70 178.42 4.78 66.64 2 26 1 3864.8 22.31 170.90

DIFFERENTIAL CORRECTIONS

TDE-2.8693 TRA10.4390 TC3 -.3510 BAU .6330
 RDE .4866 RRA .3307 RC3 -.0001 FAU .00195
 FDE -.6110 FRA 2.1936 FC3 .0125 BSP 18669
 BOE 2.9103 BRA10.4442 BC3 .3510 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 5548.1 SGR 293.0 SG3 99.8
 RRT .3391 RRF .3394 RTF .9851
 SGB 5555.8 R23 .0049 R13 .9851
 SG1 5549.0 SG2 275.6 THA 1.03

ORBIT DETERMINATION ACCURACY

ST 2129.4 SR 245.2 SS 658.4
 CRT -.4970 CRS .5028 CST -.9999
 LSA 2232.2 MSA 212.5 SSA 8.4
 EL1 2132.9 EL2 212.5 ALF 176.69

LAUNCH DATE FEB 21 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 2 1969

HELIOCENTRIC CONIC

DISTANCE 187.803

RL 147.96 LAL .00 LOL 152.19 VL 27.194 GAL -8.59 AZL 88.81 MCA 83.88 SMA 125.87 ECC .22895 INC 1.1871 V1 30.112
 RP 108.40 LAP 1.18 LOP 236.07 VP 37.341 GAP -10.59 AZP 89.87 TAL 212.12 TAP 296.00 RCA 97.05 APO 154.69 V2 34.961
 RC 53.536 GL 5.80 GP 16.20 ZAL 143.60 ZAP 20.88 ETS 313.29 ZAE 146.85 ETE 18.16 ZAC 127.98 ETC 149.44 CLP -13.35

PLANETOCENTRIC CONIC

C3 30.442 VHL 5.517 DLA 8.57 RAL 5.22 RAD 6568.2 VEL 12.321 PTH 2.22 VHP 7.593 DPA 28.96 RAP 34.51 ECC 1.5010
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 1 2586.51 -26.51 66.45 236.77 100.33 1 18 7 1986.5 -24.82 58.19
 90.00 14 42 39 4692.50 15.22 200.18 231.80 65.83 16 0 52 4092.5 11.83 193.15
 100.00 2 0 31 2310.73 -27.79 45.89 236.49 101.47 2 39 2 1710.7 -25.93 37.58
 100.00 15 59 50 4443.51 16.41 181.31 231.23 64.66 17 13 54 3843.5 12.86 174.31
 110.00 3 18 15 2067.48 -31.22 26.51 235.58 104.68 3 52 43 1467.5 -28.89 18.08
 110.00 16 58 35 4259.53 19.54 165.67 229.55 61.38 18 9 35 3659.5 15.57 158.80

DIFFERENTIAL CORRECTIONS

TDE -.1879 TRA -.3018 TC3 .4651 BAU .2031
 RDE -.3400 RRA .2122 RC3 .1807 FAU .04411
 FDE -.1447 FRA -.3284 FC3-1.2544 BSP 1821
 BDE .3885 BRA .3689 BC3 .4990 FSP -319

MID-COURSE EXECUTION ACCURACY

SGT 634.0 SGR 462.7 SG3 123.9
 RRT .3431 RRF -.4517 RTF -.6288
 SGB 784.9 R23 -.0796 R13 -.6724
 SG1 667.6 SG2 412.7 THA 23.48

ORBIT DETERMINATION ACCURACY

ST 217.6 SR 359.4 SS 122.8
 CRT .8009 CRS -.6826 CST -.9461
 LSA 415.3 MSA 134.7 SSA 30.7
 EL1 403.8 EL2 116.0 ALF 61.57

LAUNCH DATE FEB 21 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 194.563

RL 147.96 LAL .00 LOL 152.19 VL 27.349 GAL -8.54 AZL 89.00 MCA 87.06 SMA 126.89 ECC .22141 INC 1.0027 V1 30.112
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.442 GAP -9.71 AZP 89.95 TAL 213.58 TAP 300.64 RCA 98.80 APO 154.99 V2 34.948
 RC 55.282 GL 5.01 GP 17.29 ZAL 145.05 ZAP 23.50 ETS 317.23 ZAE 146.25 ETE 20.39 ZAC 127.67 ETC 148.51 CLP -16.17

PLANETOCENTRIC CONIC

C3 29.360 VHL 5.418 DLA 7.31 RAL 4.27 RAD 6568.2 VEL 12.277 PTH 2.21 VHP 7.135 DPA 30.10 RAP 34.40 ECC 1.4832
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 41 6 2537.03 -25.86 62.97 234.61 101.95 1 23 23 1937.0 -23.96 54.82
 90.00 14 29 2 4723.83 16.09 202.08 230.41 66.38 15 47 46 4123.8 12.76 194.98
 100.00 2 5 57 2263.37 -27.11 42.54 234.30 103.11 2 43 40 1663.4 -25.03 34.35
 100.00 15 46 53 4472.73 17.25 183.07 229.86 65.20 17 1 25 3872.7 13.76 176.01
 110.00 3 22 12 2024.73 -30.44 23.42 233.30 106.36 3 55 57 1424.7 -27.90 15.15
 110.00 16 47 7 4284.12 20.34 167.13 228.24 61.91 17 58 31 3684.1 16.42 160.20

DIFFERENTIAL CORRECTIONS

TDE -.1750 TRA -.2883 TC3 .4918 BAU .2111
 RDE -.3257 RRA .2221 RC3 .2176 FAU .04843
 FDE -.1978 FRA -.3891 FC3-1.4281 BSP 1888
 BDE .3697 BRA .3639 BC3 .5378 FSP -366

MID-COURSE EXECUTION ACCURACY

SGT 642.5 SGR 479.8 SG3 139.6
 RRT .3784 RRF -.5045 RTF -.6345
 SGB 801.9 R23 -.0937 R13 -.6895
 SG1 685.3 SG2 416.4 THA 25.98

ORBIT DETERMINATION ACCURACY

ST 207.4 SR 351.7 SS 152.7
 CRT .7856 CRS -.7213 CST -.9622
 LSA 411.7 MSA 139.6 SSA 32.0
 EL1 391.7 EL2 115.2 ALF 62.57

LAUNCH DATE FEB 21 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 201.303

RL 147.96 LAL .00 LOL 152.19 VL 27.487 GAL -8.50 AZL 89.18 MCA 90.25 SMA 127.81 ECC .21485 INC .8195 V1 30.112
 RP 108.47 LAP .82 LOP 242.44 VP 37.531 GAP -8.88 AZP 90.00 TAL 214.96 TAP 305.21 RCA 100.35 APO 155.27 V2 34.936
 RC 57.109 GL 4.18 GP 18.49 ZAL 146.38 ZAP 26.36 ETS 320.53 ZAE 145.83 ETE 22.89 ZAC 127.16 ETC 147.61 CLP -19.13

PLANETOCENTRIC CONIC

C3 28.460 VHL 5.335 DLA 6.05 RAL 3.46 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 6.711 DPA 31.29 RAP 34.09 ECC 1.4684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 31 2489.30 -25.15 59.66 232.71 103.46 1 29 0 1889.3 -23.05 51.62
 90.00 14 16 6 4756.00 16.95 204.04 229.26 66.97 15 35 22 4156.0 13.69 196.88
 100.00 2 11 44 2217.68 -26.36 39.35 232.57 104.63 2 48 42 1617.7 -24.09 31.28
 100.00 15 34 34 4502.85 18.10 184.90 228.74 65.80 16 49 37 3902.9 14.68 177.78
 110.00 3 26 33 1983.53 -29.62 20.49 231.30 107.91 3 59 36 1383.5 -26.88 12.37
 110.00 16 36 14 4309.76 21.15 168.68 227.17 62.50 17 48 4 3709.8 17.30 161.67

DIFFERENTIAL CORRECTIONS

TDE -.1620 TRA -.2773 TC3 .5124 BAU .2185
 RDE -.3098 RRA .2334 RC3 .2594 FAU .05321
 FDE -.2601 FRA -.4553 FC3-1.6186 BSP 1950
 BDE .3496 BRA .3625 BC3 .5743 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 647.2 SGR 500.8 SG3 157.0
 RRT .4124 RRF -.5593 RTF -.6362
 SGB 818.3 R23 -.1093 R13 -.7064
 SG1 701.9 SG2 420.7 THA 28.93

ORBIT DETERMINATION ACCURACY

ST 196.5 SR 341.3 SS 185.6
 CRT .7638 CRS -.7446 CST -.9698
 LSA 409.0 MSA 145.4 SSA 32.9
 EL1 376.7 EL2 114.9 ALF 63.62

LAUNCH DATE FEB 21 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 208.020

RL 147.96 LAL .00 LOL 152.19 VL 27.607 GAL -8.46 AZL 89.36 MCA 93.43 SMA 128.64 ECC .20918 INC .6362 V1 30.112
 RP 108.51 LAP .64 LOP 245.62 VP 37.608 GAP -8.08 AZP 90.04 TAL 216.26 TAP 309.69 RCA 101.73 APO 155.54 V2 34.923
 RC 59.010 GL 3.30 GP 19.80 ZAL 147.59 ZAP 29.44 ETS 323.35 ZAE 145.55 ETE 25.71 ZAC 126.45 ETC 146.78 CLP -22.24

PLANETOCENTRIC CONIC

C3 27.709 VHL 5.264 DLA 4.80 RAL 2.77 RAD 6568.1 VEL 12.210 PTH 2.19 VHP 6.320 DPA 32.52 RAP 33.56 ECC 1.4560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 17 2443.21 -24.38 56.50 231.06 104.87 1 35 0 1843.2 -22.10 48.57
 90.00 14 3 51 4788.75 17.81 206.06 228.34 67.62 15 23 39 4188.8 14.63 198.83
 100.00 2 17 53 2173.56 -25.57 36.31 230.69 106.04 2 54 7 1573.6 -23.12 28.37
 100.00 15 22 56 4533.64 18.95 186.79 227.84 66.44 16 38 29 3933.6 15.60 179.60
 110.00 3 31 18 1943.78 -28.75 17.72 229.55 109.34 4 3 42 1343.8 -25.84 9.75
 110.00 16 26 0 4336.18 21.97 170.29 226.32 63.13 17 38 16 3736.2 18.19 163.20

DIFFERENTIAL CORRECTIONS

TDE -.1496 TRA -.2694 TC3 .5252 BAU .2253
 RDE -.2919 RRA .2462 RC3 .3065 FAU .05845
 FDE -.3323 FRA -.5265 FC3-1.8261 BSP 2008
 BDE .3280 BRA .3649 BC3 .6081 FSP -478

MID-COURSE EXECUTION ACCURACY

SGT 647.2 SGR 526.7 SG3 176.2
 RRT .4431 RRF -.6146 RTF -.6327
 SGB 834.4 R23 -.1254 R13 -.7236
 SG1 717.6 SG2 425.9 THA 32.46

ORBIT DETERMINATION ACCURACY

ST 186.0 SR 328.0 SS 221.1
 CRT .7342 CRS -.7565 CST -.9718
 LSA 408.5 MSA 151.8 SSA 33.5
 EL1 358.9 EL2 115.4 ALF 64.59

LAUNCH DATE FEB 21 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 214.712

RL 147.96 LAL .00 LOL 152.19 VL 27.713 GAL -8.43 AZL 89.55 MCA 96.61 SMA 129.37 ECC .20428 INC .4521 V1 30.112
 RP 108.55 LAP .45 LOP 248.80 VP 37.675 GAP -7.32 AZP 90.05 TAL 217.45 TAP 314.06 RCA 102.94 APO 155.80 V2 34.911
 RC 60.976 GL 2.38 GP 21.24 ZAL 148.67 ZAP 32.75 ETS 325.83 ZAE 145.40 ETE 28.89 ZAC 125.52 ETC 146.05 CLP -25.53

PLANETOCENTRIC CONIC

C3 27.080 VHL 5.204 DLA 3.56 RAL 2.21 RAD 6568.1 VEL 12.184 PTH 2.19 VHP 5.960 DPA 33.80 RAP 32.77 ECC 1.4457
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 25 2398.59 -23.57 53.49 229.64 106.17 1 41 23 1798.6 -21.12 45.66
 90.00 13 52 16 4821.94 18.66 208.13 227.65 68.31 15 12 38 4221.9 15.55 200.83
 100.00 2 24 25 2130.86 -24.73 33.41 229.26 107.35 2 59 56 1530.9 -22.12 25.59
 100.00 15 11 57 4564.90 19.79 188.74 227.16 67.13 16 28 2 3964.9 16.52 181.47
 110.00 3 36 29 1905.33 -27.86 15.09 228.06 110.66 4 8 14 1305.3 -24.79 7.26
 110.00 16 16 23 4363.20 22.79 171.96 225.69 63.81 17 29 6 3763.2 19.09 164.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1365 TRA -.2635 TC3 .5320 BAU .2325 SGT 643.1 SGR 558.8 SG3 197.4 ST 174.5 SR 311.0 SS 260.4
 RDE -.2712 RRA .2608 RC3 .3600 FAU .06422 RRT .4694 RRF -.6694 RTF -.6263 CRT .6915 CRS -.7593 CST -.9687
 FDE -.4178 FRA -.6036 FC3-2.0531 BSP 2100 SGB 852.0 R23 -.1382 R13 -.7443 LSA 410.9 MSA 158.1 SSA 33.8
 BOE .3036 BRA .3707 BC3 .6423 FSP -547 SG1 734.2 SG2 432.2 THA 36.64 EL1 337.2 EL2 116.3 ALF 65.72

LAUNCH DATE FEB 21 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 221.377

RL 147.96 LAL .00 LOL 152.19 VL 27.804 GAL -8.40 AZL 89.73 MCA 99.79 SMA 130.01 ECC .20006 INC .2653 V1 30.112
 RP 108.58 LAP .26 LOP 251.98 VP 37.732 GAP -6.60 AZP 90.05 TAL 218.53 TAP 318.32 RCA 104.00 APO 156.02 V2 34.900
 RC 63.000 GL 1.42 GP 22.80 ZAL 149.60 ZAP 36.27 ETS 328.08 ZAE 145.33 ETE 32.51 ZAC 124.36 ETC 145.42 CLP -29.01

PLANETOCENTRIC CONIC

C3 26.549 VHL 5.153 DLA 2.32 RAL 1.79 RAD 6568.1 VEL 12.162 PTH 2.18 VHP 5.634 DPA 35.12 RAP 31.69 ECC 1.4369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 56 2355.25 -22.71 50.59 228.45 107.38 1 48 11 1755.2 -20.12 42.88
 90.00 13 41 22 4855.45 19.49 210.24 227.16 69.04 15 2 17 4255.5 16.47 202.86
 100.00 2 31 21 2089.39 -23.86 30.64 228.05 108.56 3 6 11 1489.4 -21.10 22.93
 100.00 15 1 38 4596.54 20.61 190.73 226.69 67.86 16 18 14 3996.5 17.43 183.38
 110.00 3 42 5 1868.03 -26.93 12.58 226.79 111.89 4 13 13 1268.0 -23.72 4.89
 110.00 16 7 24 4390.67 23.61 173.67 225.27 64.53 17 20 34 3790.7 19.98 166.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1266 TRA -.2634 TC3 .5263 BAU .2388 SGT 632.4 SGR 597.7 SG3 219.9 ST 166.8 SR 291.0 SS 300.9
 RDE -.2479 RRA .2764 RC3 .4192 FAU .07029 RRT .4841 RRF -.7207 RTF -.6079 CRT .6369 CRS -.7523 CST -.9618
 FDE -.5129 FRA -.6815 FC3-2.2922 BSP 2157 SGB 870.1 R23 -.1501 R13 -.7645 LSA 418.5 MSA 163.6 SSA 33.8
 BOE .2784 BRA .3818 BC3 .6729 FSP -618 SG1 750.2 SG2 440.9 THA 41.67 EL1 313.5 EL2 119.4 ALF 66.30

LAUNCH DATE FEB 21 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 228.013

RL 147.96 LAL .00 LOL 152.19 VL 27.883 GAL -8.37 AZL 89.92 MCA 102.96 SMA 130.57 ECC .19642 INC .0740 V1 30.112
 RP 108.62 LAP .07 LOP 255.16 VP 37.779 GAP -5.91 AZP 90.02 TAL 219.48 TAP 322.45 RCA 104.92 APO 156.22 V2 34.889
 RC 65.076 GL .41 GP 24.49 ZAL 150.39 ZAP 40.02 ETS 330.19 ZAE 145.31 ETE 36.60 ZAC 122.95 ETC 144.95 CLP -32.69

PLANETOCENTRIC CONIC

C3 26.098 VHL 5.109 DLA 1.09 RAL 1.49 RAD 6568.1 VEL 12.144 PTH 2.18 VHP 5.340 DPA 36.46 RAP 30.31 ECC 1.4295
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 52 2312.91 -21.83 47.81 227.48 108.50 1 55 25 1712.9 -19.10 40.20
 90.00 13 31 5 4889.29 20.30 212.39 226.88 69.83 14 52 34 4289.3 17.37 204.94
 100.00 2 38 43 2048.90 -22.96 27.97 227.06 109.69 3 12 52 1448.9 -20.06 20.37
 100.00 14 51 55 4628.54 21.42 192.76 226.43 68.64 16 9 3 4028.5 18.33 185.33
 110.00 3 48 8 1831.64 -25.99 10.18 225.76 113.03 4 18 40 1231.6 -22.64 2.62
 110.00 15 59 0 4418.56 24.41 175.44 225.04 65.30 17 12 38 3818.6 20.88 168.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1190 TRA -.2679 TC3 .5096 BAU .2455 SGT 615.8 SGR 644.5 SG3 243.9 ST 161.8 SR 267.2 SS 343.8
 RDE -.2210 RRA .2932 RC3 .4851 FAU .07669 RRT .4845 RRF -.7676 RTF -.5778 CRT .5646 CRS -.7333 CST -.9509
 FDE -.6202 FRA -.7600 FC3-2.5440 BSP 2219 SGB 891.4 R23 -.1548 R13 -.7878 LSA 432.0 MSA 167.4 SSA 33.5
 BOE .2510 BRA .3972 BC3 .7036 FSP -694 SG1 768.4 SG2 451.8 THA 47.68 EL1 286.5 EL2 124.6 ALF 66.41

LAUNCH DATE FEB 21 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 234.620

RL 147.96 LAL .00 LOL 152.19 VL 27.949 GAL -8.34 AZL 90.12 MCA 106.14 SMA 131.05 ECC .19329 INC .1191 V1 30.112
 RP 108.65 LAP -.11 LOP 258.33 VP 37.818 GAP -5.26 AZP 89.97 TAL 220.31 TAP 326.44 RCA 105.72 APO 156.38 V2 34.878
 RC 67.198 GL -.65 GP 26.30 ZAL 151.02 ZAP 43.97 ETS 332.24 ZAE 145.27 ETE 41.21 ZAC 121.31 ETC 144.64 CLP -36.60

PLANETOCENTRIC CONIC

C3 25.712 VHL 5.071 DLA -.13 RAL 1.33 RAD 6568.0 VEL 12.128 PTH 2.17 VHP 5.078 DPA 37.82 RAP 28.59 ECC 1.4231
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 17 2271.29 -20.90 45.11 226.71 109.55 2 3 9 1671.3 -18.05 37.59
 90.00 13 21 21 4923.54 21.09 214.59 226.79 70.65 14 43 25 4323.5 18.26 207.06
 100.00 2 46 34 2009.10 -22.02 25.38 226.27 110.74 3 20 3 1409.1 -19.00 17.89
 100.00 14 42 45 4660.96 22.21 194.84 226.35 69.46 16 0 26 4061.0 19.21 187.33
 110.00 3 54 40 1795.93 -25.02 7.86 224.93 114.09 4 24 36 1195.9 -21.55 .42
 110.00 15 51 9 4446.90 25.21 177.26 225.01 66.11 17 5 16 3846.9 21.76 169.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1131 TRA -.2762 TC3 .4823 BAU .2537 SGT 594.2 SGR 700.5 SG3 269.1 ST 159.1 SR 239.6 SS 390.0
 RDE -.1897 RRA .3116 RC3 .5585 FAU .08336 RRT .4675 RRF -.8095 RTF -.5346 CRT .4659 CRS -.6955 CST -.9365
 FDE -.7414 FRA -.8389 FC3-2.8067 BSP 2326 SGB 918.6 R23 -.1465 R13 -.8155 LSA 452.9 MSA 169.0 SSA 33.1
 BOE .2209 BRA .4164 BC3 .7380 FSP -780 SG1 792.6 SG2 464.2 THA 54.74 EL1 255.5 EL2 132.0 ALF 66.04

LAUNCH DATE FEB 21 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 241.195

RL 147.96 LAL .00 LOL 152.19 VL 28.005 GAL -8.31 AZL 90.32 MCA 109.31 SMA 131.45 ECC .19059 INC .3202 V1 30.112
 RP 108.68 LAP -.30 LOP 261.50 VP 37.850 GAP -4.63 AZP 89.89 TAL 220.99 TAP 330.30 RCA 106.40 APO 156.51 V2 34.867
 RC 69.360 GL -1.76 GP 28.23 ZAL 151.50 ZAP 48.13 ETS 334.31 ZAE 145.15 ETE 46.34 ZAC 119.44 ETC 144.52 CLP -40.75

PLANETOCENTRIC CONIC

C3 25.378 VHL 5.038 DLA -1.36 RAL 1.29 RAD 6568.0 VEL 12.114 PTH 2.17 VHP 4.850 DPA 39.18 RAP 26.52 ECC 1.4177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 14 2230.06 -19.94 42.46 226.14 110.53 2 11 24 1630.1 -16.97 35.05
 90.00 13 12 7 4958.33 21.86 216.85 226.88 71.54 14 34 46 4358.3 19.13 209.24
 100.00 2 54 57 1969.71 -21.05 22.86 225.69 111.73 3 27 47 1369.7 -17.91 15.47
 100.00 14 34 6 4693.92 22.98 196.99 226.46 70.34 15 52 20 4093.9 20.09 189.38
 110.00 4 1 45 1760.62 -24.02 5.60 224.30 115.09 4 31 5 1160.6 -20.43 358.29
 110.00 15 43 48 4475.77 25.99 179.14 225.17 66.97 16 58 23 3875.8 22.65 171.58

DIFFERENTIAL CORRECTIONS

TDE -.1128 TRA -.2916 TC3 .4389 BAU .2627
 RDE -.1544 RRA .3298 RC3 .6378 FAU .08987
 FDE -.8706 FRA -.9092 FC3-3.0659 BSP 2421
 BDE .1912 BRA .4402 BC3 .7742 FSP -862

MID-COURSE EXECUTION ACCURACY

SGT 567.4 SGR 764.6 SG3 294.2
 RRT .4199 RRF -.8449 RTF -.4636
 SGB 952.1 R23 -.1259 R13 -.8440
 SG1 823.3 SG2 478.2 THA 62.89

ORBIT DETERMINATION ACCURACY

ST 162.9 SR 209.4 SS 436.6
 CRT .3392 CRS -.6284 CST -.9232
 LSA 481.3 MSA 168.3 SSA 32.5
 EL1 222.8 EL2 144.0 ALF 63.42

LAUNCH DATE FEB 21 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 247.740

RL 147.96 LAL .00 LOL 152.19 VL 28.051 GAL -8.27 AZL 90.53 MCA 112.48 SMA 131.79 ECC .18827 INC .5291 V1 30.112
 RP 108.72 LAP -.49 LOP 264.67 VP 37.874 GAP -4.03 AZP 89.80 TAL 221.55 TAP 334.02 RCA 106.98 APO 156.60 V2 34.858
 RC 71.560 GL -2.93 GP 30.27 ZAL 151.81 ZAP 52.47 ETS 336.44 ZAE 144.88 ETE 51.99 ZAC 117.34 ETC 144.62 CLP -45.14

PLANETOCENTRIC CONIC

C3 25.090 VHL 5.009 DLA -2.60 RAL 1.39 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 4.656 DPA 40.51 RAP 24.09 ECC 1.4129
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 48 2188.85 -18.94 39.86 225.76 111.46 2 20 17 1588.9 -15.85 32.54
 90.00 13 3 19 4993.89 22.61 219.19 227.16 72.48 14 26 32 4393.9 20.00 211.49
 100.00 3 3 56 1930.36 -20.04 20.38 225.29 112.66 3 36 6 1330.4 -16.79 13.09
 100.00 14 25 52 4727.62 23.73 199.21 226.76 71.27 15 44 39 4127.6 20.96 191.51
 110.00 4 9 24 1725.42 -22.98 3.39 223.86 116.03 4 38 9 1125.4 -19.29 356.19
 110.00 15 36 53 4505.33 26.76 181.09 225.51 67.90 16 51 58 3905.3 23.53 173.42

DIFFERENTIAL CORRECTIONS

TDE -.1175 TRA -.3128 TC3 .3801 BAU .2740
 RDE -.1142 RRA .3478 RC3 .7230 FAU .09609
 FDE -1.0080 FRA -.9692 FC3-3.3155 BSP 2550
 BDE .1639 BRA .4678 BC3 .8168 FSP -943

MID-COURSE EXECUTION ACCURACY

SGT 539.8 SGR 836.8 SG3 318.5
 RRT .3336 RRF -.8742 RTF -.3579
 SGB 995.8 R23 -.0914 R13 -.8722
 SG1 865.9 SG2 491.7 THA 71.80

ORBIT DETERMINATION ACCURACY

ST 172.5 SR 178.3 SS 484.5
 CRT .1615 CRS -.5059 CST -.9130
 LSA 517.5 MSA 165.5 SSA 31.9
 EL1 189.3 EL2 160.3 ALF 50.85

LAUNCH DATE FEB 21 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 254.252

RL 147.96 LAL .00 LOL 152.19 VL 28.087 GAL -8.23 AZL 90.75 MCA 115.65 SMA 132.05 ECC .18626 INC .7476 V1 30.112
 RP 108.74 LAP -.67 LOP 267.84 VP 37.893 GAP -3.46 AZP 89.68 TAL 221.97 TAP 337.61 RCA 107.46 APO 156.65 V2 34.848
 RC 73.792 GL -4.17 GP 32.39 ZAL 151.97 ZAP 56.95 ETS 338.71 ZAE 144.39 ETE 58.06 ZAC 115.05 ETC 144.94 CLP -49.78

PLANETOCENTRIC CONIC

C3 24.840 VHL 4.984 DLA -3.85 RAL 1.61 RAD 6568.0 VEL 12.092 PTH 2.16 VHP 4.496 DPA 41.80 RAP 21.30 ECC 1.4088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 4 2147.28 -17.88 37.26 225.57 112.33 2 29 51 1547.3 -14.70 30.03
 90.00 12 54 49 5030.55 23.34 221.63 227.62 73.49 14 18 39 4430.5 20.85 213.84
 100.00 3 13 36 1890.70 -18.98 17.91 225.08 113.54 3 45 7 1290.7 -15.63 10.71
 100.00 14 17 57 4762.36 24.47 201.52 227.24 72.28 15 37 20 4162.4 21.82 193.73
 110.00 4 17 42 1690.00 -21.91 1.20 223.61 116.92 4 45 52 1090.0 -18.12 354.12
 110.00 15 30 20 4535.82 27.53 183.13 226.04 68.89 16 45 56 3935.8 24.41 175.35

DIFFERENTIAL CORRECTIONS

TDE -.1276 TRA -.3388 TC3 .3068 BAU .2888
 RDE -.0682 RRA .3654 RC3 .8139 FAU .10183
 FDE -1.1534 FRA -1.0179 FC3-3.5490 BSP 2748
 BDE .1447 BRA .4983 BC3 .8698 FSP -1026

MID-COURSE EXECUTION ACCURACY

SGT 517.2 SGR 917.3 SG3 341.8
 RRT .2008 RRF -.8983 RTF -.2100
 SGB 1053.1 R23 -.0483 R13 -.8975
 SG1 925.7 SG2 502.1 THA 80.82

ORBIT DETERMINATION ACCURACY

ST 187.9 SR 150.7 SS 534.5
 CRT -.1082 CRS -.2749 CST -.9078
 LSA 562.8 MSA 161.2 SSA 31.1
 EL1 189.8 EL2 148.3 ALF 167.06

LAUNCH DATE FEB 21 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 260.733

RL 147.96 LAL .00 LOL 152.19 VL 28.115 GAL -8.18 AZL 90.98 MCA 118.81 SMA 132.26 ECC .18452 INC .9780 V1 30.112
 RP 108.77 LAP -.86 LOP 271.01 VP 37.905 GAP -2.92 AZP 89.53 TAL 222.25 TAP 341.07 RCA 107.86 APO 156.66 V2 34.839
 RC 76.053 GL -5.49 GP 34.57 ZAL 151.95 ZAP 61.54 ETS 341.15 ZAE 143.62 ETE 64.44 ZAC 112.59 ETC 145.50 CLP -54.65

PLANETOCENTRIC CONIC

C3 24.626 VHL 4.962 DLA -5.14 RAL 1.96 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 4.371 DPA 43.01 RAP 18.19 ECC 1.4053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 9 2104.88 -16.76 34.65 225.56 113.16 2 40 14 1504.9 -13.49 27.51
 90.00 12 46 31 5068.69 24.05 224.20 228.27 74.58 14 11 0 4468.7 21.70 216.31
 100.00 3 24 4 1850.29 -17.86 15.43 225.05 114.38 3 54 54 1250.3 -14.42 8.32
 100.00 14 10 17 4798.51 25.20 203.96 227.90 73.37 15 30 16 4198.5 22.68 196.07
 110.00 4 26 46 1654.01 -20.78 359.02 223.54 117.77 4 54 20 1054.0 -16.90 352.04
 110.00 15 24 5 4567.55 28.29 185.28 226.76 69.96 16 40 13 3967.6 25.30 177.39

DIFFERENTIAL CORRECTIONS

TDE -.1466 TRA -.3717 TC3 .2148 BAU .3067
 RDE -.0178 RRA .3798 RC3 .9065 FAU .10649
 FDE -1.2963 FRA -1.0438 FC3-3.7439 BSP 2968
 BDE .1477 BRA .5315 BC3 .9316 FSP -1094

MID-COURSE EXECUTION ACCURACY

SGT 509.7 SGR 1001.9 SG3 361.5
 RRT .0108 RRF -.9171 RTF -.0081
 SGB 1124.1 R23 -.0053 R13 -.9171
 SG1 1001.9 SG2 509.6 THA 89.58

ORBIT DETERMINATION ACCURACY

ST 213.1 SR 136.4 SS 583.1
 CRT -.4618 CRS .0957 CST -.9104
 LSA 615.5 MSA 155.9 SSA 30.2
 EL1 225.8 EL2 114.2 ALF 157.48

LAUNCH DATE FEB 21 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 267.181

RL 147.96 LAL .00 LOL 152.19 VL 28.135 GAL -8.12 AZL 91.22 HCA 121.97 SMA 132.41 ECC .18300 INC 1.2228 V1 30.112
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.912 GAP -2.40 AZP 89.35 TAL 222.42 TAP 344.39 RCA 108.18 APO 156.64 V2 34.831
 RC 78.340 GL -6.90 GP 36.78 ZAL 151.75 ZAP 66.19 ETS 343.80 ZAE 142.52 ETE 70.99 ZAC 110.02 ETC 146.28 CLP -59.73

PLANETOCENTRIC CONIC

C3 24.448 VHL 4.944 DLA -6.47 RAL 2.44 RAD 6568.0 VEL 12.076 PTH 2.16 VHP 4.281 OPA 44.14 RAP 14.80 ECC 1.4023
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 12 2061.15 -15.57 31.99 225.74 113.95 2 51 34 1461.1 -12.21 24.94
 90.00 12 38 19 5108.84 24.75 226.93 229.11 75.78 14 3 28 4508.8 22.55 218.95
 100.00 3 35 28 1808.67 -16.67 12.91 225.22 115.18 4 5 37 1208.7 -13.14 5.89
 100.00 14 2 44 4836.55 25.92 206.56 228.77 74.56 15 23 21 4236.6 23.55 198.57
 110.00 4 36 40 1617.06 -19.59 356.81 223.66 118.59 5 3 37 1017.1 -15.62 349.94
 110.00 15 18 2 4600.93 29.04 187.59 227.68 71.13 16 34 43 4000.9 26.19 179.56

DIFFERENTIAL CORRECTIONS

TDE -1.738 TRA -1.4086 TC3 .1072 BAU .3290
 RDE .0386 RRA .3916 RC3 1.0008 FAU .11007
 FDE-1.4390 FRA-1.0510 FC3-3.8977 BSP .3271
 BDE .1780 BRA .5660 BC3 1.0065 FSP -1159

MID-COURSE EXECUTION ACCURACY

SGT 528.1 SGR 1090.9 SG3 378.0
 RRT -.2114 RRF -.9322 RTF .2213
 SGB 1212.0 R23 .0323 R13 -.9320
 SG1 1098.2 SG2 512.7 THA 97.48

ORBIT DETERMINATION ACCURACY

ST 247.0 SR 147.2 SS 633.1
 CRT -.7842 CRS .5099 CST -.9179
 LSA 678.3 MSA 150.2 SSA 29.1
 EL1 275.6 EL2 81.8 ALF 152.30

LAUNCH DATE FEB 21 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 273.599

RL 147.96 LAL .00 LOL 152.19 VL 28.148 GAL -8.06 AZL 91.48 HCA 125.14 SMA 132.50 ECC .18168 INC 1.4848 V1 30.112
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.915 GAP -1.90 AZP 89.15 TAL 222.45 TAP 347.59 RCA 108.43 APO 156.58 V2 34.824
 RC 80.651 GL -8.42 GP 38.99 ZAL 151.37 ZAP 70.82 ETS 346.69 ZAE 141.08 ETE 77.52 ZAC 107.37 ETC 147.27 CLP -65.00

PLANETOCENTRIC CONIC

C3 24.307 VHL 4.930 DLA -7.86 RAL 3.06 RAD 6568.0 VEL 12.070 PTH 2.16 VHP 4.227 OPA 45.16 RAP 11.19 ECC 1.4000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 25 2015.52 -14.29 29.26 226.12 114.71 3 4 1 1415.5 -10.84 22.28
 90.00 12 30 3 5151.65 25.43 229.88 230.17 77.11 13 55 55 4551.7 23.40 221.80
 100.00 3 47 58 1765.32 -15.40 10.32 225.58 115.94 4 17 24 1165.3 -11.79 3.39
 100.00 13 55 11 4877.08 26.62 209.37 229.85 75.87 15 16 28 4277.1 24.42 201.26
 110.00 4 47 34 1578.70 -18.33 354.55 223.98 119.37 5 13 53 978.7 -14.28 347.78
 110.00 15 12 4 4636.47 29.80 190.08 228.83 72.42 16 29 21 4036.5 27.11 181.92

DIFFERENTIAL CORRECTIONS

TDE -.2125 TRA -.4504 TC3 -.0181 BAU .3543
 RDE .0988 RRA .3972 RC3 1.0902 FAU .11188
 FDE-1.5680 FRA-1.0279 FC3-3.9849 BSP .3597
 BDE .2343 BRA .6006 BC3 1.0903 FSP -1197

MID-COURSE EXECUTION ACCURACY

SGT 583.5 SGR 1177.2 SG3 388.5
 RRT -.4277 RRF -.9437 RTF .4411
 SGB 1313.9 R23 .0630 R13 -.9425
 SG1 1209.5 SG2 513.4 THA 104.67

ORBIT DETERMINATION ACCURACY

ST 293.4 SR 183.7 SS 679.9
 CRT -.9371 CRS .7705 CST -.9288
 LSA 748.6 MSA 144.5 SSA 27.8
 EL1 341.8 EL2 55.1 ALF 148.69

LAUNCH DATE FEB 21 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 279.985

RL 147.96 LAL .00 LOL 152.19 VL 28.154 GAL -7.99 AZL 91.77 HCA 128.30 SMA 132.55 ECC .18052 INC 1.7679 V1 30.112
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.913 GAP -1.42 AZP 88.90 TAL 222.38 TAP 350.67 RCA 108.62 APO 156.48 V2 34.816
 RC 82.981 GL -10.07 GP 41.19 ZAL 150.78 ZAP 75.38 ETS 349.81 ZAE 139.31 ETE 83.89 ZAC 104.70 ETC 148.45 CLP -70.41

PLANETOCENTRIC CONIC

C3 24.213 VHL 4.921 DLA -9.32 RAL 3.82 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 4.209 OPA 46.09 RAP 7.42 ECC 1.3985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 1 1967.29 -12.90 26.40 226.72 115.43 3 17 49 1367.3 -9.37 19.50
 90.00 12 21 32 5197.97 26.10 233.11 231.46 78.60 13 48 10 4598.0 24.26 224.92
 100.00 4 1 48 1719.60 -14.02 7.62 226.16 116.67 4 30 27 1119.6 -10.33 .78
 100.00 13 47 27 4920.89 27.31 212.44 231.17 77.35 15 9 28 4320.9 25.30 204.22
 110.00 4 59 39 1538.46 -16.97 352.23 224.51 120.13 5 25 17 938.5 -12.84 345.55
 110.00 15 6 5 4674.80 30.56 192.80 230.22 73.88 16 24 0 4074.8 28.05 184.51

DIFFERENTIAL CORRECTIONS

TDE -.2624 TRA -.4940 TC3 -.1563 BAU .3837
 RDE .1646 RRA .3976 RC3 1.1749 FAU .11218
 FDE-1.6877 FRA -.9831 FC3-4.0111 BSP 4003
 BDE .3097 BRA .6341 BC3 1.1852 FSP -1227

MID-COURSE EXECUTION ACCURACY

SGT 675.8 SGR 1262.4 SG3 394.0
 RRT -.5977 RRF -.9529 RTF .6114
 SGB 1431.9 R23 .0863 R13 -.9504
 SG1 1337.5 SG2 511.4 THA 110.95

ORBIT DETERMINATION ACCURACY

ST 352.0 SR 240.3 SS 727.0
 CRT -.9850 CRS .8945 CST -.9403
 LSA 830.8 MSA 139.4 SSA 26.3
 EL1 424.9 EL2 34.4 ALF 145.83

LAUNCH DATE FEB 21 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 286.340

RL 147.96 LAL .00 LOL 152.19 VL 28.154 GAL -7.92 AZL 92.08 HCA 131.45 SMA 132.56 ECC .17951 INC 2.0768 V1 30.112
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.908 GAP -.97 AZP 88.62 TAL 222.19 TAP 353.64 RCA 108.76 APO 156.35 V2 34.810
 RC 85.328 GL -11.86 GP 43.36 ZAL 149.99 ZAP 79.80 ETS 353.18 ZAE 137.24 ETE 89.96 ZAC 102.07 ETC 149.77 CLP -75.90

PLANETOCENTRIC CONIC

C3 24.175 VHL 4.917 DLA -10.88 RAL 4.74 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 4.228 OPA 46.92 RAP 3.59 ECC 1.3979
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 19 1915.64 -11.37 23.37 227.57 116.11 3 33 15 1315.6 -7.77 16.55
 90.00 12 12 33 5248.84 26.73 236.70 233.00 80.29 13 40 2 4648.8 25.12 228.40
 100.00 4 17 13 1670.79 -12.51 4.79 226.99 117.37 4 45 4 1070.8 -8.74 358.02
 100.00 13 39 20 4968.92 27.98 215.85 232.75 79.03 15 2 9 4368.9 26.18 207.52
 110.00 5 13 7 1495.75 -15.49 349.79 225.27 120.86 5 38 2 895.7 -11.29 343.21
 110.00 14 59 56 4716.73 31.31 195.84 231.88 75.53 16 18 32 4116.7 29.01 187.39

DIFFERENTIAL CORRECTIONS

TDE -.3265 TRA -.5386 TC3 -.3073 BAU .4150
 RDE .2331 RRA .3889 RC3 1.2468 FAU .11044
 FDE-1.7844 FRA -.9081 FC3-3.9549 BSP 4423
 BDE .4011 BRA .6643 BC3 1.2841 FSP -1227

MID-COURSE EXECUTION ACCURACY

SGT 802.9 SGR 1337.9 SG3 392.2
 RRT -.7157 RRF -.9599 RTF .7284
 SGB 1560.3 R23 .1053 R13 -.9560
 SG1 1475.1 SG2 508.6 THA 116.66

ORBIT DETERMINATION ACCURACY

ST 426.1 SR 307.1 SS 769.9
 CRT -.9951 CRS .9485 CST -.9510
 LSA 921.8 MSA 135.2 SSA 24.6
 EL1 524.7 EL2 24.6 ALF 144.26

LAUNCH DATE FEB 21 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 292.666

RL 147.96 LAL .00 LOL 152.19 VL 28.150 GAL -7.83 AZL 92.42 HCA 134.61 SMA 132.52 ECC .17861 INC 2.4171 V1 30.112
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.899 GAP -.53 AZP 88.30 TAL 221.89 TAP 356.50 RCA 108.85 APO 156.19 V2 34.804
 RC 87.691 GL -13.83 GP 45.50 ZAL 148.97 ZAP 83.99 ETS 356.77 ZAE 134.90 ETE 95.63 ZAC 99.50 ETC 151.20 CLP -81.41

PLANETOCENTRIC CONIC

C3 24.210 VHL 4.920 OLA -12.57 RAL 5.82 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 4.285 DPA 47.70 RAP 359.75 ECC 1.3984
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 44 1859.53 -9.67 20.13 228.71 116.74 3 50 43 1259.5 -6.01 13.37
 90.00 12 2 47 5305.67 27.32 240.75 234.85 82.24 13 31 13 4705.7 25.96 232.35
 100.00 4 34 36 1617.96 -10.84 1.76 228.09 118.03 5 1 34 1018.0 -7.00 355.06
 100.00 13 30 36 5022.47 28.61 219.71 234.63 80.96 14 54 18 4422.5 27.07 211.25
 110.00 5 28 16 1449.90 -13.87 347.23 226.31 121.56 5 52 26 849.9 -9.60 340.74
 110.00 14 53 25 4763.30 32.05 199.27 233.87 77.43 16 12 49 4163.3 29.99 190.66

DIFFERENTIAL CORRECTIONS

TDE -.4054 TRA -.5812 TC3 -.4649 BAU .4481
 RDE .3053 RRA .3712 RC3 1.3041 FAU .10689
 FDE -1.8611 FRA -.8102 FC3 -3.8223 BSP 4873
 BDE .5075 BRA .6897 BC3 1.3845 FSP -1205

MID-COURSE EXECUTION ACCURACY

SGT 955.5 SGR 1403.4 SG3 384.3
 RRT -.7921 RRF -.9654 RTF .8034
 SGB 1697.8 R23 .1206 R13 -.9600
 SG1 1621.0 SG2 505.0 THA 121.78

ORBIT DETERMINATION ACCURACY

ST 516.0 SR 381.5 SS 810.5
 CRT -.9956 CRS .9738 CST -.9602
 LSA 1025.1 MSA 132.2 SSA 22.6
 EL1 641.1 EL2 28.8 ALF 143.56

LAUNCH DATE FEB 21 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 298.962

RL 147.96 LAL .00 LOL 152.19 VL 28.140 GAL -7.74 AZL 92.80 HCA 137.76 SMA 132.45 ECC .17781 INC 2.7964 V1 30.112
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.887 GAP -.11 AZP 87.93 TAL 221.50 TAP 359.26 RCA 108.90 APO 156.00 V2 34.799
 RC 90.065 GL -16.00 GP 47.61 ZAL 147.69 ZAP 87.91 ETS .57 ZAE 132.34 ETE 100.87 ZAC 97.05 ETC 152.69 CLP -86.90

PLANETOCENTRIC CONIC

C3 24.345 VHL 4.934 OLA -14.40 RAL 7.09 RAD 6568.0 VEL 12.072 PTH 2.16 VHP 4.381 DPA 48.45 RAP 355.96 ECC 1.4007
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 48 1797.58 -7.76 16.59 230.19 117.32 4 10 45 1197.6 -4.03 9.89
 90.00 11 51 50 5370.36 27.83 245.42 237.04 84.53 13 21 20 4770.4 26.78 236.91
 100.00 4 54 27 1559.94 -8.96 358.47 229.54 118.64 5 20 27 959.9 -5.07 351.84
 100.00 13 20 52 5083.22 29.18 224.13 236.87 83.22 14 45 35 4483.2 27.94 215.55
 110.00 5 45 29 1400.11 -12.08 344.48 227.67 122.22 6 8 49 800.1 -7.74 338.07
 110.00 14 46 20 4815.82 32.76 203.20 236.25 79.66 16 6 35 4215.8 30.99 194.43

DIFFERENTIAL CORRECTIONS

TDE -.5011 TRA -.6192 TC3 -.6243 BAU .4830
 RDE .3831 RRA .3457 RC3 1.3463 FAU .10194
 FDE -1.9217 FRA -.6991 FC3 -3.6252 BSP 5385
 BDE .6308 BRA .7092 BC3 1.4840 FSP -1175

MID-COURSE EXECUTION ACCURACY

SGT 1126.6 SGR 1461.1 SG3 371.4
 RRT -.8414 RRF -.9701 RTF .8516
 SGB 1845.0 R23 .1329 R13 -.9632
 SG1 1775.7 SG2 500.9 THA 126.32

ORBIT DETERMINATION ACCURACY

ST 623.4 SR 463.6 SS 850.9
 CRT -.9941 CRS .9865 CST -.9680
 LSA 1144.6 MSA 130.6 SSA 20.4
 EL1 775.8 EL2 40.4 ALF 143.41

LAUNCH DATE FEB 21 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 305.229

RL 147.96 LAL .00 LOL 152.19 VL 28.125 GAL -7.64 AZL 93.22 HCA 140.91 SMA 132.34 ECC .17711 INC 3.2246 V1 30.112
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.872 GAP .29 AZP 87.50 TAL 221.01 TAP 1.92 RCA 108.90 APO 155.78 V2 34.795
 RC 92.449 GL -18.42 GP 49.72 ZAL 146.12 ZAP 91.49 ETS 4.57 ZAE 129.60 ETE 105.65 ZAC 94.72 ETC 154.20 CLP -92.31

PLANETOCENTRIC CONIC

C3 24.618 VHL 4.962 OLA -16.41 RAL 8.57 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 4.520 DPA 49.23 RAP 352.22 ECC 1.4051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 20 1727.85 -5.56 12.64 232.10 117.81 4 34 8 1127.9 -1.79 5.99
 90.00 11 39 5 5445.55 28.19 250.89 239.63 87.24 13 9 51 4845.5 27.51 242.29
 100.00 5 17 27 1495.16 -6.83 354.84 231.41 119.17 5 42 22 895.2 -2.89 348.27
 100.00 13 9 40 5153.47 29.64 229.31 239.53 85.91 14 35 33 4553.5 28.75 220.61
 110.00 6 5 17 1345.34 -10.08 341.51 229.44 122.84 6 27 42 745.3 -5.68 335.18
 110.00 14 38 20 4876.05 33.41 207.78 239.08 82.30 15 59 36 4276.1 31.98 198.84

DIFFERENTIAL CORRECTIONS

TDE -.6165 TRA -.6500 TC3 -.7794 BAU .5169
 RDE .4629 RRA .3081 RC3 1.3635 FAU .09528
 FDE -1.9546 FRA -.5691 FC3 -3.3507 BSP 5866
 BDE .7710 BRA .7193 BC3 1.5705 FSP -1115

MID-COURSE EXECUTION ACCURACY

SGT 1310.4 SGR 1501.4 SG3 352.2
 RRT -.8728 RRF -.9737 RTF .8825
 SGB 1992.8 R23 .1445 R13 -.9652
 SG1 1929.7 SG2 497.5 THA 130.56

ORBIT DETERMINATION ACCURACY

ST 750.0 SR 547.5 SS 885.9
 CRT -.9927 CRS .9930 CST -.9741
 LSA 1276.6 MSA 130.4 SSA 18.0
 EL1 927.1 EL2 53.5 ALF 143.93

LAUNCH DATE FEB 21 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 311.468

RL 147.96 LAL .00 LOL 152.19 VL 28.107 GAL -7.53 AZL 93.71 HCA 144.06 SMA 132.20 ECC .17648 INC 3.7149 V1 30.112
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.855 GAP .67 AZP 86.99 TAL 220.43 TAP 4.49 RCA 108.87 APO 155.54 V2 34.791
 RC 94.840 GL -21.13 GP 51.87 ZAL 144.24 ZAP 94.68 ETS 8.75 ZAE 126.71 ETE 109.98 ZAC 92.53 ETC 155.73 CLP -97.59

PLANETOCENTRIC CONIC

C3 25.084 VHL 5.008 OLA -18.63 RAL 10.30 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 4.706 DPA 50.07 RAP 348.52 ECC 1.4128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 35 1647.41 -2.99 8.13 234.59 118.17 5 2 2 1047.4 .80 1.50
 90.00 11 23 36 5535.22 28.31 257.44 242.68 90.53 12 55 51 4935.2 28.09 248.79
 100.00 5 44 39 1421.29 -4.36 350.75 233.83 119.60 6 8 21 821.3 -.39 344.22
 100.00 12 56 13 5236.57 29.88 235.47 242.67 89.14 14 23 29 4636.6 29.44 226.69
 110.00 6 28 23 1284.27 -7.81 358.24 231.70 123.39 6 49 47 684.3 -3.36 331.97
 110.00 14 28 58 4946.36 33.92 213.21 242.45 85.47 15 51 25 4346.4 32.92 204.11

DIFFERENTIAL CORRECTIONS

TDE -.7554 TRA -.6704 TC3 -.9230 BAU .5510
 RDE .5497 RRA .2615 RC3 1.3592 FAU .08768
 FDE -1.9725 FRA -.4354 FC3 -3.0263 BSP 6398
 BDE .9342 BRA .7196 BC3 1.6430 FSP -1051

MID-COURSE EXECUTION ACCURACY

SGT 1502.1 SGR 1532.6 SG3 329.7
 RRT -.8938 RRF -.9769 RTF .9034
 SGB 2146.0 R23 .1544 R13 -.9670
 SG1 2088.2 SG2 494.4 THA 134.36

ORBIT DETERMINATION ACCURACY

ST 898.0 SR 637.2 SS 920.5
 CRT -.9917 CRS .9965 CST -.9792
 LSA 1429.1 MSA 131.6 SSA 15.6
 EL1 1099.1 EL2 66.8 ALF 144.71

LAUNCH DATE FEB 21 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 317.680

RL 147.96 LAL .00 LOL 152.19 VL 28.085 GAL -7.41 AZL 94.29 MCA 147.21 SMA 132.04 ECC .17593 INC 4.2856 V1 30.112
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.836 GAP 1.04 AZP 86.40 TAL 219.76 TAP 6.97 RCA 108.81 APO 155.27 V2 34.788
 RC 97.236 GL -24.17 GP 54.12 ZAL 141.99 ZAP 97.43 ETS 13.12 ZAE 123.67 ETE 113.91 ZAC 90.46 ETC 157.24 CLP-102.75

PLANETOCENTRIC CONIC

C3 25.829 VHL 5.082 OLA -21.11 RAL 12.31 RAD 6568.0 VEL 12.133 PTH 2.17 VHP 4.948 OPA 51.03 RAP 344.81 ECC 1.4251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 38 1551.07 .12 2.75 237.84 118.32 5 36 29 951.1 3.90 356.12
 90.00 11 3 38 5646.02 27.98 265.53 246.22 94.57 12 37 44 5046.0 28.32 256.88
 100.00 6 17 43 1334.56 -1.43 345.98 236.98 119.86 6 39 57 734.6 2.55 339.46
 100.00 12 39 14 5337.76 29.75 242.99 246.35 93.10 14 8 11 4737.8 29.86 234.18
 110.00 6 55 51 1215.02 -5.20 334.57 234.64 123.83 7 16 6 615.0 -7.2 328.35
 110.00 14 17 34 5030.07 34.18 219.73 246.46 89.32 15 41 25 4430.1 33.71 210.52

DIFFERENTIAL CORRECTIONS

TDE -.9228 TRA -.6767 TC3-1.0460 BAU .5828
 RDE .6412 RRA .2021 RC3 1.3245 FAU .07903
 FDE-1.9682 FRA -.2960 FC3-2.6490 BSP 6903
 BOE 1.1237 BRA .7063 BC3 1.6877 FSP -968

MID-COURSE EXECUTION ACCURACY

SGT 1697.5 SGR 1547.5 SG3 303.0
 RRT -.9072 RRF -.9795 RTF .9177
 SGB 2297.0 R23 .1642 R13 -.9681
 SG1 2243.6 SG2 492.4 THA 137.92

ORBIT DETERMINATION ACCURACY

ST 1069.4 SR 727.7 SS 950.4
 CRT -.9912 CRS .9984 CST -.9833
 LSA 1599.5 MSA 134.1 SSA 13.2
 EL1 1291.0 EL2 79.9 ALF 145.85

LAUNCH DATE FEB 21 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 323.864

RL 147.96 LAL .00 LOL 152.19 VL 28.060 GAL -7.29 AZL 94.96 MCA 150.35 SMA 131.85 ECC .17544 INC 4.9626 V1 30.112
 RP 108.94 LAP -2.45 LOP 302.64 VP 37.815 GAP 1.39 AZP 85.68 TAL 219.02 TAP 9.37 RCA 108.72 APO 154.99 V2 34.786
 RC 99.636 GL -27.61 GP 56.52 ZAL 139.32 ZAP 99.69 ETS 17.69 ZAE 120.48 ETE 117.51 ZAC 88.49 ETC 158.78 CLP-107.77

PLANETOCENTRIC CONIC

C3 26.989 VHL 5.195 OLA -23.87 RAL 14.68 RAD 6568.1 VEL 12.181 PTH 2.19 VHP 5.259 OPA 52.14 RAP 340.98 ECC 1.4442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 48 1427.36 4.10 355.84 242.24 118.04 6 21 36 827.4 7.82 349.14
 90.00 10 35 20 5791.51 26.75 275.99 250.20 99.67 12 11 52 5191.5 27.81 267.49
 100.00 6 59 42 1227.56 2.20 340.11 241.19 119.82 7 20 9 627.6 6.15 333.55
 100.00 12 16 8 5466.53 28.90 252.46 250.58 98.01 13 47 15 4866.5 29.70 243.75
 110.00 7 29 20 1134.61 -2.13 330.36 238.48 124.12 7 48 15 534.6 2.36 324.16
 110.00 14 2 59 5132.26 33.97 227.70 251.20 94.03 15 28 31 4532.3 34.16 218.46

DIFFERENTIAL CORRECTIONS

TDE-1.1277 TRA -.6649 TC3-1.1394 BAU .6129
 RDE .7415 RRA .1313 RC3 1.2598 FAU .06989
 FDE-1.9493 FRA -.1612 FC3-2.2420 BSP 7431
 BOE 1.3497 BRA .6778 BC3 1.6986 FSP -880

MID-COURSE EXECUTION ACCURACY

SGT 1895.2 SGR 1551.5 SG3 274.4
 RRT -.9161 RRF -.9819 RTF .9284
 SGB 2449.2 R23 .1725 R13 -.9693
 SG1 2399.5 SG2 491.3 THA 141.20

ORBIT DETERMINATION ACCURACY

ST 1267.3 SR 820.1 SS 977.8
 CRT -.9910 CRS .9994 CST -.9866
 LSA 1793.2 MSA 137.4 SSA 10.9
 EL1 1506.7 EL2 92.4 ALF 147.19

LAUNCH DATE FEB 21 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 330.020

RL 147.96 LAL .00 LOL 152.19 VL 28.032 GAL -7.15 AZL 95.78 MCA 153.49 SMA 131.65 ECC .17501 INC 5.7838 V1 30.112
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.793 GAP 1.73 AZP 84.82 TAL 218.20 TAP 11.69 RCA 108.61 APO 154.69 V2 34.784
 RC 102.038 GL -31.50 GP 59.14 ZAL 136.18 ZAP 101.43 ETS 22.51 ZAE 117.13 ETE 120.88 ZAC 86.59 ETC 160.40 CLP-112.73

PLANETOCENTRIC CONIC

C3 28.783 VHL 5.365 OLA -26.96 RAL 17.49 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 5.659 OPA 53.41 RAP 336.88 ECC 1.4737
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 48 1233.06 10.19 344.81 248.70 116.56 7 31 21 633.1 13.68 337.87
 90.00 9 44 45 729.83 23.20 313.70 254.07 106.70 9 56 54 129.8 25.27 305.64
 100.00 7 58 16 1079.73 7.16 331.94 247.08 119.10 8 16 16 479.7 10.98 325.24
 100.00 11 39 58 5646.44 26.51 265.29 255.08 104.34 13 14 4 5046.4 28.22 256.90
 110.00 8 11 46 1037.38 1.58 325.29 243.64 124.15 8 29 3 437.4 6.05 319.06
 110.00 13 42 58 5261.56 32.91 237.64 256.66 99.81 15 10 39 4661.6 33.91 228.54

DIFFERENTIAL CORRECTIONS

TDE-1.3821 TRA -.6278 TC3-1.1899 BAU .6385
 RDE .8486 RRA .0439 RC3 1.1563 FAU .06023
 FDE-1.9118 FRA -.0292 FC3-1.8116 BSP 7912
 BOE 1.6218 BRA .6293 BC3 1.6592 FSP -780

MID-COURSE EXECUTION ACCURACY

SGT 2091.6 SGR 1537.3 SG3 243.6
 RRT -.9210 RRF -.9838 RTF .9364
 SGB 2595.8 R23 .1804 R13 -.9702
 SG1 2548.8 SG2 491.5 THA 144.38

ORBIT DETERMINATION ACCURACY

ST 1493.7 SR 907.2 SS 998.7
 CRT -.9909 CRS .9998 CST -.9893
 LSA 2007.8 MSA 141.5 SSA 8.8
 EL1 1744.5 EL2 104.6 ALF 148.84

LAUNCH DATE FEB 21 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 336.148

RL 147.96 LAL .00 LOL 152.19 VL 28.001 GAL -7.01 AZL 96.81 MCA 156.62 SMA 131.42 ECC .17464 INC 6.8075 V1 30.112
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.769 GAP 2.06 AZP 83.75 TAL 217.31 TAP 13.93 RCA 108.47 APO 154.37 V2 34.783
 RC 104.441 GL -35.88 GP 62.05 ZAL 132.50 ZAP 102.60 ETS 27.68 ZAE 113.55 ETE 124.19 ZAC 84.68 ETC 162.22 CLP-117.73

PLANETOCENTRIC CONIC

C3 31.590 VHL 5.620 OLA -30.38 RAL 20.85 RAD 6568.3 VEL 12.368 PTH 2.23 VHP 6.181 OPA 54.84 RAP 332.29 ECC 1.5199
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.52 7 8 40 1302.79 17.90 353.76 257.40 114.96 7 30 23 702.8 21.11 346.40
 101.48 10 13 44 706.77 17.91 309.86 257.40 114.95 10 25 30 106.8 21.13 302.50
 78.52 7 8 40 1302.79 17.90 353.76 257.40 114.96 7 30 23 702.8 21.11 346.40
 101.48 10 13 44 706.77 17.91 309.86 257.40 114.95 10 25 30 106.8 21.13 302.50
 110.00 9 9 45 908.29 6.49 318.52 250.87 123.64 9 24 53 308.3 10.87 312.16
 110.00 13 11 49 5437.30 30.12 250.56 262.51 106.98 14 42 27 4837.3 32.15 241.93

DIFFERENTIAL CORRECTIONS

TDE-1.7079 TRA -.5577 TC3-1.1875 BAU .6598
 RDE .9643 RRA -.0594 RC3 1.0152 FAU .05057
 FDE-1.8624 FRA .0902 FC3-1.3859 BSP 8424
 BOE 1.9613 BRA .5608 BC3 1.5623 FSP -681

MID-COURSE EXECUTION ACCURACY

SGT 2290.7 SGR 1507.8 SG3 212.4
 RRT -.9232 RRF -.9852 RTF .9438
 SGB 2742.4 R23 .1853 R13 -.9717
 SG1 2697.9 SG2 492.1 THA 147.50

ORBIT DETERMINATION ACCURACY

ST 1752.7 SR 983.8 SS 1014.3
 CRT -.9909 CRS .9999 CST -.9916
 LSA 2246.6 MSA 145.4 SSA 7.0
 EL1 2006.6 EL2 115.6 ALF 150.81

LAUNCH DATE FEB 21 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 342.246

RL 147.96 LAL .00 LOL 152.19 VL 27.967 GAL -6.85 AZL 98.13 HCA 159.74 SMA 131.18 ECC .17431 INC 8.1272 V1 30.112
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.744 GAP 2.37 AZP 82.37 TAL 216.35 TAP 16.09 RCA 108.31 APO 154.04 V2 34.783
 RC 106.844 GL -40.79 GP 65.33 ZAL 128.22 ZAP 103.15 ETS 33.39 ZAE 109.68 ETE 127.71 ZAC 82.69 ETC 164.49 CLP-123.04

PLANETOCENTRIC CONIC

C3 36.103 VHL 6.009 CLA -34.10 RAL 24.94 RAD 6568.4 VEL 12.549 PTH 2.27 VHP 6.879 DPA 56.38 RAP 326.88 ECC 1.5942
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.15 6 28 44 1511.99 18.83 10.19 264.69 118.98 6 53 56 912.0 22.54 3.03
 109.85 11 26 17 5852.97 18.84 277.47 264.70 118.97 13 3 50 5253.0 22.56 270.31
 70.15 6 28 44 1511.99 18.83 10.19 264.69 118.98 6 53 56 912.0 22.54 3.03
 109.85 11 26 17 5852.97 18.84 277.47 264.70 118.97 13 3 50 5253.0 22.56 270.31
 110.00 11 9 32 615.98 17.07 302.50 263.65 120.07 11 19 48 16.0 20.94 295.50
 110.00 11 44 39 5796.98 20.61 274.11 265.72 117.89 13 21 16 5197.0 24.17 266.78

DIFFERENTIAL CORRECTIONS

TDE-2.1370 TRA -.4364 TC3-1.1178 BAU .6721
 RDE 1.0766 RRA -.1860 RC3 .8304 FAU .04090
 FDE-1.7977 FRA .1998 FC3 -.9808 BSP 8881
 BDE 2.3929 BRA .4744 BC3 1.3925 FSP -577

MID-COURSE EXECUTION ACCURACY

SGT 2491.9 SGR 1447.7 SG3 180.8
 RRT -.9217 RRF -.9853 RTF .9511
 SGB 2881.9 R23 .1871 R13 -.9737
 SG1 2839.4 SG2 492.9 THA 150.87

ORBIT DETERMINATION ACCURACY

ST 2043.7 SR 1029.1 SS 1019.9
 CRT -.9907 CRS .9997 CST -.9935
 LSA 2500.8 MSA 149.0 SSA 5.5
 EL1 2284.7 EL2 125.4 ALF 153.40

LAUNCH DATE FEB 21 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 348.309

RL 147.96 LAL .00 LOL 152.19 VL 27.932 GAL -6.69 AZL 99.90 HCA 162.85 SMA 130.92 ECC .17401 INC 9.9037 V1 30.112
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.718 GAP 2.67 AZP 80.53 TAL 215.32 TAP 18.17 RCA 108.14 APO 153.70 V2 34.784
 RC 109.246 GL -46.20 GP 69.08 ZAL 123.34 ZAP 103.04 ETS 40.10 ZAE 105.41 ETE 132.00 ZAC 80.50 ETC 167.73 CLP-129.20

PLANETOCENTRIC CONIC

C3 43.704 VHL 6.611 CLA -38.03 RAL 29.96 RAD 6568.7 VEL 12.848 PTH 2.34 VHP 7.852 DPA 57.91 RAP 320.22 ECC 1.7192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.47 6 12 8 1669.36 18.97 22.86 273.87 123.60 6 39 58 1069.4 23.25 16.03
 116.53 12 22 56 5792.07 18.99 272.70 273.88 123.59 13 59 28 5192.1 23.27 265.87
 63.47 6 12 8 1669.36 18.97 22.86 273.87 123.60 6 39 58 1069.4 23.25 16.03
 116.53 12 22 56 5792.07 18.99 272.70 273.88 123.59 13 59 28 5192.1 23.27 265.87
 63.47 6 12 8 1669.36 18.97 22.86 273.87 123.60 6 39 58 1069.4 23.25 16.03
 116.53 12 22 56 5792.07 18.99 272.70 273.88 123.59 13 59 28 5192.1 23.27 265.87

DIFFERENTIAL CORRECTIONS

TDE-2.7290 TRA -.2360 TC3 -.9752 BAU .6719
 RDE 1.1565 FRA -.3358 RC3 .6095 FAU .03164
 FDE-1.7249 FRA .2948 FC3 -.6268 BSP 9366
 BDE 2.9640 BRA .4104 BC3 1.1500 FSP -479

MID-COURSE EXECUTION ACCURACY

SGT 2706.3 SGR 1338.1 SG3 150.3
 RRT -.9151 RRF -.9820 RTF .9600
 SGB 3019.1 R23 .1822 R13 -.9769
 SG1 2979.0 SG2 490.3 THA 154.93

ORBIT DETERMINATION ACCURACY

ST 2366.8 SR 1008.7 SS 1016.6
 CRT -.9898 CRS .9990 CST -.9952
 LSA 2762.2 MSA 150.8 SSA 4.2
 EL1 2569.4 EL2 132.6 ALF 157.06

LAUNCH DATE FEB 21 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 354.330

RL 147.96 LAL .00 LOL 152.19 VL 27.894 GAL -6.51 AZL 102.44 HCA 165.94 SMA 130.65 ECC .17374 INC12.4359 V1 30.112
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.692 GAP 2.95 AZP 77.93 TAL 214.22 TAP 20.16 RCA 107.95 APO 153.35 V2 34.785
 RC 111.645 GL -51.35 GP 73.34 ZAL 117.86 ZAP 102.24 ETS 48.94 ZAE 100.56 ETE 138.28 ZAC 77.92 ETC 173.18 CLP-137.69

PLANETOCENTRIC CONIC

C3 57.444 VHL 7.579 CLA -41.90 RAL 36.17 RAD 6569.0 VEL 13.372 PTH 2.44 VHP 9.283 DPA 59.16 RAP 311.75 ECC 1.9454
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.73 6 10 29 1812.10 17.79 34.02 285.21 128.58 6 40 41 1212.1 22.65 27.67
 122.27 13 14 9 5785.45 17.80 271.23 285.22 128.58 14 50 35 5185.5 22.67 264.87
 57.73 6 10 29 1812.10 17.79 34.02 285.21 128.58 6 40 41 1212.1 22.65 27.67
 122.27 13 14 9 5785.45 17.80 271.23 285.22 128.58 14 50 35 5185.5 22.67 264.87
 57.73 6 10 29 1812.10 17.79 34.02 285.21 128.58 6 40 41 1212.1 22.65 27.67
 122.27 13 14 9 5785.45 17.80 271.23 285.22 128.58 14 50 35 5185.5 22.67 264.87

DIFFERENTIAL CORRECTIONS

TDE-3.5820 TRA .1124 TC3 -.7568 BAU .6446
 RDE 1.0851 RRA -.5014 RC3 .3631 FAU .02279
 FDE-1.6477 FRA .3821 FC3 -.3435 BSP 9761
 BDE 3.7428 BRA .5138 BC3 .8394 FSP -383

MID-COURSE EXECUTION ACCURACY

SGT 2943.1 SGR 1111.3 SG3 121.4
 RRT -.8899 RRF -.9646 RTF .9711
 SGB 3145.9 R23 .1683 R13 -.9814
 SG1 3109.1 SG2 479.8 THA 160.95

ORBIT DETERMINATION ACCURACY

ST 2708.3 SR 834.5 SS 1003.4
 CRT -.9853 CRS .9958 CST -.9908
 LSA 3002.6 MSA 149.9 SSA 3.1
 EL1 2830.7 EL2 136.4 ALF 163.67

LAUNCH DATE FEB 21 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 360.290

RL 147.96 LAL .00 LOL 152.19 VL 27.855 GAL -6.31 AZL 106.35 HCA 168.99 SMA 130.37 ECC .17344 INC16.3463 V1 30.112
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.665 GAP 3.21 AZP 73.94 TAL 213.03 TAP 22.02 RCA 107.76 APO 152.98 V2 34.787
 RC 114.042 GL -57.62 GP 77.98 ZAL 111.91 ZAP 100.73 ETS 63.22 ZAE 94.82 ETE 150.01 ZAC 74.63 ETC 184.30 CLP-153.30

PLANETOCENTRIC CONIC

C3 85.123 VHL 9.226 CLA -45.15 RAL 43.77 RAD 6569.7 VEL 14.369 PTH 2.61 VHP 11.552 DPA 59.58 RAP 300.89 ECC 2.4009
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.23 6 22 51 1952.87 14.65 43.81 298.68 133.20 6 55 24 1352.9 20.04 38.03
 126.77 14 2 25 5830.32 14.67 272.42 298.70 133.20 15 39 35 5230.3 20.05 266.64
 53.23 6 22 51 1952.87 14.65 43.81 298.68 133.20 6 55 24 1352.9 20.04 38.03
 126.77 14 2 25 5830.32 14.67 272.42 298.70 133.20 15 39 35 5230.3 20.05 266.64
 53.23 6 22 51 1952.87 14.65 43.81 298.68 133.20 6 55 24 1352.9 20.04 38.03
 126.77 14 2 25 5830.32 14.67 272.42 298.70 133.20 15 39 35 5230.3 20.05 266.64

DIFFERENTIAL CORRECTIONS

TDE-4.8457 TRA .7572 TC3 -.4780 BAU .5627
 RDE .3995 RRA -.5766 RC3 .1264 FAU .01449
 FDE-1.5895 FRA .4712 FC3 -.1474 BSP 10182
 BDE 4.8621 BRA .9517 BC3 .4944 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 3205.9 SGR 611.3 SG3 95.4
 RRT -.6586 RRF -.7684 RTF .9845
 SGB 3263.7 R23 .1417 R13 -.9872
 SG1 3231.6 SG2 456.4 THA 172.70

ORBIT DETERMINATION ACCURACY

ST 3016.0 SR 291.2 SS 993.0
 CRT -.8849 CRS .9109 CST -.9983
 LSA 3185.3 MSA 144.8 SSA 2.3
 EL1 3027.0 EL2 135.1 ALF 175.11

LAUNCH DATE FEB 21 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 366.141

RL 147.96 LAL .00 LOL 152.19 VL 27.814 GAL -6.09 AZL 113.14 MCA 171.95 SMA 130.08 ECC .17304 INC23.1391 V1 30.112
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.637 GAP 3.43 AZP 67.07 TAL 211.73 TAP 23.67 RCA 107.57 APO 152.59 V2 34.790
 RC 116.435 GL -62.15 GP 81.26 ZAL 105.72 ZAP 98.53 ETS 93.33 ZAE 87.46 ETE 177.69 ZAC 69.89 ETC 211.77 CLP 167.36

PLANETOCENTRIC CONIC

C3 151.096 VHL 12.292 DLA -46.68 RAL 52.54 RAD 6570.6 VEL 16.505 PTH 2.88 VHP 15.573 OPA 58.01 RAP 287.43 ECC 3.4867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.19 6 50 20 2088.82 9.39 51.23 313.56 135.95 7 25 9 1488.8 15.08 45.89
 128.81 14 44 54 639.81 9.40 298.33 313.57 135.94 14 55 34 39.8 15.10 293.00
 51.19 6 50 20 2088.82 9.39 51.23 313.56 135.95 7 25 9 1488.8 15.08 45.89
 128.81 14 44 54 639.81 9.40 298.33 313.57 135.94 14 55 34 39.8 15.10 293.00
 51.19 6 50 20 2088.82 9.39 51.23 313.56 135.95 7 25 9 1488.8 15.08 45.89
 128.81 14 44 54 639.81 9.40 298.33 313.57 135.94 14 55 34 39.8 15.10 293.00

DIFFERENTIAL CORRECTIONS

TDE-5.8729 TRA 1.9146 TC3 -.1657 BAU .3358
 RDE-2.9536 RRA .1322 RC3 -.0125 FAU .00581
 FDE-1.6003 FRA .6052 FC3 -.0333 BSP 10473
 BDE 6.5738 BRA 1.9191 BC3 .1662 FSP -233

MID-COURSE EXECUTION ACCURACY

SGT 3058.1 SGR 1380.0 SG3 73.9
 RRT .9237 RRF .9031 RTF .9975
 SGB 3355.1 R23 -.1102 R13 .9925
 SG1 3319.5 SG2 487.1 THA 23.15

ORBIT DETERMINATION ACCURACY

ST 2765.2 SR 1377.0 SS 1017.3
 CRT .9926 CRS -.9896 CST -.9998
 LSA 3248.5 MSA 156.8 SSA 1.8
 EL1 3085.4 EL2 150.3 ALF 26.37

LAUNCH DATE FEB 21 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 371.731

RL 147.96 LAL .00 LOL 152.19 VL 27.772 GAL -5.81 AZL 127.23 MCA 174.67 SMA 129.79 ECC .17223 INC37.2273 V1 30.112
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.610 GAP 3.58 AZP 52.89 TAL 210.18 TAP 24.86 RCA 107.43 APO 152.14 V2 34.794
 RC 118.823 GL -62.46 GP 75.93 ZAL 99.75 ZAP 95.80 ETS 142.76 ZAE 76.44 ETE 224.81 ZAC 61.72 ETC 259.81 CLP 114.58

PLANETOCENTRIC CONIC

C3 355.358 VHL 18.851 DLA -43.91 RAL 60.89 RAD 6572.0 VEL 21.833 PTH 3.23 VHP 23.921 OPA 51.78 RAP 272.25 ECC 6.8483
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.92 7 37 37 2174.09 3.25 52.96 327.50 133.82 8 13 51 1574.1 8.76 47.55
 125.08 15 4 14 797.51 3.26 306.77 327.51 133.82 15 17 32 197.5 8.77 301.35
 54.92 7 37 37 2174.09 3.25 52.96 327.50 133.82 8 13 51 1574.1 8.76 47.55
 125.08 15 4 14 797.51 3.26 306.77 327.51 133.82 15 17 32 197.5 8.77 301.35
 54.92 7 37 37 2174.09 3.25 52.96 327.50 133.82 8 13 51 1574.1 8.76 47.55
 125.08 15 4 14 797.51 3.26 306.77 327.51 133.82 15 17 32 197.5 8.77 301.35

DIFFERENTIAL CORRECTIONS

TDE-1.2729 TRA 2.2363 TC3 -.0071 BAU .4904
 RDE-9.3393 RRA 3.4278 RC3 .1030 FAU-.00798
 FDE-1.8176 FRA .9219 FC3 .0194 BSP 10497
 BDE 9.4257 BRA 4.0928 BC3 .1032 FSP -186

MID-COURSE EXECUTION ACCURACY

SGT 1020.1 SGR 3209.4 SG3 58.7
 RRT .7491 RRF .9899 RTF .8348
 SGB 3367.6 R23 -.0918 R13 .9957
 SG1 3302.9 SG2 656.7 THA 76.04

ORBIT DETERMINATION ACCURACY

ST 479.4 SR 2871.6 SS 1167.0
 CRT .8870 CRS -.9984 CST -.9117
 LSA 3128.5 MSA 224.4 SSA .6
 EL1 2903.1 EL2 219.0 ALF 81.53

LAUNCH DATE FEB 21 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 376.417

RL 147.96 LAL .00 LOL 152.19 VL 27.729 GAL -5.34 AZL 161.79 MCA 176.55 SMA 129.48 ECC .16989 INC71.7865 V1 30.112
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.582 GAP 3.48 AZP 18.24 TAL 207.88 TAP 24.43 RCA 107.48 APO 151.48 V2 34.798
 RC 121.206 GL -50.42 GP 56.47 ZAL 94.99 ZAP 93.16 ETS 169.09 ZAE 55.84 ETE 247.90 ZAC 44.56 ETC 289.92 CLP 95.72

PLANETOCENTRIC CONIC

C31157.953 VHL 34.029 DLA -30.07 RAL 64.58 RAD 6573.0 VEL 35.766 PTH 3.52 VHP 42.955 OPA 34.17 RAP 258.21 ECC20.0570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.43 10 9 54 1843.59 -.43 23.97 335.31 120.07 10 40 37 1243.6 3.57 17.46
 100.57 13 1 23 1290.72 -.41 343.30 335.32 120.07 13 22 54 690.7 3.59 336.79
 79.43 10 9 54 1843.59 -.43 23.97 335.31 120.07 10 40 37 1243.6 3.57 17.46
 100.57 13 1 23 1290.72 -.41 343.30 335.32 120.07 13 22 54 690.7 3.59 336.79
 110.00 11 59 32 1486.15 -15.16 349.25 326.58 121.01 12 24 18 886.2 -10.94 342.69
 110.00 16 10 56 696.15 14.28 307.03 344.08 121.39 16 22 32 96.2 18.34 300.26

DIFFERENTIAL CORRECTIONS

TDE 4.4341 TRA .6607 TC3 -.0638 BAU 3.1579
 RDE-11.7578 RRA 8.5160 RC3 .1937 FAU-.05102
 FDE-2.3375 FRA 1.8424 FC3 .0381 BSP 9553
 BDE12.5661 BRA 8.5416 BC3 .2040 FSP -168

MID-COURSE EXECUTION ACCURACY

SGT 873.3 SGR 2898.8 SG3 51.2
 RRT -.7260 RRF .9991 RTF -.6971
 SGB 3027.5 R23 -.0860 R13 .9963
 SG1 2970.2 SG2 586.1 THA 102.85

ORBIT DETERMINATION ACCURACY

ST 747.7 SR 2041.5 SS 1514.5
 CRT -.9561 CRS -.9998 CST .9498
 LSA 2640.7 MSA 217.5 SSA .6
 EL1 2164.3 EL2 206.8 ALF 109.48

LAUNCH DATE FEB 21 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 386.812

RL 147.96 LAL .00 LOL 152.19 VL 27.685 GAL -6.03 AZL 32.17 MCA 183.92 SMA 129.17 ECC .17875 INC57.8307 V1 30.112
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.554 GAP 4.96 AZP 147.77 TAL 209.94 TAP 33.87 RCA 106.08 APO 152.26 V2 34.803
 RC 123.581 GL 55.87 GP -64.71 ZAL 96.70 ZAP 95.52 ETS 183.87 ZAE 68.29 ETE 105.35 ZAC 79.17 ETC 74.10 CLP 103.00

PLANETOCENTRIC CONIC

C3 792.676 VHL 28.155 DLA 68.57 RAL 10.42 RAD 6572.8 VEL 30.232 PTH 3.45 VHP 34.727 OPA -81.58 RAP 184.56 ECC14.0454
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.52 14 47 21 5065.13 -.36 245.95 280.29 21.43 16 11 46 4465.1 -7.80 243.42
 155.48 1 11 49 3321.24 -.35 97.65 280.27 21.43 2 7 10 2721.2 -7.80 95.13
 24.52 14 47 21 5065.13 -.36 245.95 280.29 21.43 16 11 46 4465.1 -7.80 243.42
 155.48 1 11 49 3321.24 -.35 97.65 280.27 21.43 2 7 10 2721.2 -7.80 95.13
 24.52 14 47 21 5065.13 -.36 245.95 280.29 21.43 16 11 46 4465.1 -7.80 243.42
 155.48 1 11 49 3321.24 -.35 97.65 280.27 21.43 2 7 10 2721.2 -7.80 95.13

DIFFERENTIAL CORRECTIONS

TDE-1.7148 TRA 1.5356 TC3 -.0768 BAU 2.1820
 RDE-13.4278 RRA 2.4000 RC3 -.1911 FAU-.03110
 FDE 2.6393 FRA -.4480 FC3 .0340 BSP 10477
 BDE13.5369 BRA 2.8492 BC3 .2059 FSP -176

MID-COURSE EXECUTION ACCURACY

SGT 1020.1 SGR 3226.8 SG3 53.8
 RRT .7785 RRF -.9994 RTF -.7618
 SGB 3384.2 R23 -.0735 R13 -.9971
 SG1 3326.7 SG2 621.0 THA 75.66

ORBIT DETERMINATION ACCURACY

ST 433.4 SR 2762.1 SS 1627.2
 CRT .8830 CRS 1.0000 CST .8796
 LSA 3228.6 MSA 203.0 SSA 1.2
 EL1 2788.6 EL2 201.5 ALF 82.07

LAUNCH DATE FEB 21 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

RL 147.96 LAL .00 LOL 152.19 VL 27.640 GAL -5.63 AZL 57.42 HCA 186.24 SMA 128.86 ECC .17719 INC32.5799 V1 30.112
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.526 GAP 4.97 AZP 122.43 TAL 208.00 TAP 34.24 RCA 106.03 APO 151.69 V2 34.808
 RC 125.948 GL 62.87 GP -77.04 ZAL 100.71 ZAP 99.53 ETS 212.99 ZAE 84.80 ETE 133.68 ZAC 92.89 ETC 104.85 CLP 137.56

PLANETOCENTRIC CONIC

C3 276.998 VHL 16.643 DLA 68.21 RAL 345.07 RAD 6571.6 VEL 19.958 PTH 3.14 VHP 20.271 DPA -77.31 RAP 79.88 ECC 5.5587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.94 13 7 9 4971.63 -6.19 243.76 252.60 21.92 14 30 0 4371.6 -13.60 241.12
 155.06 23 25 52 3230.21 -6.18 95.92 252.58 21.92 24 19 42 2630.2 -13.59 93.27
 24.94 13 7 9 4971.63 -6.19 243.76 252.60 21.92 14 30 0 4371.6 -13.60 241.12
 155.06 23 25 52 3230.21 -6.18 95.92 252.58 21.92 24 19 42 2630.2 -13.59 93.27
 24.94 13 7 9 4971.63 -6.19 243.76 252.60 21.92 14 30 0 4371.6 -13.60 241.12
 155.06 23 25 52 3230.21 -6.18 95.92 252.58 21.92 24 19 42 2630.2 -13.59 93.27

DIFFERENTIAL CORRECTIONS

TDE 3.0058 TRA -4.240 TC3 -.0152 BAU .2700
 RDE -5.1356 RRA 3.3256 RC3 -.0713 FAU .00005
 FDE 1.3752 FRA -.6456 FC3 -.0002 BSP 11618
 BDE 5.9505 BRA 3.3525 BC3 .0729 FSP -214

MID-COURSE EXECUTION ACCURACY

SGT 1108.1 SGR 3563.0 SG3 66.0
 RRT -.7675 RRF -.9867 RTF .8576
 SGB 3731.3 R23 -.1101 R13 -.9930
 SG1 3666.9 SG2 690.2 THA 103.93

ORBIT DETERMINATION ACCURACY

ST 1041.5 SR 1995.5 SS 886.8
 CRT -.9328 CRS .9929 CST -.9691
 LSA 2395.5 MSA 338.4 SSA 1.7
 EL1 2225.6 EL2 336.5 ALF 116.62

LAUNCH DATE FEB 21 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

RL 147.96 LAL .00 LOL 152.19 VL 27.594 GAL -5.34 AZL 68.08 HCA 189.08 SMA 128.55 ECC .17688 INC21.9212 V1 30.112
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.498 GAP 5.13 AZP 111.67 TAL 206.41 TAP 35.49 RCA 105.81 APO 151.28 V2 34.815
 RC 128.306 GL 61.88 GP -75.67 ZAL 104.69 ZAP 104.33 ETS 267.65 ZAE 94.38 ETE 187.57 ZAC 100.10 ETC 159.93 CLP 179.59

PLANETOCENTRIC CONIC

C3 135.264 VHL 11.630 DLA 64.41 RAL 341.52 RAD 6570.5 VEL 16.019 PTH 2.82 VHP 14.021 DPA -68.22 RAP 61.56 ECC 3.2261
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.38 13 3 1 4843.74 -12.93 237.95 245.22 26.31 14 23 45 4243.7 -20.07 234.61
 150.62 23 1 39 3132.07 -12.92 95.02 245.20 26.30 23 53 51 2532.1 -20.06 91.67
 29.38 13 3 1 4843.74 -12.93 237.95 245.22 26.31 14 23 45 4243.7 -20.07 234.61
 150.62 23 1 39 3132.07 -12.92 95.02 245.20 26.30 23 53 51 2532.1 -20.06 91.67
 29.38 13 3 1 4843.74 -12.93 237.95 245.22 26.31 14 23 45 4243.7 -20.07 234.61
 150.62 23 1 39 3132.07 -12.92 95.02 245.20 26.30 23 53 51 2532.1 -20.06 91.67

DIFFERENTIAL CORRECTIONS

TDE 3.5885 TRA -2.7400 TC3 -.2006 BAU .3677
 RDE -4.0555 RRA 1.2261 RC3 .0331 FAU .01335
 FDE 1.1042 FRA -.6905 FC3 -.0854 BSP 12194
 BDE 3.6114 BRA 3.0018 BC3 .2033 FSP -275

MID-COURSE EXECUTION ACCURACY

SGT 3620.7 SGR 1414.8 SG3 84.5
 RRT -.9291 RRF -.8860 RTF .9933
 SGB 3887.3 R23 -.1464 R13 -.9875
 SG1 3856.2 SG2 491.1 THA 159.70

ORBIT DETERMINATION ACCURACY

ST 2001.1 SR 464.7 SS 718.5
 CRT -.8028 CRS .7540 CST -.9970
 LSA 2158.2 MSA 281.1 SSA 2.0
 EL1 2036.2 EL2 272.3 ALF 169.25

LAUNCH DATE FEB 21 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

RL 147.96 LAL .00 LOL 152.19 VL 27.548 GAL -5.08 AZL 73.59 HCA 192.08 SMA 128.23 ECC .17700 INC16.4119 V1 30.112
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.470 GAP 5.33 AZP 106.07 TAL 204.91 TAP 37.00 RCA 105.53 APO 150.93 V2 34.821
 RC 130.653 GL 58.66 GP -69.81 ZAL 108.08 ZAP 109.34 ETS 290.10 ZAE 101.23 ETE 208.72 ZAC 104.96 ETC 182.19 CLP-163.67

PLANETOCENTRIC CONIC

C3 82.392 VHL 9.077 DLA 60.79 RAL 344.06 RAD 6569.6 VEL 14.274 PTH 2.60 VHP 10.898 DPA -60.72 RAP 53.56 ECC 2.3560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.66 13 23 26 4722.61 -18.59 231.36 243.23 30.99 14 42 8 4122.6 -25.39 227.22
 146.34 23 1 30 3045.83 -18.58 93.43 243.22 30.98 23 52 16 2445.8 -25.38 89.30
 33.66 13 23 26 4722.61 -18.59 231.36 243.23 30.99 14 42 8 4122.6 -25.39 227.22
 146.34 23 1 30 3045.83 -18.58 93.43 243.22 30.98 23 52 16 2445.8 -25.38 89.30
 33.66 13 23 26 4722.61 -18.59 231.36 243.23 30.99 14 42 8 4122.6 -25.39 227.22
 146.34 23 1 30 3045.83 -18.58 93.43 243.22 30.98 23 52 16 2445.8 -25.38 89.30

DIFFERENTIAL CORRECTIONS

TDE 2.7329 TRA -2.6582 TC3 -.5428 BAU .6013
 RDE .6635 RRA .0875 RC3 -.0581 FAU .02286
 FDE 1.1011 FRA -.7165 FC3 -.2402 BSP 12560
 BDE 2.8123 BRA 2.6597 BC3 .5459 FSP -351

MID-COURSE EXECUTION ACCURACY

SGT 3971.3 SGR 446.5 SG3 106.9
 RRT .2465 RRF .4200 RTF .9796
 SGB 3996.3 R23 .1813 R13 .9802
 SG1 3972.8 SG2 432.6 THA 1.61

ORBIT DETERMINATION ACCURACY

ST 2010.2 SR 420.2 SS 705.0
 CRT .8139 CRS -.8954 CST -.9875
 LSA 2156.0 MSA 257.5 SSA 2.6
 EL1 2039.5 EL2 240.6 ALF 9.79

LAUNCH DATE FEB 21 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

RL 147.96 LAL .00 LOL 152.19 VL 27.501 GAL -4.81 AZL 76.91 HCA 195.16 SMA 127.91 ECC .17735 INC13.0886 V1 30.112
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.443 GAP 5.55 AZP 102.65 TAL 203.43 TAP 38.59 RCA 105.23 APO 150.60 V2 34.829
 RC 132.989 GL 54.98 GP -63.61 ZAL 110.78 ZAP 114.31 ETS 297.74 ZAE 106.64 ETE 214.52 ZAC 108.80 ETC 189.17 CLP-157.86

PLANETOCENTRIC CONIC

C3 57.421 VHL 7.578 DLA 57.59 RAL 347.97 RAD 6569.0 VEL 13.371 PTH 2.44 VHP 9.133 DPA -54.07 RAP 48.80 ECC 1.9450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.51 13 48 55 4618.43 -22.74 224.73 242.56 35.53 15 5 53 4018.4 -29.16 219.83
 142.49 23 7 15 2978.92 -22.73 91.59 242.54 35.53 23 56 53 2378.9 -29.15 86.70
 37.51 13 48 55 4618.43 -22.74 224.73 242.56 35.53 15 5 53 4018.4 -29.16 219.83
 142.49 23 7 15 2978.92 -22.73 91.59 242.54 35.53 23 56 53 2378.9 -29.15 86.70
 37.51 13 48 55 4618.43 -22.74 224.73 242.56 35.53 15 5 53 4018.4 -29.16 219.83
 142.49 23 7 15 2978.92 -22.73 91.59 242.54 35.53 23 56 53 2378.9 -29.15 86.70

DIFFERENTIAL CORRECTIONS

TDE 2.2896 TRA -2.3831 TC3 -.9226 BAU .7205
 RDE .7781 RRA -.1671 RC3 -.1722 FAU .03097
 FDE 1.1448 FRA -.7218 FC3 -.4669 BSP 12844
 BDE 2.4182 BRA 2.3890 BC3 .9385 FSP -432

MID-COURSE EXECUTION ACCURACY

SGT 4031.7 SGR 685.4 SG3 130.7
 RRT .7874 RRF .9011 RTF .9696
 SGB 4089.5 R23 .2097 R13 .9726
 SG1 4068.1 SG2 418.7 THA 7.71

ORBIT DETERMINATION ACCURACY

ST 2004.0 SR 592.6 SS 724.5
 CRT .9180 CRS -.9759 CST -.9823
 LSA 2197.5 MSA 251.1 SSA 3.4
 EL1 2077.5 EL2 226.8 ALF 15.37

LAUNCH DATE FEB 21 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 415.115

RL 147.96 LAL .00 LOL 152.19 VL 27.454 GAL -4.55 AZL 79.13 HCA 198.26 SMA 127.59 ECC .17786 INC10.8682 V1 30.112
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.416 GAP 5.77 AZP 100.33 TAL 201.95 TAP 40.21 RCA 104.90 APO 150.28 V2 34.837
 RC 135.313 GL 51.37 GP -57.82 ZAL 112.80 ZAP 119.06 ETS 301.24 ZAE 111.05 ETE 215.72 ZAC 112.07 ETC 191.67 CLP-155.79

PLANETOCENTRIC CONIC

C3 43.630 VHL 6.605 OLA 54.79 RAL 352.09 RAD 6568.7 VEL 12.845 PTH 2.34 VHP 8.056 DPA -48.03 RAP 45.78 ECC 1.7180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.91 14 14 40 4530.88 -25.58 218.44 242.36 39.73 15 30 11 3930.9 -31.61 212.86
 139.09 23 14 18 2929.70 -25.57 89.83 242.34 39.73 24 3 8 2329.7 -31.60 84.25
 40.91 14 14 40 4530.88 -25.58 218.44 242.36 39.73 15 30 11 3930.9 -31.61 212.86
 139.09 23 14 18 2929.70 -25.57 89.83 242.34 39.73 24 3 8 2329.7 -31.60 84.25
 40.91 14 14 40 4530.88 -25.58 218.44 242.36 39.73 15 30 11 3930.9 -31.61 212.86
 139.09 23 14 18 2929.70 -25.57 89.83 242.34 39.73 24 3 8 2329.7 -31.60 84.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.0377 TRA-2.1700 TC3-1.3402 BAU .7976 SGT 4113.2 SGR 793.7 SG3 153.8 ST 2021.5 SR 638.9 SS 743.1
 RDE .7281 RRA -.2128 RC3 -.2714 FAU .03813 RRT .8566 RRF .9501 RTF .9620 CRT .9376 CRS -.9883 CST -.9796
 FDE 1.1742 FRA -.7068 FC3 -.7567 BSP 13327 SGB 4189.1 R23 .2288 R13 .9658 LSA 2233.2 MSA 244.5 SSA 4.2
 BDE 2.1639 BRA 2.1804 BC3 1.3674 FSP -519 SG1 4169.5 SG2 404.0 THA 9.48 EL1 2109.4 EL2 212.9 ALF 16.68

LAUNCH DATE FEB 21 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 421.005

RL 147.96 LAL .00 LOL 152.19 VL 27.406 GAL -4.28 AZL 80.72 HCA 201.39 SMA 127.27 ECC .17850 INC 9.2756 V1 30.112
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.389 GAP 6.00 AZP 98.65 TAL 200.45 TAP 41.83 RCA 104.55 APO 149.99 V2 34.846
 RC 137.625 GL 48.00 GP -52.57 ZAL 114.17 ZAP 123.50 ETS 303.28 ZAE 114.66 ETE 215.18 ZAC 114.97 ETC 192.50 CLP-155.25

PLANETOCENTRIC CONIC

C3 35.137 VHL 5.928 OLA 52.38 RAL 356.11 RAD 6568.4 VEL 12.510 PTH 2.27 VHP 7.369 DPA -42.53 RAP 43.88 ECC 1.5783
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.90 14 39 28 4457.09 -27.48 212.67 242.50 43.48 15 53 45 3857.1 -33.13 206.52
 136.10 23 21 37 2894.17 -27.46 88.29 242.48 43.47 24 9 51 2294.2 -33.11 82.14
 43.90 14 39 28 4457.09 -27.48 212.67 242.50 43.48 15 53 45 3857.1 -33.13 206.52
 136.10 23 21 37 2894.17 -27.46 88.29 242.48 43.47 24 9 51 2294.2 -33.11 82.14
 43.90 14 39 28 4457.09 -27.48 212.67 242.50 43.48 15 53 45 3857.1 -33.13 206.52
 136.10 23 21 37 2894.17 -27.46 88.29 242.48 43.47 24 9 51 2294.2 -33.11 82.14

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.9233 TRA-1.9473 TC3-1.7268 BAU .8252 SGT 4141.7 SGR 804.5 SG3 170.4 ST 2077.4 SR 654.0 SS 773.5
 RDE .6708 RRA -.1787 RC3 -.3231 FAU .04221 RRT .8589 RRF .9556 RTF .9514 CRT .9455 CRS -.9930 CST -.9772
 FDE 1.2180 FRA -.6268 FC3-1.0399 BSP 12563 SGB 4219.1 R23 .2547 R13 .9557 LSA 2298.2 MSA 244.4 SSA 5.1
 BDE 2.0369 BRA 1.9555 BC3 1.7567 FSP -519 SG1 4199.5 SG2 406.3 THA 9.56 EL1 2168.3 EL2 204.0 ALF 16.73

LAUNCH DATE FEB 21 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 426.887

RL 147.96 LAL .00 LOL 152.19 VL 27.359 GAL -4.01 AZL 81.93 HCA 204.52 SMA 126.95 ECC .17929 INC 8.0729 V1 30.112
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.362 GAP 6.23 AZP 97.35 TAL 198.94 TAP 43.46 RCA 104.19 APO 149.71 V2 34.855
 RC 139.923 GL 44.90 GP -47.88 ZAL 114.98 ZAP 127.58 ETS 304.69 ZAE 117.61 ETE 213.84 ZAC 117.63 ETC 192.57 CLP-155.43

PLANETOCENTRIC CONIC

C3 29.485 VHL 5.430 OLA 50.30 RAL .01 RAD 6568.2 VEL 12.282 PTH 2.21 VHP 6.923 DPA -37.54 RAP 42.76 ECC 1.4852
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.52 15 3 8 4394.24 -28.71 207.48 242.97 46.75 16 16 22 3794.2 -34.01 200.87
 133.48 23 29 1 2868.75 -28.69 87.02 242.96 46.74 24 16 50 2268.7 -33.99 80.41
 46.52 15 3 8 4394.24 -28.71 207.48 242.97 46.75 16 16 22 3794.2 -34.01 200.87
 133.48 23 29 1 2868.75 -28.69 87.02 242.96 46.74 24 16 50 2268.7 -33.99 80.41
 46.52 15 3 8 4394.24 -28.71 207.48 242.97 46.75 16 16 22 3794.2 -34.01 200.87
 133.48 23 29 1 2868.75 -28.69 87.02 242.96 46.74 24 16 50 2268.7 -33.99 80.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.7859 TRA-1.8148 TC3-2.1994 BAU .8802 SGT 4271.1 SGR 795.6 SG3 189.0 ST 2089.3 SR 627.4 SS 768.7
 RDE .5896 RRA -.1611 RC3 -.3854 FAU .04749 RRT .8739 RRF .9587 RTF .9481 CRT .9499 CRS -.9950 CST -.9762
 FDE 1.1861 FRA -.5819 FC3-1.3943 BSP 13539 SGB 4344.6 R23 .2539 R13 .9519 LSA 2301.0 MSA 234.6 SSA 6.2
 BDE 1.8807 BRA 1.8219 BC3 2.2329 FSP -620 SG1 4327.8 SG2 381.7 THA 9.32 EL1 2173.3 EL2 188.5 ALF 16.04

LAUNCH DATE FEB 21 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 432.768

RL 147.96 LAL .00 LOL 152.19 VL 27.311 GAL -3.73 AZL 82.87 HCA 207.67 SMA 126.64 ECC .18020 INC 7.1280 V1 30.112
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.336 GAP 6.46 AZP 96.32 TAL 197.41 TAP 45.08 RCA 103.82 APO 149.45 V2 34.865
 RC 142.207 GL 42.05 GP -43.73 ZAL 115.27 ZAP 131.30 ETS 305.79 ZAE 119.99 ETE 212.15 ZAC 120.12 ETC 192.29 CLP-155.98

PLANETOCENTRIC CONIC

C3 25.489 VHL 5.049 OLA 48.52 RAL 3.80 RAD 6568.0 VEL 12.119 PTH 2.17 VHP 6.632 DPA -33.02 RAP 42.21 ECC 1.4195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.80 15 25 45 4340.07 -29.50 202.85 243.80 49.56 16 38 5 3740.1 -34.49 195.89
 131.20 23 36 40 2850.46 -29.49 86.00 243.78 49.55 24 24 11 2250.5 -34.48 79.03
 48.80 15 25 45 4340.07 -29.50 202.85 243.80 49.56 16 38 5 3740.1 -34.49 195.89
 131.20 23 36 40 2850.46 -29.49 86.00 243.78 49.55 24 24 11 2250.5 -34.48 79.03
 48.80 15 25 45 4340.07 -29.50 202.85 243.80 49.56 16 38 5 3740.1 -34.49 195.89
 131.20 23 36 40 2850.46 -29.49 86.00 243.78 49.55 24 24 11 2250.5 -34.48 79.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.7024 TRA-1.6697 TC3-2.6517 BAU .9146 SGT 4368.7 SGR 765.5 SG3 201.9 ST 2115.6 SR 603.8 SS 766.6
 RDE .5286 RRA -.1304 RC3 -.4157 FAU .05053 RRT .8738 RRF .9538 RTF .9433 CRT .9532 CRS -.9964 CST -.9750
 FDE 1.1559 FRA -.5008 FC3-1.7162 BSP 13880 SGB 4435.2 R23 .2543 R13 .9466 LSA 2318.6 MSA 228.3 SSA 7.3
 BDE 1.7826 BRA 1.6748 BC3 2.6841 FSP -666 SG1 4419.9 SG2 368.0 THA 8.77 EL1 2193.0 EL2 176.1 ALF 15.32

LAUNCH DATE FEB 21 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 438.643

RL 147.96 LAL .00 LOL 152.19 VL 27.263 GAL -3.43 AZL 83.64 HCA 210.83 SMA 126.32 ECC .18123 INC 6.3623 V1 30.112
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.311 GAP 6.69 AZP 95.47 TAL 195.86 TAP 46.69 RCA 103.43 APO 149.21 V2 34.875
 RC 144.478 GL 39.44 GP -40.07 ZAL 115.09 ZAP 134.67 ETS 306.69 ZAE 121.92 ETE 210.34 ZAC 122.48 ETC 191.85 CLP-156.73

PLANETOCENTRIC CONIC

C3 22.533 VHL 4.747 CLA 46.99 RAL 7.54 RAD 6567.9 VEL 11.996 PTH 2.14 VHP 6.447 DPA -28.94 RAP 42.11 ECC 1.3708
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.79 15 47 32 4292.89 -30.01 198.75 244.96 51.97 16 59 5 3692.9 -34.72 191.50
 129.21 23 44 44 2837.27 -30.00 85.20 244.95 51.96 24 32 1 2237.3 -34.71 77.95
 50.79 15 47 32 4292.89 -30.01 198.75 244.96 51.97 16 59 5 3692.9 -34.72 191.50
 129.21 23 44 44 2837.27 -30.00 85.20 244.95 51.96 24 32 1 2237.3 -34.71 77.95
 50.79 15 47 32 4292.89 -30.01 198.75 244.96 51.97 16 59 5 3692.9 -34.72 191.50
 129.21 23 44 44 2837.27 -30.00 85.20 244.95 51.96 24 32 1 2237.3 -34.71 77.95

DIFFERENTIAL CORRECTIONS

TDE 1.6412 TRA-1.5281 TC3-3.1034 BAU .9438
 RDE .4794 RRA -.1017 RC3 -.4296 FAU .05233
 FDE 1.1150 FRA -.4079 FC3-2.0104 BSP 14160
 BDE 1.7097 BRA 1.5315 BC3 3.1330 FSP -697

MID-COURSE EXECUTION ACCURACY

SGT 4462.9 SGR 730.4 SG3 211.2
 RRT .8695 RRF .9449 RTF .9388
 SGB 4522.2 R23 .2497 R13 .9417
 SG1 4508.1 SG2 357.1 THA 8.15

ORBIT DETERMINATION ACCURACY

ST 2142.4 SR 581.2 SS 760.0
 CRT .9564 CRS -.9976 CST -.9739
 LSA 2335.8 MSA 222.1 SSA 8.6
 EL1 2213.8 EL2 164.2 ALF 14.63

LAUNCH DATE FEB 21 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 444.510

RL 147.96 LAL .00 LOL 152.19 VL 27.214 GAL -3.13 AZL 84.27 HCA 213.99 SMA 126.00 ECC .18240 INC 5.7257 V1 30.112
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.285 GAP 6.92 AZP 94.75 TAL 194.30 TAP 48.29 RCA 103.02 APO 148.99 V2 34.885
 RC 146.734 GL 37.02 GP -36.84 ZAL 114.50 ZAP 137.72 ETS 307.45 ZAE 123.47 ETE 208.53 ZAC 124.76 ETC 191.35 CLP-157.59

PLANETOCENTRIC CONIC

C3 20.271 VHL 4.502 CLA 45.69 RAL 11.27 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 6.337 DPA -25.25 RAP 42.36 ECC 1.3336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.52 16 8 41 4251.49 -30.33 195.12 246.46 54.03 17 19 32 3651.5 -34.79 187.66
 127.48 23 53 21 2827.72 -30.32 84.57 246.44 54.02 24 40 29 2227.7 -34.78 77.11
 52.52 16 8 41 4251.49 -30.33 195.12 246.46 54.03 17 19 32 3651.5 -34.79 187.66
 127.48 23 53 21 2827.72 -30.32 84.57 246.44 54.02 24 40 29 2227.7 -34.78 77.11
 52.52 16 8 41 4251.49 -30.33 195.12 246.46 54.03 17 19 32 3651.5 -34.79 187.66
 127.48 23 53 21 2827.72 -30.32 84.57 246.44 54.02 24 40 29 2227.7 -34.78 77.11

DIFFERENTIAL CORRECTIONS

TDE 1.5927 TRA-1.3896 TC3-3.5576 BAU .9713
 RDE .4394 RRA -.0771 RC3 -.4333 FAU .05323
 FDE 1.0648 FRA -.3110 FC3-2.2732 BSP 14475
 BDE 1.6522 BRA 1.3917 BC3 3.5839 FSP -719

MID-COURSE EXECUTION ACCURACY

SGT 4558.3 SGR 696.1 SG3 217.7
 RRT .8631 RRF .9328 RTF .9351
 SGB 4611.2 R23 .2396 R13 .9375
 SG1 4598.0 SG2 348.6 THA 7.55

ORBIT DETERMINATION ACCURACY

ST 2166.6 SR 560.9 SS 748.5
 CRT .9599 CRS -.9985 CST -.9729
 LSA 2349.9 MSA 215.6 SSA 9.9
 EL1 2232.8 EL2 152.5 ALF 14.02

LAUNCH DATE FEB 21 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 450.368

RL 147.96 LAL .00 LOL 152.19 VL 27.166 GAL -2.82 AZL 84.81 HCA 217.15 SMA 125.69 ECC .18370 INC 5.1853 V1 30.112
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.261 GAP 7.16 AZP 94.14 TAL 192.72 TAP 49.87 RCA 102.60 APO 148.78 V2 34.897
 RC 148.977 GL 34.76 GP -34.01 ZAL 113.54 ZAP 140.47 ETS 308.08 ZAE 124.71 ETE 206.79 ZAC 126.98 ETC 190.82 CLP-158.51

PLANETOCENTRIC CONIC

C3 18.495 VHL 4.301 CLA 44.56 RAL 15.03 RAD 6567.7 VEL 11.827 PTH 2.09 VHP 6.281 DPA -21.90 RAP 42.90 ECC 1.3044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.04 16 29 24 4214.97 -30.52 191.90 248.28 55.80 17 39 39 3615.0 -34.77 184.26
 125.96 0 6 35 2820.87 -30.51 84.09 248.27 55.79 0 53 35 2220.9 -34.76 76.46
 54.04 16 29 24 4214.97 -30.52 191.90 248.28 55.80 17 39 39 3615.0 -34.77 184.26
 125.96 0 6 35 2820.87 -30.51 84.09 248.27 55.79 0 53 35 2220.9 -34.76 76.46
 54.04 16 29 24 4214.97 -30.52 191.90 248.28 55.80 17 39 39 3615.0 -34.77 184.26
 125.96 0 6 35 2820.87 -30.51 84.09 248.27 55.79 0 53 35 2220.9 -34.76 76.46

DIFFERENTIAL CORRECTIONS

TDE 1.5547 TRA-1.2496 TC3-4.0068 BAU .9964
 RDE .4076 RRA -.0560 RC3 -.4288 FAU .05331
 FDE 1.0099 FRA -.2122 FC3-2.4954 BSP 14773
 BDE 1.6073 BRA 1.2509 BC3 4.0297 FSP -732

MID-COURSE EXECUTION ACCURACY

SGT 4650.5 SGR 664.7 SG3 221.5
 RRT .8542 RRF .9175 RTF .9318
 SGB 4697.7 R23 .2254 R13 .9339
 SG1 4685.2 SG2 343.1 THA 7.00

ORBIT DETERMINATION ACCURACY

ST 2189.1 SR 544.1 SS 733.8
 CRT .9639 CRS -.9992 CST -.9719
 LSA 2362.8 MSA 208.8 SSA 11.3
 EL1 2251.3 EL2 141.0 ALF 13.53

LAUNCH DATE FEB 21 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 456.217

RL 147.96 LAL .00 LOL 152.19 VL 27.118 GAL -2.50 AZL 85.28 HCA 220.32 SMA 125.38 ECC .18514 INC 4.7181 V1 30.112
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.237 GAP 7.40 AZP 93.60 TAL 191.13 TAP 51.45 RCA 102.17 APO 148.60 V2 34.908
 RC 151.204 GL 32.63 GP -31.51 ZAL 112.23 ZAP 142.97 ETS 308.59 ZAE 125.72 ETE 205.15 ZAC 129.18 ETC 190.31 CLP-159.46

PLANETOCENTRIC CONIC

C3 17.076 VHL 4.132 CLA 43.58 RAL 18.85 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 6.265 DPA -18.86 RAP 43.66 ECC 1.2810
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.38 16 49 54 4182.48 -30.61 189.03 250.41 57.33 17 59 36 3582.5 -34.68 181.26
 124.62 0 16 34 2816.22 -30.60 83.75 250.40 57.32 1 3 30 2216.2 -34.67 75.98
 55.38 16 49 54 4182.48 -30.61 189.03 250.41 57.33 17 59 36 3582.5 -34.68 181.26
 124.62 0 16 34 2816.22 -30.60 83.75 250.40 57.32 1 3 30 2216.2 -34.67 75.98
 55.38 16 49 54 4182.48 -30.61 189.03 250.41 57.33 17 59 36 3582.5 -34.68 181.26
 124.62 0 16 34 2816.22 -30.60 83.75 250.40 57.32 1 3 30 2216.2 -34.67 75.98

DIFFERENTIAL CORRECTIONS

TDE 1.5264 TRA-1.1046 TC3-4.4440 BAU 1.0190
 RDE .3830 RRA -.0376 RC3 -.4182 FAU .05271
 FDE .9543 FRA -.1125 FC3-2.6723 BSP 15021
 BDE 1.5737 BRA 1.1053 BC3 4.4636 FSP -735

MID-COURSE EXECUTION ACCURACY

SGT 4736.8 SGR 637.6 SG3 223.2
 RRT .8427 RRF .8992 RTF .9288
 SGB 4779.6 R23 .2089 R13 .9306
 SG1 4767.4 SG2 341.1 THA 6.50

ORBIT DETERMINATION ACCURACY

ST 2212.1 SR 531.5 SS 718.0
 CRT .9684 CRS -.9995 CST -.9708
 LSA 2377.1 MSA 201.9 SSA 12.8
 EL1 2271.4 EL2 129.2 ALF 13.14

LAUNCH DATE FEB 21 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 462.054

RL 147.96 LAL .00 LOL 152.19 VL 27.07D GAL -2.17 AZL 85.69 MCA 223.49 SMA 125.08 ECC .18674 INC 4.3079 V1 30.112
 RP 108.52 LAP -2.96 LOP 15.61 VP -37.213 GAP 7.64 AZP 93.13 TAL 189.52 TAP 53.01 RCA 101.72 APO 148.43 V2 34.920
 RC 153.416 GL 30.60 GP -29.31 ZAL 110.60 ZAP 145.24 ETS 308.98 ZAE 126.53 ETE 203.63 ZAC 131.35 ETC 189.81 CLP-160.42

PLANETOCENTRIC CONIC

C3 15.930 VHL 3.991 OLA 42.70 RAL 22.76 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 6.281 DPA -16.09 RAP 44.62 ECC 1.2622
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.59 17 10 24 4153.37 -30.64 186.46 252.85 58.66 18 19 38 3553.4 -34.54 178.58
 123.41 0 27 14 2813.55 -30.62 83.53 252.84 58.65 1 14 7 2213.5 -34.52 75.65
 56.59 17 10 24 4153.37 -30.64 186.46 252.85 58.66 18 19 38 3553.4 -34.54 178.58
 123.41 0 27 14 2813.55 -30.62 83.53 252.84 58.65 1 14 7 2213.5 -34.52 75.65
 56.59 17 10 24 4153.37 -30.64 186.46 252.85 58.66 18 19 38 3553.4 -34.54 178.58
 123.41 0 27 14 2813.55 -30.62 83.53 252.84 58.65 1 14 7 2213.5 -34.52 75.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4995 TRA -.9575 TC3-4.8754 BAU 1.0419 SGT 4824.8 SGR 615.2 SG3 223.6 ST 2227.6 SR 521.3 SS 698.1
 ROE .3629 RRA -.0221 RC3 -.4062 FAU .05177 RRT .8302 RRF .8788 RTF .9267 CRT .9731 CRS -.9993 CST -.9697
 FDE .8948 FRA -.0172 FC3-2.8133 BSP 15318 SGB 4863.8 R23 .1895 R13 .9281 LSA 2383.9 MSA 194.4 SSA 14.5
 BDE 1.5428 BRA .9578 BC3 4.8923 FSP -736 SG1 4851.8 SG2 341.0 THA 6.07 EL1 2284.8 EL2 117.1 ALF 12.86

LAUNCH DATE FEB 21 1969

FLIGHT TIME 160.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 467.881

RL 147.96 LAL .00 LOL 152.19 VL 27.023 GAL -1.82 AZL 86.06 MCA 226.67 SMA 124.77 ECC .18849 INC 3.9427 V1 30.112
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.189 GAP 7.88 AZP 92.71 TAL 187.90 TAP 54.57 RCA 101.25 APO 148.29 V2 34.932
 RC 155.612 GL 28.65 GP -27.37 ZAL 108.68 ZAP 147.31 ETS 309.25 ZAE 127.19 ETE 202.25 ZAC 133.52 ETC 189.35 CLP-161.39

PLANETOCENTRIC CONIC

C3 15.004 VHL 3.873 OLA 41.91 RAL 26.77 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 6.321 DPA -13.56 RAP 45.75 ECC 1.2469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.71 17 31 5 4127.13 -30.59 184.12 255.59 59.83 18 39 52 3527.1 -34.34 176.16
 122.29 0 38 33 2812.77 -30.58 83.43 255.58 59.82 1 25 26 2212.8 -34.33 75.47
 57.71 17 31 5 4127.13 -30.59 184.12 255.59 59.83 18 39 52 3527.1 -34.34 176.16
 122.29 0 38 33 2812.77 -30.58 83.43 255.58 59.82 1 25 26 2212.8 -34.33 75.47
 57.71 17 31 5 4127.13 -30.59 184.12 255.59 59.83 18 39 52 3527.1 -34.34 176.16
 122.29 0 38 33 2812.77 -30.58 83.43 255.58 59.82 1 25 26 2212.8 -34.33 75.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4750 TRA -.8046 TC3-5.2867 BAU 1.0633 SGT 4908.3 SGR 596.8 SG3 222.5 ST 2237.3 SR 513.5 SS 675.5
 ROE .3471 RRA -.0084 RC3 -.3921 FAU .05046 RRT .8163 RRF .8565 RTF .9250 CRT .9781 CRS -.9983 CST -.9684
 FDE .8344 FRA .0746 FC3-2.9114 BSP 15596 SGB 4944.4 R23 .1691 R13 .9262 LSA 2385.5 MSA 186.7 SSA 16.2
 BDE 1.5153 BRA .8047 BC3 5.3012 FSP -732 SG1 4932.5 SG2 343.1 THA 5.70 EL1 2293.1 EL2 104.4 ALF 12.68

LAUNCH DATE FEB 21 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 473.695

RL 147.96 LAL .00 LOL 152.19 VL 26.975 GAL -1.47 AZL 86.39 MCA 229.85 SMA 124.47 ECC .19041 INC 3.6137 V1 30.112
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.167 GAP 8.13 AZP 92.33 TAL 186.27 TAP 56.12 RCA 100.77 APO 148.17 V2 34.945
 RC 157.792 GL 26.75 GP -25.65 ZAL 106.49 ZAP 149.20 ETS 309.40 ZAE 127.73 ETE 200.98 ZAC 135.69 ETC 188.90 CLP-162.34

PLANETOCENTRIC CONIC

C3 14.259 VHL 3.776 OLA 41.16 RAL 30.90 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 6.382 DPA -11.23 RAP 47.01 ECC 1.2347
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.78 17 52 7 4103.18 -30.48 181.97 258.61 60.87 19 0 30 3503.2 -34.10 173.94
 121.22 0 50 25 2814.10 -30.46 83.47 258.60 60.86 1 37 20 2214.1 -34.09 75.44
 58.78 17 52 7 4103.18 -30.48 181.97 258.61 60.87 19 0 30 3503.2 -34.10 173.94
 121.22 0 50 25 2814.10 -30.46 83.47 258.60 60.86 1 37 20 2214.1 -34.09 75.44
 58.78 17 52 7 4103.18 -30.48 181.97 258.61 60.87 19 0 30 3503.2 -34.10 173.94
 121.22 0 50 25 2814.10 -30.46 83.47 258.60 60.86 1 37 20 2214.1 -34.09 75.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4496 TRA -.6463 TC3-5.6739 BAU 1.0840 SGT 4989.7 SGR 582.3 SG3 220.5 ST 2237.6 SR 507.8 SS 650.3
 ROE .3346 RRA -.0038 RC3 -.3776 FAU .04891 RRT .8013 RRF .8329 RTF .9241 CRT .9830 CRS -.9961 CST -.9668
 FDE .7733 FRA .1614 FC3-2.9693 BSP 15884 SGB 5023.5 R23 .1483 R13 .9251 LSA 2378.1 MSA 178.8 SSA 18.1
 BDE 1.4877 BRA .6463 BC3 5.6864 FSP -726 SG1 5011.6 SG2 346.8 THA 5.37 EL1 2292.7 EL2 91.1 ALF 12.59

LAUNCH DATE FEB 21 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 479.497

RL 147.96 LAL .00 LOL 152.19 VL 26.928 GAL -1.10 AZL 86.69 MCA 233.03 SMA 124.17 ECC .19251 INC 3.3139 V1 30.112
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.144 GAP 8.39 AZP 91.99 TAL 184.62 TAP 57.66 RCA 100.27 APO 148.08 V2 34.957
 RC 159.953 GL 24.89 GP -24.12 ZAL 104.04 ZAP 150.95 ETS 309.42 ZAE 128.18 ETE 199.84 ZAC 137.87 ETC 188.48 CLP-163.29

PLANETOCENTRIC CONIC

C3 13.674 VHL 3.698 OLA 40.44 RAL 35.14 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 6.460 DPA -9.08 RAP 48.40 ECC 1.2250
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.83 18 13 41 4080.98 -30.29 179.94 261.90 61.81 19 21 42 3481.0 -33.79 171.87
 120.17 1 2 41 2817.87 -30.27 83.67 261.89 61.79 1 49 39 2217.9 -33.78 75.60
 59.83 18 13 41 4080.98 -30.29 179.94 261.90 61.81 19 21 42 3481.0 -33.79 171.87
 120.17 1 2 41 2817.87 -30.27 83.67 261.89 61.79 1 49 39 2217.9 -33.78 75.60
 59.83 18 13 41 4080.98 -30.29 179.94 261.90 61.81 19 21 42 3481.0 -33.79 171.87
 120.17 1 2 41 2817.87 -30.27 83.67 261.89 61.79 1 49 39 2217.9 -33.78 75.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4247 TRA -.4776 TC3-6.0196 BAU 1.1024 SGT 5063.4 SGR 571.5 SG3 217.5 ST 2230.7 SR 504.3 SS 624.6
 ROE .3253 RRA .0159 RC3 -.3614 FAU .04708 RRT .7849 RRF .8087 RTF .9233 CRT .9877 CRS -.9923 CST -.9648
 FDE .7144 FRA .2469 FC3-2.9808 BSP 16085 SGB 5095.5 R23 .1299 R13 .9241 LSA 2364.5 MSA 171.6 SSA 20.1
 BDE 1.4614 BRA .4779 BC3 6.0304 FSP -712 SG1 5083.3 SG2 352.7 THA 5.09 EL1 2285.7 EL2 76.9 ALF 12.60

LAUNCH DATE FEB 21 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC
 RL 147.96 LAL .00 LOL 152.19 VL 26.880 GAL -.72 AZL 86.96 MCA 236.22 SMA 123.88 ECC .19480 INC 3.0380 V1 30.112
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.122 GAP 8.65 AZP 91.69 TAL 182.97 TAP 59.19 RCA 99.75 APO 148.01 V2 34.970
 RC 162.097 GL 23.06 GP -22.75 ZAL 101.37 ZAP 152.55 ETS 309.31 ZAE 128.55 ETE 198.81 ZAC 140.05 ETC 188.07 CLP-164.22

PLANETOCENTRIC CONIC
 C3 13.231 VHL 3.637 CLA 39.71 RAL 39.48 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 6.552 DPA -7.09 RAP 49.90 ECC 1.2177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.90 18 35 56 4060.01 -30.01 178.00 265.44 62.66 19 43 36 3460.0 -33.41 169.90
 119.10 1 15 7 2824.51 -30.00 84.06 265.44 62.65 2 2 12 2224.5 -33.40 75.97
 60.90 18 35 56 4060.01 -30.01 178.00 265.44 62.66 19 43 36 3460.0 -33.41 169.90
 119.10 1 15 7 2824.51 -30.00 84.06 265.44 62.65 2 2 12 2224.5 -33.40 75.97
 60.90 18 35 56 4060.01 -30.01 178.00 265.44 62.66 19 43 36 3460.0 -33.41 169.90
 119.10 1 15 7 2824.51 -30.00 84.06 265.44 62.65 2 2 12 2224.5 -33.40 75.97

DIFFERENTIAL CORRECTIONS
 TDE 1.3911 FRA -.3036 TC3-6.3295 BAU 1.1213
 ROE .3176 RRA .0274 RC3 -.3468 FAU .04523
 FDE .6518 FRA .3271 FC3-2.9598 BSP 16381
 BOE 1.4269 BRA .3048 BC3 6.3390 FSP -704

MID-COURSE EXECUTION ACCURACY
 SGT 5137.1 SGR 563.0 SG3 214.1
 RRT .7685 RRF .7845 RTF .9230
 SGB 5167.9 R23 .1120 R13 .9236
 SG1 5155.4 SG2 559.0 THA 4.84

ORBIT DETERMINATION ACCURACY
 ST 2203.4 SR 500.6 SS 593.4
 CRT .9919 CRS -.9862 CST -.9617
 LSA 2330.3 MSA 165.0 SSA 22.3
 EL1 2258.7 EL2 62.2 ALF 12.71

LAUNCH DATE FEB 21 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC
 RL 147.96 LAL .00 LOL 152.19 VL 26.834 GAL -.32 AZL 87.22 MCA 239.41 SMA 123.59 ECC .19730 INC 2.7817 V1 30.112
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.101 GAP 8.92 AZP 91.42 TAL 181.31 TAP 60.72 RCA 99.21 APO 147.97 V2 34.983
 RC 164.221 GL 21.24 GP -21.53 ZAL 98.50 ZAP 154.04 ETS 309.06 ZAE 128.87 ETE 197.87 ZAC 142.25 ETC 187.68 CLP-165.14

PLANETOCENTRIC CONIC
 C3 12.922 VHL 3.595 CLA 38.96 RAL 43.93 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.658 DPA -5.24 RAP 51.50 ECC 1.2127
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.04 18 59 0 4039.65 -29.64 176.07 269.22 63.46 20 6 20 3439.6 -32.94 167.96
 117.96 1 27 29 2834.67 -29.63 84.70 269.21 63.45 2 14 44 2234.7 -32.93 76.59
 62.04 18 59 0 4039.65 -29.64 176.07 269.22 63.46 20 6 20 3439.6 -32.94 167.96
 117.96 1 27 29 2834.67 -29.63 84.70 269.21 63.45 2 14 44 2234.7 -32.93 76.59
 62.04 18 59 0 4039.65 -29.64 176.07 269.22 63.46 20 6 20 3439.6 -32.94 167.96
 117.96 1 27 29 2834.67 -29.63 84.70 269.21 63.45 2 14 44 2234.7 -32.93 76.59

DIFFERENTIAL CORRECTIONS
 TDE 1.3525 TRA -.1233 TC3-6.5911 BAU 1.1401
 ROE .3120 RRA .0382 RC3 -.3338 FAU .04341
 FDE .5911 FRA .4006 FC3-2.9085 BSP 16622
 BOE 1.3880 BRA .1291 BC3 6.5995 FSP -691

MID-COURSE EXECUTION ACCURACY
 SGT 5212.0 SGR 557.7 SG3 210.5
 RRT .7532 RRF .7615 RTF .9240
 SGB 5241.8 R23 .0944 R13 .9246
 SG1 5229.0 SG2 365.7 THA 4.63

ORBIT DETERMINATION ACCURACY
 ST 2161.7 SR 498.0 SS 561.4
 CRT .9953 CRS -.9771 CST -.9582
 LSA 2282.6 MSA 159.1 SSA 24.5
 EL1 2217.9 EL2 47.0 ALF 12.92

LAUNCH DATE FEB 21 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC
 RL 147.96 LAL .00 LOL 152.19 VL 26.787 GAL .09 AZL 87.46 MCA 242.60 SMA 123.30 ECC .20001 INC 2.5416 V1 30.112
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.079 GAP 9.20 AZP 91.17 TAL 179.65 TAP 62.24 RCA 98.64 APO 147.97 V2 34.996
 RC 166.326 GL 19.44 GP -20.44 ZAL 95.45 ZAP 155.43 ETS 308.66 ZAE 129.14 ETE 197.03 ZAC 144.47 ETC 187.29 CLP-166.05

PLANETOCENTRIC CONIC
 C3 12.741 VHL 3.570 CLA 38.16 RAL 48.44 RAD 6567.5 VEL 11.581 PTH 2.03 VHP 6.776 DPA -3.53 RAP 53.19 ECC 1.2097
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.28 19 23 2 4019.24 -29.17 174.11 273.20 64.22 20 30 1 3419.2 -32.38 166.00
 116.72 1 39 26 2849.05 -29.15 85.62 273.19 64.20 2 26 56 2249.0 -32.36 77.51
 63.28 19 23 2 4019.24 -29.17 174.11 273.20 64.22 20 30 1 3419.2 -32.38 166.00
 116.72 1 39 26 2849.05 -29.15 85.62 273.19 64.20 2 26 56 2249.0 -32.36 77.51
 63.28 19 23 2 4019.24 -29.17 174.11 273.20 64.22 20 30 1 3419.2 -32.38 166.00
 116.72 1 39 26 2849.05 -29.15 85.62 273.19 64.20 2 26 56 2249.0 -32.36 77.51

DIFFERENTIAL CORRECTIONS
 TDE 1.3077 TRA .0737 TC3-6.7458 BAU 1.1503
 ROE .3088 RRA .0510 RC3 -.3084 FAU .04063
 FDE .5343 FRA .4794 FC3-2.7609 BSP 16657
 BOE 1.3437 BRA .0896 BC3 6.7529 FSP -652

MID-COURSE EXECUTION ACCURACY
 SGT 5255.6 SGR 552.2 SG3 204.1
 RRT .7292 RRF .7367 RTF .9216
 SGB 5284.6 R23 .0894 R13 .9221
 SG1 5271.1 SG2 376.7 THA 4.40

ORBIT DETERMINATION ACCURACY
 ST 2104.6 SR 496.6 SS 531.8
 CRT .9976 CRS -.9633 CST -.9530
 LSA 2221.1 MSA 157.0 SSA 26.7
 EL1 2162.1 EL2 33.4 ALF 13.25

LAUNCH DATE FEB 21 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC
 RL 147.96 LAL .00 LOL 152.19 VL 26.741 GAL .52 AZL 87.69 MCA 245.79 SMA 123.02 ECC .20295 INC 2.3149 V1 30.112
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.059 GAP 9.48 AZP 90.95 TAL 177.98 TAP 63.77 RCA 98.05 APO 147.99 V2 35.010
 RC 168.410 GL 17.65 GP -19.45 ZAL 92.25 ZAP 156.72 ETS 308.13 ZAE 129.37 ETE 196.28 ZAC 146.70 ETC 186.89 CLP-166.95

PLANETOCENTRIC CONIC
 C3 12.689 VHL 3.562 CLA 37.30 RAL 52.99 RAD 6567.5 VEL 11.579 PTH 2.02 VHP 6.906 DPA -1.93 RAP 54.96 ECC 1.2088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.64 19 48 5 3998.31 -28.58 172.08 277.35 64.94 20 54 43 3398.3 -31.70 163.97
 115.36 1 50 43 2868.22 -28.57 86.87 277.35 64.93 2 38 31 2268.2 -31.69 78.77
 64.64 19 48 5 3998.31 -28.58 172.08 277.35 64.94 20 54 43 3398.3 -31.70 163.97
 115.36 1 50 43 2868.22 -28.57 86.87 277.35 64.93 2 38 31 2268.2 -31.69 78.77
 64.64 19 48 5 3998.31 -28.58 172.08 277.35 64.94 20 54 43 3398.3 -31.70 163.97
 115.36 1 50 43 2868.22 -28.57 86.87 277.35 64.93 2 38 31 2268.2 -31.69 78.77

DIFFERENTIAL CORRECTIONS
 TDE 1.2480 TRA .2703 TC3-6.8969 BAU 1.1712
 ROE .3048 RRA .0616 RC3 -.3026 FAU .03926
 FDE .4680 FRA .5423 FC3-2.6786 BSP 17064
 BOE 1.2847 BRA .2773 BC3 6.9035 FSP -660

MID-COURSE EXECUTION ACCURACY
 SGT 5335.9 SGR 549.9 SG3 201.0
 RRT .7197 RRF .7170 RTF .9255
 SGB 5364.2 R23 .0685 R13 .9259
 SG1 5350.6 SG2 380.7 THA 4.26

ORBIT DETERMINATION ACCURACY
 ST 2019.4 SR 491.8 SS 491.4
 CRT .9982 CRS -.9427 CST -.9462
 LSA 2129.8 MSA 155.4 SSA 28.6
 EL1 2078.2 EL2 28.7 ALF 13.67

LAUNCH DATE FEB 21 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 508.269

RL 147.96 LAL .00 LOL 152.19 VL 26.695 GAL .96 AZL 87.90 MCA 248.99 SMA 122.74 ECC .20614 INC 2.0990 V1 30.112
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.038 GAP 9.78 AZP 90.75 TAL 176.30 TAP 65.29 RCA 97.44 APO 148.04 V2 35.023
 RC 170.474 GL 15.88 GP -18.57 ZAL 88.93 ZAP 157.92 ETS 307.43 ZAE 129.58 ETE 195.59 ZAC 148.94 ETC 186.49 CLP-167.83

PLANETOCENTRIC CONIC

C3 12.768 VHL 3.573 CLA 36.36 RAL 57.55 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 7.047 DPA -.44 RAP 56.79 ECC 1.2101
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.17 20 14 19 3975.85 -27.87 169.89 281.65 65.64 21 20 35 3375.8 -30.91 161.81
 113.83 2 0 50 2893.33 -27.86 88.53 281.65 65.62 2 49 3 2293.3 -30.90 80.46
 66.17 20 14 19 3975.85 -27.87 169.89 281.65 65.64 21 20 35 3375.8 -30.91 161.81
 113.83 2 0 50 2893.33 -27.86 88.53 281.65 65.62 2 49 3 2293.3 -30.90 80.46
 66.17 20 14 19 3975.85 -27.87 169.89 281.65 65.64 21 20 35 3375.8 -30.91 161.81
 113.83 2 0 50 2893.33 -27.86 88.53 281.65 65.62 2 49 3 2293.3 -30.90 80.46

DIFFERENTIAL CORRECTIONS

TOE 1.1793 TRA .4810 TC3-6.9395 BAU 1.1856
 ROE .3027 RRA .0741 RC3 -.2869 FAU .03717
 FDE .4059 FRA .6089 FC3-2.5202 BSP 17253
 BDE 1.2176 BRA .4867 BC3 6.9455 FSP -643

MID-COURSE EXECUTION ACCURACY

SGT 5393.3 SGR 547.2 SG3 195.8
 RRT .7035 RRF .6967 RTF .9263
 SGB 5421.0 R23 .0586 R13 .9266
 SG1 5407.1 SG2 387.9 THA 4.10

ORBIT DETERMINATION ACCURACY

ST 1918.5 SR 487.5 SS 455.2
 CRT .9961 CRS -.9121 CST -.9367
 LSA 2024.6 MSA 160.0 SSA 29.9
 EL1 1979.1 EL2 41.7 ALF 14.21

LAUNCH DATE FEB 21 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 513.965

RL 147.96 LAL .00 LOL 152.19 VL 26.650 GAL 1.42 AZL 88.11 MCA 252.19 SMA 122.47 ECC .20960 INC 1.8921 V1 30.112
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.018 GAP 10.09 AZP 90.58 TAL 174.62 TAP 66.82 RCA 96.80 APO 148.14 V2 35.036
 RC 172.518 GL 14.13 GP -17.76 ZAL 85.53 ZAP 159.04 ETS 306.57 ZAE 129.76 ETE 194.98 ZAC 151.20 ETC 186.06 CLP-168.70

PLANETOCENTRIC CONIC

C3 12.982 VHL 3.603 CLA 35.35 RAL 62.07 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 7.200 DPA .96 RAP 58.70 ECC 1.2137
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.89 20 41 53 3951.06 -27.04 167.50 286.07 66.31 21 47 44 3351.1 -30.00 159.45
 112.11 2 9 22 2925.28 -27.03 90.67 286.06 66.30 2 58 8 2325.3 -29.99 82.62
 67.89 20 41 53 3951.06 -27.04 167.50 286.07 66.31 21 47 44 3351.1 -30.00 159.45
 112.11 2 9 22 2925.28 -27.03 90.67 286.06 66.30 2 58 8 2325.3 -29.99 82.62
 67.89 20 41 53 3951.06 -27.04 167.50 286.07 66.31 21 47 44 3351.1 -30.00 159.45
 112.11 2 9 22 2925.28 -27.03 90.67 286.06 66.30 2 58 8 2325.3 -29.99 82.62

DIFFERENTIAL CORRECTIONS

TOE 1.0979 TRA .7001 TC3-6.9080 BAU 1.1999
 ROE .3014 RRA .0867 RC3 -.2728 FAU .03523
 FDE .3434 FRA .6705 FC3-2.3494 BSP 17476
 BDE 1.1385 BRA .7055 BC3 6.9134 FSP -629

MID-COURSE EXECUTION ACCURACY

SGT 5449.1 SGR 544.9 SG3 190.7
 RRT .6891 RRF .6779 RTF .9282
 SGB 5476.2 R23 .0483 R13 .9285
 SG1 5462.0 SG2 394.0 THA 3.96

ORBIT DETERMINATION ACCURACY

ST 1799.5 SR 482.0 SS 419.4
 CRT .9897 CRS -.8675 CST -.9244
 LSA 1901.7 MSA 170.4 SSA 30.2
 EL1 1861.7 EL2 66.6 ALF 14.87

LAUNCH DATE FEB 21 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 519.638

RL 147.96 LAL .00 LOL 152.19 VL 26.605 GAL 1.90 AZL 88.31 MCA 255.39 SMA 122.20 ECC .21335 INC 1.6923 V1 30.112
 RP 108.12 LAP -1.64 LOP 47.58 VP 36.998 GAP 10.42 AZP 90.43 TAL 172.95 TAP 68.34 RCA 96.13 APO 148.27 V2 35.050
 RC 174.540 GL 12.42 GP -17.04 ZAL 82.08 ZAP 160.10 ETS 305.54 ZAE 129.92 ETE 194.42 ZAC 153.46 ETC 185.59 CLP-169.56

PLANETOCENTRIC CONIC

C3 13.341 VHL 3.652 CLA 34.27 RAL 66.53 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 7.365 DPA 2.26 RAP 60.66 ECC 1.2196
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.84 21 10 59 3922.68 -26.11 164.81 290.56 66.97 22 16 22 3322.7 -28.99 156.81
 110.16 2 15 49 2965.43 -26.09 93.38 290.55 66.96 3 5 14 2365.4 -28.98 85.38
 69.84 21 10 59 3922.68 -26.11 164.81 290.56 66.97 22 16 22 3322.7 -28.99 156.81
 110.16 2 15 49 2965.43 -26.09 93.38 290.55 66.96 3 5 14 2365.4 -28.98 85.38
 69.84 21 10 59 3922.68 -26.11 164.81 290.56 66.97 22 16 22 3322.7 -28.99 156.81
 110.16 2 15 49 2965.43 -26.09 93.38 290.55 66.96 3 5 14 2365.4 -28.98 85.38

DIFFERENTIAL CORRECTIONS

TOE 1.0053 TRA .9316 TC3-6.7944 BAU 1.2127
 ROE .3009 RRA .1002 RC3 -.2574 FAU .03326
 FDE .2818 FRA .7310 FC3-2.1583 BSP 17670
 BDE 1.0494 BRA .9370 BC3 6.7993 FSP -614

MID-COURSE EXECUTION ACCURACY

SGT 5499.8 SGR 542.6 SG3 185.4
 RRT .6749 RRF .6605 RTF .9299
 SGB 5526.5 R23 .0401 R13 .9301
 SG1 5512.1 SG2 399.5 THA 3.83

ORBIT DETERMINATION ACCURACY

ST 1670.5 SR 475.5 SS 387.6
 CRT .9763 CRS -.8035 CST -.9092
 LSA 1769.3 MSA 188.7 SSA 29.6
 EL1 1734.0 EL2 99.1 ALF 15.58

LAUNCH DATE FEB 21 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 525.283

RL 147.96 LAL .00 LOL 152.19 VL 26.560 GAL 2.41 AZL 88.50 MCA 258.60 SMA 121.93 ECC .21742 INC 1.4982 V1 30.112
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.979 GAP 10.75 AZP 90.30 TAL 171.27 TAP 69.87 RCA 95.42 APO 148.44 V2 35.063
 RC 176.542 GL 10.74 GP -16.38 ZAL 78.62 ZAP 161.09 ETS 304.33 ZAE 130.07 ETE 193.91 ZAC 155.74 ETC 185.08 CLP-170.41

PLANETOCENTRIC CONIC

C3 13.854 VHL 3.722 CLA 33.12 RAL 70.88 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 7.541 DPA 3.47 RAP 62.68 ECC 1.2280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.07 21 42 0 3889.02 -25.06 161.71 295.09 67.61 22 46 49 3289.0 -27.87 153.76
 107.93 2 19 29 3015.56 -25.05 96.78 295.09 67.60 3 9 45 2415.6 -27.86 88.83
 72.07 21 42 0 3889.02 -25.06 161.71 295.09 67.61 22 46 49 3289.0 -27.87 153.76
 107.93 2 19 29 3015.56 -25.05 96.78 295.09 67.60 3 9 45 2415.6 -27.86 88.83
 110.00 3 36 50 2778.07 -30.42 80.52 297.22 73.60 4 23 8 2178.1 -32.36 71.85
 110.00 1 27 46 3174.50 -19.92 106.45 292.45 61.63 2 20 41 2574.5 -23.55 99.19

DIFFERENTIAL CORRECTIONS

TOE .9040 TRA 1.1764 TC3-6.5969 BAU 1.2226
 ROE .3016 RRA .1146 RC3 -.2405 FAU .03123
 FDE .2233 FRA .7904 FC3-1.9517 BSP 17793
 BDE .9530 BRA 1.1820 BC3 6.6013 FSP -595

MID-COURSE EXECUTION ACCURACY

SGT 5543.3 SGR 540.3 SG3 180.0
 RRT .6613 RRF .6448 RTF .9313
 SGB 5569.5 R23 .0341 R13 .9315
 SG1 5554.8 SG2 404.5 THA 3.71

ORBIT DETERMINATION ACCURACY

ST 1542.4 SR 468.5 SS 362.8
 CRT .9518 CRS -.7183 CST -.8937
 LSA 1638.1 MSA 215.0 SSA 28.2
 EL1 1606.1 EL2 138.1 ALF 16.25

LAUNCH DATE FEB 21 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 530.899

RL 147.96 LAL .00 LOL 152.19 VL 26.516 GAL 2.93 AZL 88.69 MCA 261.81 SMA 121.67 ECC .22183 INC 1.3082 VI 30.112
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.959 GAP 11.11 AZP 90.19 TAL 169.60 TAP 71.41 RCA 94.68 APO 148.66 V2 35.076
 RC 178.523 GL 9.12 GP -15.78 ZAL 75.17 ZAP 162.01 ETS 302.92 ZAE 130.20 ETE 193.45 ZAC 158.03 ETC 184.48 CLP-171.26

PLANETOCENTRIC CONIC

C3 14.536 VHL 3.813 DLA 31.91 RAL 75.09 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 7.731 DPA 4.60 RAP 64.74 ECC 1.2392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.64 22 15 41 3847.19 -23.93 158.01 299.65 68.23 23 19 48 3247.2 -26.67 150.11
 105.36 2 19 25 3078.58 -23.92 101.10 299.65 68.22 3 10 43 2478.6 -26.66 93.20
 74.64 22 15 41 3847.19 -23.93 158.01 299.65 68.23 23 19 48 3247.2 -26.67 150.11
 105.36 2 19 25 3078.58 -23.92 101.10 299.65 68.22 3 10 43 2478.6 -26.66 93.20
 110.00 4 23 1 2695.74 -31.85 74.53 302.47 76.87 5 7 56 2095.7 -33.33 65.62
 110.00 1 15 11 3278.03 -16.46 112.48 295.76 59.61 2 9 49 2678.0 -20.37 105.54

DIFFERENTIAL CORRECTIONS

TDE .7887 TRA 1.4298 TC3-6.3420 BAU 1.2332
 RDE .3026 RRA .1293 RC3 -.2243 FAU .02935
 FDE .1643 FRA .8459 FC3-1.7482 BSP 17979
 BDE .8448 BRA 1.4357 BC3 6.3459 FSP -581

MID-COURSE EXECUTION ACCURACY

SGT 5585.4 SGR 537.1 SG3 174.5
 RRT .6486 RRF .6296 RTF .9332
 SGB 5611.2 R23 .0277 R13 .9334
 SG1 5596.4 SG2 408.0 THA 3.59

ORBIT DETERMINATION ACCURACY

ST 1415.1 SR 459.9 SS 343.5
 CRT .9094 CRS -.6061 CST -.8790
 LSA 1506.4 MSA 249.4 SSA 26.4
 EL1 1476.6 EL2 183.3 ALF 16.73

LAUNCH DATE FEB 21 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 536.480

RL 147.96 LAL .00 LOL 152.19 VL 26.472 GAL 3.48 AZL 88.88 MCA 265.02 SMA 121.41 ECC .22661 INC 1.1211 VI 30.112
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.940 GAP 11.48 AZP 90.10 TAL 167.94 TAP 72.95 RCA 93.90 APO 148.92 V2 35.089
 RC 180.483 GL 7.57 GP -15.24 ZAL 71.78 ZAP 162.88 ETS 301.29 ZAE 130.32 ETE 193.03 ZAC 160.33 ETC 183.78 CLP-172.10

PLANETOCENTRIC CONIC

C3 15.403 VHL 3.925 DLA 30.66 RAL 79.13 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 7.934 DPA 5.66 RAP 66.86 ECC 1.2535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.73 22 53 31 3791.85 -22.72 153.31 304.21 68.84 23 56 43 3191.9 -25.39 145.47
 102.27 2 13 51 3159.84 -22.71 106.72 304.21 68.83 3 6 31 2559.8 -25.38 98.87
 77.73 22 53 31 3791.85 -22.72 153.31 304.21 68.84 23 56 43 3191.9 -25.39 145.47
 102.27 2 13 51 3159.84 -22.71 106.72 304.21 68.83 3 6 31 2559.8 -25.38 98.87
 110.00 5 1 47 2635.17 -32.70 70.01 307.41 79.42 5 45 42 2035.2 -33.81 60.96
 110.00 1 8 42 3364.52 -13.42 117.34 299.36 58.26 2 4 46 2764.5 -17.52 110.63

DIFFERENTIAL CORRECTIONS

TOE .6640 TRA 1.6968 TC3-6.0271 BAU 1.2419
 RDE .3045 RRA .1448 RC3 -.2074 FAU .02748
 FDE .1080 FRA .9011 FC3-1.5447 BSP 18139
 BDE .7305 BRA 1.7030 BC3 6.0307 FSP -566

MID-COURSE EXECUTION ACCURACY

SGT 5622.6 SGR 533.4 SG3 169.2
 RRT .6364 RRF .6159 RTF .9350
 SGB 5647.8 R23 .0229 R13 .9351
 SG1 5632.9 SG2 410.7 THA 3.47

ORBIT DETERMINATION ACCURACY

ST 1306.2 SR 450.7 SS 333.5
 CRT .8415 CRS -.4748 CST -.8724
 LSA 1391.3 MSA 290.0 SSA 24.5
 EL1 1361.9 EL2 233.6 ALF 16.69

LAUNCH DATE FEB 21 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 542.023

RL 147.96 LAL .00 LOL 152.19 VL 26.428 GAL 4.06 AZL 89.06 MCA 268.23 SMA 121.16 ECC .23180 INC .9357 VI 30.112
 RP 107.96 LAP -.94 LOP 60.42 VP 36.921 GAP 11.88 AZP 90.03 TAL 166.28 TAP 74.51 RCA 93.07 APO 149.24 V2 35.102
 RC 182.422 GL 6.09 GP -14.74 ZAL 68.46 ZAP 163.68 ETS 299.45 ZAE 130.43 ETE 192.65 ZAC 162.63 ETC 182.91 CLP-172.93

PLANETOCENTRIC CONIC

C3 16.477 VHL 4.059 DLA 29.38 RAL 82.99 RAD 6567.7 VEL 11.741 PTH 2.07 VHP 8.153 DPA 6.64 RAP 69.01 ECC 1.2712
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.81 23 39 54 3708.33 -21.45 146.58 308.76 69.43 24 41 42 3108.3 -24.06 138.79
 98.19 1 58 17 3273.96 -21.44 114.69 308.75 69.41 2 52 51 2674.0 -24.05 106.90
 100.00 2 58 45 3080.30 -25.08 101.68 310.10 73.18 3 50 5 2480.3 -27.15 93.49
 100.00 1 26 3 3377.23 -17.90 120.78 307.20 65.65 2 22 20 2777.2 -21.03 113.39
 110.00 5 36 16 2586.83 -33.24 66.35 312.19 81.53 6 19 23 1986.8 -34.05 57.20
 110.00 1 5 1 3443.46 -10.55 121.66 303.08 57.30 2 2 25 2843.5 -14.79 115.12

DIFFERENTIAL CORRECTIONS

TDE .5301 TRA 1.9767 TC3-5.6677 BAU 1.2492
 RDE .3072 RRA .1607 RC3 -.1903 FAU .02567
 FDE .0536 FRA .9546 FC3-1.3490 BSP 18300
 BDE .6126 BRA 1.9832 BC3 5.6709 FSP -551

MID-COURSE EXECUTION ACCURACY

SGT 5655.5 SGR 528.8 SG3 163.8
 RRT .6249 RRF .6029 RTF .9368
 SGB 5680.1 R23 .0184 R13 .9369
 SG1 5665.2 SG2 412.1 THA 3.36

ORBIT DETERMINATION ACCURACY

ST 1225.4 SR 440.6 SS 331.9
 CRT .7410 CRS -.3332 CST -.8776
 LSA 1301.8 MSA 332.6 SSA 22.6
 EL1 1270.5 EL2 285.3 ALF 15.73

LAUNCH DATE FEB 21 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 547.522

RL 147.96 LAL .00 LOL 152.19 VL 26.386 GAL 4.67 AZL 89.25 MCA 271.44 SMA 120.91 ECC .23743 INC .7508 VI 30.112
 RP 107.92 LAP -.75 LOP 63.64 VP 36.902 GAP 12.30 AZP 89.98 TAL 164.63 TAP 76.07 RCA 92.20 APO 149.61 V2 35.114
 RC 184.340 GL 4.69 GP -14.29 ZAL 65.24 ZAP 164.44 ETS 297.36 ZAE 130.53 ETE 192.30 ZAC 164.93 ETC 181.80 CLP-173.76

PLANETOCENTRIC CONIC

C3 17.783 VHL 4.217 DLA 28.10 RAL 86.66 RAD 6567.7 VEL 11.797 PTH 2.09 VHP 8.387 DPA 7.54 RAP 71.20 ECC 1.2927
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 36 40 3408.12 -22.51 124.93 314.14 72.36 2 33 28 2808.1 -24.72 116.95
 90.00 0 34 40 3609.36 -17.80 137.80 312.31 67.61 1 34 50 3009.4 -20.68 130.31
 100.00 3 53 49 2965.93 -27.10 93.78 315.53 76.87 4 43 15 2365.9 -28.64 85.32
 100.00 1 0 12 3526.79 -13.48 129.69 310.25 63.07 1 58 59 2926.8 -16.99 122.65
 110.00 6 7 33 2547.36 -33.60 63.32 316.84 83.29 6 50 1 1947.4 -34.16 54.12
 110.00 1 2 57 3518.13 -7.78 125.66 306.88 56.61 2 1 35 2918.1 -12.11 119.25

DIFFERENTIAL CORRECTIONS

TOE .3916 TRA 2.2747 TC3-5.2665 BAU 1.2527
 RDE .3109 RRA .1776 RC3 -.1723 FAU .02383
 FDE .0033 FRA 1.0093 FC3-1.1602 BSP 18356
 BDE .5000 BRA 2.2816 BC3 5.2693 FSP -533

MID-COURSE EXECUTION ACCURACY

SGT 5682.1 SGR 523.8 SG3 158.7
 RRT .6143 RRF .5916 RTF .9385
 SGB 5706.2 R23 .0153 R13 .9385
 SG1 5691.3 SG2 412.6 THA 3.26

ORBIT DETERMINATION ACCURACY

ST 1185.5 SR 430.3 SS 338.6
 CRT .6107 CRS -.2003 CST -.8961
 LSA 1252.2 MSA 369.9 SSA 20.9
 EL1 1216.7 EL2 332.0 ALF 13.53

LAUNCH DATE FEB 21 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 552.970

RL 147.96 LAL .00 LOL 152.19 VL 26.343 GAL 5.34 AZL 89.43 MCA 274.66 SMA 120.66 ECC .24356 INC .5651 V1 30.112
 RP 107.88 LAP -.56 LOP 66.85 VP 36.884 GAP 12.74 AZP 89.95 TAL 162.99 TAP 77.65 RCA 91.27 APO 150.05 V2 35.126
 RC 186.236 GL 3.37 GP -13.87 ZAL 62.14 ZAP 165.13 ETS 295.02 ZAE 130.61 ETE 191.98 ZAC 167.23 ETC 180.32 CLP-174.60

PLANETOCENTRIC CONIC

C3 19.350 VHL 4.399 DLA 26.82 RAL 90.11 RAD 6567.8 VEL 11.863 PTH 2.10 VHP 8.639 DPA 8.38 RAP 73.43 ECC 1.3185
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 16 3264.16 -25.15 115.21 319.76 76.54 3 34 40 2664.2 -26.75 106.91
 90.00 23 54 43 3792.97 -12.71 148.87 315.12 64.48 24 57 56 3193.0 -16.04 141.78
 100.00 4 34 14 2896.77 -28.07 88.87 320.46 79.28 5 22 31 2296.8 -29.26 80.27
 100.00 0 47 22 3635.59 -10.04 135.93 313.74 61.70 1 47 58 3035.6 -13.75 129.10
 110.00 6 36 12 2515.14 -33.83 60.83 321.40 84.74 7 18 7 1915.1 -34.18 51.61
 110.00 1 1 54 3589.99 -5.07 129.46 310.71 56.15 2 1 44 2990.0 -9.48 123.15

DIFFERENTIAL CORRECTIONS

TOE .2418 TRA 2.5841 TC3-4.8534 BAU 1.2562
 RDE .3151 RRA .1945 RC3 -.1551 FAU .02212
 FDE -.0461 FRA 1.0620 FC3 -.9895 BSP 18492
 BDE .3972 BRA 2.5914 BC3 4.8559 FSP -519

MID-COURSE EXECUTION ACCURACY

SGT 5705.7 SGR 517.4 SG3 153.7
 RRT .6039 RRF .5805 RTF .9404
 SGB 5729.1 R23 .0121 R13 .9404
 SG1 5714.3 SG2 411.8 THA 3.15

ORBIT DETERMINATION ACCURACY

ST 1181.4 SR 419.2 SS 350.5
 CRT .4567 CRS -.0766 CST -.9203
 LSA 1239.8 MSA 396.2 SSA 19.5
 EL1 1198.5 EL2 367.7 ALF 10.17

LAUNCH DATE FEB 21 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 558.360

RL 147.96 LAL .00 LOL 152.19 VL 26.301 GAL 5.98 AZL 89.62 MCA 277.88 SMA 120.42 ECC .25023 INC .3777 V1 30.112
 RP 107.85 LAP -.37 LOP 70.07 VP 36.865 GAP 13.22 AZP 89.95 TAL 161.38 TAP 79.25 RCA 90.29 APO 150.55 V2 35.138
 RC 188.109 GL 2.15 GP -13.49 ZAL 59.18 ZAP 165.76 ETS 292.40 ZAE 130.68 ETE 191.68 ZAC 169.53 ETC 178.22 CLP-175.43

PLANETOCENTRIC CONIC

C3 21.216 VHL 4.606 DLA 25.55 RAL 93.36 RAD 6567.9 VEL 11.941 PTH 2.13 VHP 8.911 DPA 9.15 RAP 75.68 ECC 1.3492
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 55 3189.53 -26.23 110.01 324.69 78.93 4 15 5 2589.5 -27.49 101.57
 90.00 23 38 59 3911.53 -9.14 155.75 318.54 63.08 24 44 10 3311.5 -12.68 148.86
 100.00 5 8 15 2846.71 -28.65 85.26 325.17 81.10 5 55 42 2247.7 -29.59 76.58
 100.00 0 39 15 3729.58 -6.96 141.21 317.38 60.86 1 41 25 3129.6 -10.80 134.52
 110.00 7 2 30 2489.26 -33.97 58.83 325.88 85.92 7 44 0 1889.3 -34.16 49.59
 110.00 1 1 30 3659.79 -2.41 133.12 314.56 55.89 2 2 30 3059.8 -6.87 126.87

DIFFERENTIAL CORRECTIONS

TOE .0852 TRA 2.9100 TC3-4.4309 BAU 1.2574
 RDE .3202 RRA .2118 RC3 -.1383 FAU .02046
 FDE -.0930 FRA 1.1148 FC3 -.8347 BSP 18615
 BDE .3313 BRA 2.9177 BC3 4.4330 FSP -505

MID-COURSE EXECUTION ACCURACY

SGT 5724.6 SGR 510.0 SG3 148.8
 RRT .5939 RRF .5699 RTF .9425
 SGB 5747.3 R23 .0092 R13 .9425
 SG1 5732.7 SG2 409.8 THA 3.04

ORBIT DETERMINATION ACCURACY

ST 1214.5 SR 407.8 SS 366.5
 CRT .2991 CRS .0289 CST -.9438
 LSA 1268.7 MSA 407.1 SSA 18.1
 EL1 1221.3 EL2 387.0 ALF 6.38

LAUNCH DATE FEB 21 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 563.684

RL 147.96 LAL .00 LOL 152.19 VL 26.260 GAL 6.69 AZL 89.81 MCA 281.10 SMA 120.18 ECC .25749 INC .1870 V1 30.112
 RP 107.81 LAP -.18 LOP 73.29 VP 36.847 GAP 13.73 AZP 89.96 TAL 159.78 TAP 80.88 RCA 89.24 APO 151.13 V2 35.150
 RC 189.959 GL 1.01 GP -13.15 ZAL 56.37 ZAP 166.34 ETS 289.50 ZAE 130.73 ETE 191.40 ZAC 171.79 ETC 174.96 CLP-176.26

PLANETOCENTRIC CONIC

C3 23.424 VHL 4.840 DLA 24.32 RAL 96.40 RAD 6568.0 VEL 12.033 PTH 2.15 VHP 9.205 DPA 9.85 RAP 77.96 ECC 1.3855
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 56 5 3137.79 -26.85 106.35 329.38 80.66 4 48 23 2537.8 -27.87 97.83
 90.00 23 29 5 4011.26 -6.02 161.42 322.15 62.28 24 35 56 3411.3 -9.68 154.65
 100.00 5 38 5 2808.90 -29.02 82.51 329.74 82.50 6 24 54 2208.9 -29.75 73.79
 100.00 0 33 41 3815.38 -4.10 145.97 321.09 60.36 1 37 17 3215.4 -8.01 139.37
 110.00 7 26 42 2469.10 -34.06 57.26 330.29 86.85 8 7 51 1869.1 -34.12 48.01
 110.00 1 1 34 3727.95 .20 136.67 318.42 55.82 2 3 42 3128.0 -4.29 130.46

DIFFERENTIAL CORRECTIONS

TOE -.0776 TRA 3.2540 TC3-4.0085 BAU 1.2559
 RDE .3261 RRA .2292 RC3 -.1218 FAU .01883
 FDE -.1373 FRA 1.1683 FC3 -.6958 BSP 18715
 BDE .3352 BRA 3.2621 BC3 4.0103 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 5738.9 SGR 501.6 SG3 144.2
 RRT .5840 RRF .5600 RTF .9446
 SGB 5760.8 R23 .0069 R13 .9446
 SG1 5746.4 SG2 406.6 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 1276.9 SR 396.2 SS 384.9
 CRT .1547 CRS .1148 CST -.9626
 LSA 1331.0 MSA 404.6 SSA 17.0
 EL1 1278.5 EL2 390.9 ALF 3.03

LAUNCH DATE FEB 21 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 568.930

RL 147.96 LAL .00 LOL 152.19 VL 26.219 GAL 7.45 AZL 90.01 MCA 284.32 SMA 119.95 ECC .26542 INC .0000 V1 30.112
 RP 107.78 LAP .01 LOP 76.52 VP 36.828 GAP 14.27 AZP 90.00 TAL 158.20 TAP 82.52 RCA 88.11 APO 151.79 V2 35.161
 RC 191.786 GL -.04 GP -12.83 ZAL 53.70 ZAP 166.85 ETS 286.30 ZAE 130.77 ETE 191.15 ZAC 174.01 ETC 169.30 CLP-177.11

PLANETOCENTRIC CONIC

C3 26.028 VHL 5.102 DLA 23.13 RAL 99.24 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 9.523 DPA 10.48 RAP 80.25 ECC 1.4284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 25 37 3099.86 -27.24 103.64 333.92 81.97 5 17 17 2499.9 -28.07 95.07
 90.00 23 22 11 4101.02 -3.15 166.46 325.83 61.84 24 30 32 3501.0 -6.89 159.77
 100.00 6 4 43 2780.32 -29.26 80.42 334.21 83.58 6 51 3 2180.3 -29.84 71.67
 100.00 0 29 41 3895.79 -1.38 150.39 324.85 60.14 1 34 37 3295.8 -5.34 143.85
 110.00 7 48 58 2454.18 -34.10 56.09 334.65 87.53 8 29 52 1854.2 -34.07 46.85
 110.00 1 1 56 3794.70 2.75 140.16 322.27 55.91 2 5 11 3194.7 -1.74 133.95

DIFFERENTIAL CORRECTIONS

TOE -.2438 TRA 3.6206 TC3-3.5896 BAU 1.2496
 RDE .3329 RRA .2469 RC3 -.1057 FAU .01719
 FDE -.1784 FRA 1.2240 FC3 -.5717 BSP 18723
 BDE .4127 BRA 3.6290 BC3 3.5911 FSP -474

MID-COURSE EXECUTION ACCURACY

SGT 5748.1 SGR 492.3 SG3 139.7
 RRT .5745 RRF .5511 RTF .9468
 SGB 5769.2 R23 .0054 R13 .9469
 SG1 5755.1 SG2 402.4 THA 2.83

ORBIT DETERMINATION ACCURACY

ST 1358.9 SR 384.7 SS 404.4
 CRT .0344 CRS .1814 CST -.9757
 LSA 1415.3 MSA 393.6 SSA 16.0
 EL1 1359.0 EL2 384.4 ALF .61

LAUNCH DATE FEB 21 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 574.084

RL 147.96 LAL .00 LOL 152.19 VL 26.179 GAL 8.26 AZL 90.21 MCA 287.55 SMA 119.72 ECC .27410 INC .2076 V1 30.112
 RP 107.75 LAP .20 LOP 79.74 VP 36.810 GAP 14.86 AZP 90.06 TAL 156.65 TAP 84.20 RCA 86.91 APO 152.54 V2 35.172
 RC 193.588 GL -1.00 GP -12.54 ZAL 51.19 ZAP 167.30 ETS 282.78 ZAE 130.79 ETE 190.90 ZAC 176.11 ETC 157.35 CLP-177.96

PLANETOCENTRIC CONIC

C3 29.091 VHL 5.394 DLA 21.99 RAL 101.88 RAD 6568.2 VEL 12.266 PTH 2.21 VHP 9.868 DPA 11.06 RAP 82.56 ECC 1.4788
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 45 3071.92 -27.49 101.63 338.34 82.94 5 42 56 2471.9 -28.19 93.04
 90.00 23 17 6 4184.34 -4.47 171.11 329.56 61.69 24 26 51 3584.3 -4.25 164.47
 100.00 6 28 43 2759.26 -29.41 78.87 338.58 84.38 7 14 42 2159.3 -29.88 70.10
 100.00 0 26 45 3972.23 1.21 154.58 328.63 60.13 1 32 58 3372.2 -2.77 148.06
 110.00 8 9 27 2444.10 -34.13 55.31 338.95 88.00 8 50 11 1844.1 -34.03 46.06
 110.00 1 2 31 3860.15 5.24 143.59 326.12 56.17 2 6 51 3260.2 .76 137.36

DIFFERENTIAL CORRECTIONS

TOE -.4203 TRA 4.0041 TC3-3.1922 BAU 1.2420
 ROE .3403 RRA .2640 RC3 -.0909 FAU .01567
 FOE -.2189 FRA 1.2795 FC3 -.4662 BSP 18815
 BOE .5408 BRA 4.0128 BC3 3.1935 FSP -461

MID-COURSE EXECUTION ACCURACY

SGT 5753.3 SGR 481.5 SG3 135.4
 RRT .5645 RRF .5416 RTF .9494
 SGB 5773.4 R23 .0037 R13 .9494
 SG1 5759.7 SG2 397.0 THA 2.72

ORBIT DETERMINATION ACCURACY

ST 1450.5 SR 372.8 SS 424.3
 CRT -.0670 CRS .2378 CST -.9843
 LSA 1509.9 MSA 378.1 SSA 15.1
 EL1 1450.7 EL2 371.9 ALF 178.94

LAUNCH DATE FEB 21 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 579.132

RL 147.96 LAL .00 LOL 152.19 VL 26.140 GAL 9.12 AZL 90.42 MCA 290.78 SMA 119.50 ECC .28361 INC .4158 V1 30.112
 RP 107.71 LAP .39 LOP 82.97 VP 36.792 GAP 15.50 AZP 90.15 TAL 155.14 TAP 85.92 RCA 85.61 APO 153.39 V2 35.182
 RC 195.366 GL -1.88 GP -12.27 ZAL 48.85 ZAP 167.68 ETS 278.96 ZAE 130.80 ETE 190.67 ZAC 177.70 ETC 124.92 CLP-178.82

PLANETOCENTRIC CONIC

C3 32.692 VHL 5.718 DLA 20.90 RAL 104.33 RAD 6568.3 VEL 12.412 PTH 2.24 VHP 10.244 DPA 11.56 RAP 84.88 ECC 1.5380
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 15 7 3051.91 -27.65 100.19 342.68 83.65 6 5 59 2451.9 -28.24 91.58
 90.00 23 13 16 4262.96 2.07 175.49 333.31 61.75 24 24 19 3663.0 -1.72 168.87
 100.00 6 50 26 2744.57 -29.50 77.79 342.89 84.94 7 36 11 2144.6 -29.89 69.01
 100.00 0 24 34 4045.53 3.69 158.61 332.41 60.32 1 32 0 3445.5 -.28 152.09
 110.00 8 28 16 2438.49 -34.14 54.87 343.21 88.26 9 8 55 1838.5 -34.01 45.63
 110.00 1 3 13 3924.38 7.66 146.98 329.97 56.58 2 8 38 3324.4 3.21 140.72

DIFFERENTIAL CORRECTIONS

TOE -.6033 TRA 4.4111 TC3-2.8135 BAU 1.2301
 ROE .3485 RRA .2807 RC3 -.0769 FAU .01417
 FOE -.2577 FRA 1.3372 FC3 -.3753 BSP 18881
 BOE .6967 BRA 4.4201 BC3 2.8146 FSP -448

MID-COURSE EXECUTION ACCURACY

SGT 5753.8 SGR 469.5 SG3 131.3
 RRT .5541 RRF .5321 RTF .9522
 SGB 5772.9 R23 .0024 R13 .9522
 SG1 5759.7 SG2 390.4 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 1545.9 SR 360.7 SS 444.3
 CRT -.1482 CRS .2831 CST -.9899
 LSA 1608.4 MSA 360.8 SSA 14.3
 EL1 1546.9 EL2 356.5 ALF 177.91

LAUNCH DATE FEB 21 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 584.052

RL 147.96 LAL .00 LOL 152.19 VL 26.101 GAL 10.04 AZL 90.63 MCA 294.00 SMA 119.28 ECC .29406 INC .6331 V1 30.112
 RP 107.68 LAP .58 LOP -86.20 VP 36.774 GAP 16.19 AZP 90.26 TAL 153.67 TAP 87.68 RCA 84.21 APO 154.36 V2 35.192
 RC 197.118 GL -2.68 GP -12.02 ZAL 46.85 ZAP 167.98 ETS 274.84 ZAE 130.78 ETE 190.45 ZAC 177.54 ETC 67.28 CLP-179.70

PLANETOCENTRIC CONIC

C3 36.928 VHL 6.077 DLA 19.87 RAL 106.59 RAD 6568.4 VEL 12.582 PTH 2.28 VHP 10.655 DPA 12.01 RAP 87.20 ECC 1.6077
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 11 3038.50 -27.75 99.22 346.93 84.13 6 26 49 2438.5 -28.27 90.60
 90.00 23 10 17 4337.89 4.48 179.69 337.07 62.01 24 22 35 3737.9 .70 173.04
 100.00 7 10 10 2735.43 -29.55 77.12 347.12 85.29 7 55 45 2135.4 -29.89 68.33
 100.00 0 22 55 4116.19 6.06 162.52 336.20 60.67 1 31 31 3516.2 2.11 155.96
 110.00 8 45 33 2437.00 -34.15 54.75 347.42 88.33 9 26 10 1837.0 -34.00 45.51
 110.00 1 4 1 3987.39 10.00 150.35 333.80 57.14 2 10 28 3387.4 5.61 144.03

DIFFERENTIAL CORRECTIONS

TDE -.7931 TRA 4.8440 TC3-2.4580 BAU 1.2139
 ROE .3576 RRA .2967 RC3 -.0641 FAU .01271
 FOE -.2949 FRA 1.3974 FC3 -.2979 BSP 18940
 BOE .8700 BRA 4.8531 BC3 2.4588 FSP -435

MID-COURSE EXECUTION ACCURACY

SGT 5750.4 SGR 456.3 SG3 127.3
 RRT .5431 RRF .5223 RTF .9552
 SGB 5768.5 R23 .0015 R13 .9552
 SG1 5755.8 SG2 382.8 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1640.1 SR 348.7 SS 464.0
 CRT -.2131 CRS .3197 CST -.9934
 LSA 1705.5 MSA 343.3 SSA 13.6
 EL1 1641.8 EL2 340.4 ALF 177.29

LAUNCH DATE FEB 21 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 588.822

RL 147.96 LAL .00 LOL 152.19 VL 26.063 GAL 11.04 AZL 90.86 MCA 297.23 SMA 119.07 ECC .30556 INC .8616 V1 30.112
 RP 107.66 LAP .77 LOP 89.43 VP 36.755 GAP 16.95 AZP 90.39 TAL 152.25 TAP 89.48 RCA 82.69 APO 155.45 V2 35.201
 RC 198.846 GL -3.41 GP -11.79 ZAL 44.62 ZAP 168.19 ETS 270.43 ZAE 130.73 ETE 190.24 ZAC 175.85 ETC 39.62 CLP 179.40

PLANETOCENTRIC CONIC

C3 41.920 VHL 6.475 DLA 18.90 RAL 108.68 RAD 6568.6 VEL 12.778 PTH 2.32 VHP 11.106 DPA 12.40 RAP 89.52 ECC 1.6899
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 13 3030.72 -27.80 98.66 351.11 84.40 6 45 43 2430.7 -28.29 90.03
 90.00 23 7 56 4409.71 6.76 183.73 340.83 62.44 24 21 26 3809.7 3.01 177.05
 100.00 7 28 6 2731.18 -29.58 76.80 351.29 85.45 8 13 37 2131.2 -29.89 68.01
 100.00 0 21 39 4184.48 8.32 166.33 339.98 61.19 1 31 24 3584.5 4.42 159.72
 110.00 9 1 24 2439.28 -34.14 54.93 351.58 88.22 9 42 3 1839.3 -34.01 45.69
 110.00 1 4 51 4049.15 12.27 153.71 337.62 57.84 2 12 20 3449.2 7.93 147.30

DIFFERENTIAL CORRECTIONS

TDE -.9873 TRA 5.3088 TC3-2.1230 BAU 1.1901
 ROE .3676 RRA .3118 RC3 -.0521 FAU .01121
 FOE -.3299 FRA 1.4619 FC3 -.2314 BSP 18883
 BOE 1.0536 BRA 5.3180 BC3 2.1236 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 5742.7 SGR 442.1 SG3 123.5
 RRT .5315 RRF .5126 RTF .9582
 SGB 5759.7 R23 .0013 R13 .9582
 SG1 5747.5 SG2 374.2 THA 2.35

ORBIT DETERMINATION ACCURACY

ST 1729.0 SR 336.9 SS 483.2
 CRT -.2640 CRS .3481 CST -.9957
 LSA 1797.1 MSA 326.6 SSA 12.9
 EL1 1731.3 EL2 324.5 ALF 176.95

LAUNCH DATE FEB 21 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 593.410

RL 147.96 LAL .00 LOL 152.19 VL 26.026 GAL 12.11 AZL 91.10 HCA 300.47 SMA 118.86 ECC .31827 INC 1.1040 V1 30.112
 RP 107.63 LAP .95 LOP 92.66 VP 36.737 GAP 17.77 AZP 90.56 TAL 150.88 TAP 91.35 RCA 81.03 APO 156.69 V2 35.209
 RC 200.549 GL -4.07 GP -11.58 ZAL 42.74 ZAP 168.32 ETS 265.77 ZAE 130.65 ETE 190.03 ZAC 173.79 ETC 29.14 CLP 178.47

PLANETOCENTRIC CONIC

C3 47.816 VHL 6.915 CLA 17.99 RAL 110.60 RAD 6568.8 VEL 13.007 PTH 2.37 VHP 11.603 OPA 12.73 RAP 91.82 ECC 1.7869
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 26 3027.84 -27.82 98.45 355.20 84.51 7 2 53 2427.8 -28.29 89.82
 90.00 23 6 2 4478.75 8.91 187.66 344.57 63.01 24 20 41 3878.8 5.22 180.92
 100.00 7 44 24 2731.25 -29.58 76.81 355.38 85.45 8 29 55 2131.3 -29.89 68.02
 100.00 0 20 41 4250.56 10.47 170.06 343.74 61.84 1 31 31 3650.6 6.63 163.38
 110.00 9 15 54 2444.98 -34.13 55.38 355.69 87.96 9 56 39 1845.0 -34.04 46.13
 110.00 1 5 40 4109.61 14.43 157.05 341.43 58.67 2 14 10 3509.6 10.18 150.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1952 TRA 5.8014 TC3-1.8166 BAU 1.1616 SGT 5730.2 SGR 426.4 SG3 119.9 ST 1812.5 SR 324.8 SS 502.7
 RDE .3783 RRA .3251 RC3 -.0415 FAU .00979 RRT .5179 RRF .5008 RTF .9617 CRT -.3083 CRS .3746 CST -.9972
 FDE -.3657 FRA 1.5288 FC3 -.1772 BSP 18911 SGB 5746.0 R23 .0009 R13 .9617 LSA 1883.4 MSA 309.9 SSA 12.3
 BDE 1.2537 BRA 5.8105 BC3 1.8171 FSP -408 SG1 5734.4 SG2 364.4 THA 2.22 EL1 1815.4 EL2 308.5 ALF 176.74

LAUNCH DATE FEB 21 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 597.778

RL 147.96 LAL .00 LOL 152.19 VL 25.990 GAL 13.27 AZL 91.36 HCA 303.70 SMA 118.66 ECC .33235 INC 1.3632 V1 30.112
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.719 GAP 18.69 AZP 90.76 TAL 149.59 TAP 93.28 RCA 79.23 APO 158.10 V2 35.217
 RC 202.227 GL -4.66 GP -11.39 ZAL 41.02 ZAP 168.35 ETS 260.90 ZAE 130.54 ETE 189.83 ZAC 171.66 ETC 24.02 CLP 177.51

PLANETOCENTRIC CONIC

C3 54.804 VHL 7.403 CLA 17.13 RAL 112.36 RAD 6569.0 VEL 13.273 PTH 2.43 VHP 12.153 OPA 13.01 RAP 94.11 ECC 1.9019
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 59 3029.21 -27.81 98.55 359.21 84.46 7 18 29 2429.2 -28.29 89.92
 90.00 23 4 29 4545.20 10.94 191.49 348.28 63.72 24 20 14 3945.2 7.32 184.68
 100.00 7 59 11 2735.14 -29.55 77.10 359.39 85.30 8 44 46 2135.1 -29.89 68.31
 100.00 0 19 54 4314.51 12.50 173.72 347.48 62.62 1 31 49 3714.5 8.73 166.96
 110.00 9 29 7 2453.77 -34.11 56.06 359.72 87.55 10 10 0 1853.8 -34.07 46.82
 110.00 1 6 28 4168.65 16.49 160.39 345.20 59.63 2 15 57 3568.6 12.34 153.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4123 TRA 6.3283 TC3-1.5360 BAU 1.1256 SGT 5712.8 SGR 409.5 SG3 116.4 ST 1887.8 SR 312.7 SS 522.4
 RDE .3900 RRA .3365 RC3 -.0321 FAU .00835 RRT .5025 RRF .4876 RTF .9651 CRT -.3457 CRS .3976 CST -.9982
 FDE -.4010 FRA 1.6005 FC3 -.1320 BSP 18942 SGB 5727.4 R23 .0009 R13 .9651 LSA 1961.6 MSA 293.9 SSA 11.7
 BDE 1.4652 BRA 6.3372 BC3 1.5363 FSP -396 SG1 5716.5 SG2 353.8 THA 2.07 EL1 1890.9 EL2 292.9 ALF 176.64

LAUNCH DATE FEB 21 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 601.880

RL 147.96 LAL .00 LOL 152.19 VL 25.954 GAL 14.54 AZL 91.64 HCA 306.93 SMA 118.47 ECC .34799 INC 1.6428 V1 30.112
 RP 107.58 LAP 1.31 LOP 99.13 VP 36.701 GAP 19.70 AZP 90.99 TAL 148.37 TAP 95.30 RCA 77.24 APO 159.69 V2 35.225
 RC 203.880 GL -5.20 GP -11.21 ZAL 39.45 ZAP 168.27 ETS 255.88 ZAE 130.38 ETE 189.62 ZAC 169.52 ETC 21.05 CLP 176.52

PLANETOCENTRIC CONIC

C3 63.123 VHL 7.945 CLA 16.35 RAL 113.96 RAD 6569.2 VEL 13.582 PTH 2.48 VHP 12.763 OPA 13.23 RAP 96.36 ECC 2.0389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 1 3034.31 -27.78 98.92 3.12 84.27 7 32 35 2434.3 -28.28 90.29
 90.00 23 3 10 4609.12 12.84 195.22 351.96 64.54 24 20 0 4009.1 9.31 188.32
 100.00 8 12 32 2742.39 -29.51 77.63 3.30 85.02 8 58 15 2142.4 -29.89 68.85
 100.00 0 19 16 4376.27 14.40 177.32 351.17 63.52 1 32 13 3776.3 10.73 170.45
 110.00 9 41 6 2465.30 -34.07 56.96 3.67 87.02 10 22 11 1865.3 -34.11 47.72
 110.00 1 7 12 4226.13 18.44 163.71 348.95 60.69 2 17 38 3626.1 14.40 156.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.6402 TRA 6.8959 TC3-1.2794 BAU 1.0799 SGT 5691.3 SGR 391.4 SG3 113.1 ST 1954.5 SR 300.7 SS 542.6
 RDE .4028 RRA .3455 RC3 -.0239 FAU .00689 RRT .4845 RRF .4720 RTF .9686 CRT -.3784 CRS .4183 CST -.9988
 FDE -.4363 FRA 1.6781 FC3 -.0945 BSP 18942 SGB 5704.7 R23 .0012 R13 .9687 LSA 2031.6 MSA 278.5 SSA 11.1
 BDE 1.6889 BRA 6.9046 BC3 1.2797 FSP -385 SG1 5694.5 SG2 342.2 THA 1.92 EL1 1957.9 EL2 277.9 ALF 176.60

LAUNCH DATE FEB 21 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 605.653

RL 147.96 LAL .00 LOL 152.19 VL 25.920 GAL 15.93 AZL 91.95 HCA 310.16 SMA 118.28 ECC .36544 INC 1.9473 V1 30.112
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.684 GAP 20.82 AZP 91.26 TAL 147.25 TAP 97.42 RCA 75.06 APO 161.51 V2 35.232
 RC 205.508 GL -5.69 GP -11.04 ZAL 38.04 ZAP 168.08 ETS 250.77 ZAE 130.17 ETE 189.42 ZAC 167.40 ETC 19.14 CLP 175.48

PLANETOCENTRIC CONIC

C3 73.080 VHL 8.549 CLA 15.62 RAL 115.39 RAD 6569.4 VEL 13.944 PTH 2.54 VHP 13.445 OPA 13.41 RAP 98.58 ECC 2.2027
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 36 3042.64 -27.72 99.52 6.91 83.98 7 45 19 2442.6 -28.27 90.90
 90.00 23 2 2 4670.47 14.60 198.86 355.57 65.47 24 19 53 4070.5 11.17 191.86
 100.00 8 24 32 2752.59 -29.45 78.38 7.10 84.63 9 10 25 2152.6 -29.88 69.61
 100.00 0 18 43 4435.75 16.18 180.84 354.81 64.52 1 32 39 3835.8 12.62 173.87
 110.00 9 51 54 2479.23 -34.01 58.05 7.52 86.38 10 33 14 1879.2 -34.14 48.80
 110.00 1 7 50 4281.87 20.27 167.00 352.63 61.86 2 19 12 3681.9 16.35 160.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8769 TRA 7.5129 TC3-1.0448 BAU 1.0209 SGT 5666.6 SGR 372.4 SG3 109.9 ST 2011.4 SR 288.9 SS 563.5
 RDE .4169 RRA .3513 RC3 -.0168 FAU .00532 RRT .4635 RRF .4538 RTF .9722 CRT -.4069 CRS .4369 CST -.9993
 FDE -.4711 FRA 1.7636 FC3 -.0630 BSP 18841 SGB 5678.9 R23 .0019 R13 .9722 LSA 2092.1 MSA 263.8 SSA 10.6
 BDE 1.9227 BRA 7.5211 BC3 1.0450 FSP -372 SG1 5669.3 SG2 329.8 THA 1.75 EL1 2014.9 EL2 263.5 ALF 176.60

LAUNCH DATE FEB 21 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 609.018

RL 147.96 LAL .00 LOL 152.19 VL 25.887 GAL 17.46 AZL 92.28 HCA 313.40 SMA 118.10 ECC .38497 INC 2.2824 VI 30.112
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.666 GAP 22.08 AZP 91.57 TAL 146.26 TAP 99.65 RCA 72.64 APO 163.57 V2 35.238
 RC 207.111 GL -6.12 GP -10.89 ZAL 36.78 ZAP 167.76 ETS 245.63 ZAE 129.90 ETE 189.21 ZAC 163.33 ETC 17.82 CLP 174.38

PLANETOCENTRIC CONIC

C3 85.068 VHL 9.223 OLA 14.96 RAL 116.66 RAD 6569.7 VEL 14.367 PTH 2.61 VHP 14.210 DPA 13.54 RAP 100.75 ECC 2.4000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 5 47 3053.78 -27.64 100.33 10.56 83.58 7 56 41 2453.8 -28.24 91.71
 90.00 23 1 1 4729.11 16.23 202.40 359.10 66.47 24 19 50 4129.1 12.91 195.29
 100.00 8 35 13 2765.34 -29.37 79.32 10.77 84.15 9 21 19 2165.3 -29.87 70.55
 100.00 0 18 12 4492.79 17.82 184.29 358.36 65.59 1 33 4 3892.8 14.37 177.19
 110.00 10 1 33 2495.25 -33.94 59.29 11.25 85.65 10 43 8 1895.2 -34.17 50.05
 110.00 1 8 22 4335.65 21.96 170.26 356.25 63.12 2 20 37 3735.6 18.17 163.17

DIFFERENTIAL CORRECTIONS

TDE-2.1323 TRA 8.1768 TC3 -.8354 BAU .9502
 RDE .4324 RRA .3529 RC3 -.0109 FAU .00372
 FDE -.5083 FRA 1.8561 FC3 -.0378 BSP 18838
 BDE 2.1757 BRA 8.1845 BC3 .8355 FSP -362

MID-COURSE EXECUTION ACCURACY

SGT 5636.8 SGR 352.2 SG3 106.8
 RRT .4374 RRF .4304 RTF .9757
 SGB 5647.8 R23 .0025 R13 .9757
 SG1 5638.9 SG2 316.6 THA 1.57

ORBIT DETERMINATION ACCURACY

ST 2060.3 SR 277.1 SS 586.1
 CRT -.4351 CRS .4569 CST -.9995
 LSA 2145.4 MSA 249.2 SSA 10.0
 EL1 2063.8 EL2 249.4 ALF 176.60

LAUNCH DATE FEB 21 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 611.874

RL 147.96 LAL .00 LOL 152.19 VL 25.856 GAL 19.16 AZL 92.66 HCA 316.63 SMA 117.93 ECC .40691 INC 2.6554 VI 30.112
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.690 GAP 23.50 AZP 91.93 TAL 145.40 TAP 102.03 RCA 69.95 APO 165.92 V2 35.243
 RC 208.690 GL -6.51 GP -10.74 ZAL 35.69 ZAP 167.31 ETS 240.53 ZAE 129.56 ETE 188.98 ZAC 163.32 ETC 16.88 CLP 173.21

PLANETOCENTRIC CONIC

C3 99.606 VHL 9.980 OLA 14.37 RAL 117.77 RAD 6569.9 VEL 14.864 PTH 2.68 VHP 15.073 DPA 13.63 RAP 102.85 ECC 2.6393
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 15 35 3067.34 -27.53 101.31 14.05 83.10 8 6 43 2467.3 -28.20 92.70
 90.00 23 0 3 4784.86 17.71 205.82 2.51 67.54 24 19 48 4184.9 14.52 198.60
 100.00 8 44 36 2780.28 -29.26 80.42 14.28 83.58 9 30 56 2180.3 -29.84 71.66
 100.00 0 17 39 4547.15 19.31 187.63 1.79 66.73 1 33 26 3947.2 16.00 180.41
 110.00 10 10 1 2513.03 -33.84 60.67 14.83 84.84 10 51 54 1913.0 -34.18 51.44
 110.00 1 8 44 4387.17 23.51 173.45 359.75 64.44 2 21 51 3787.2 19.87 166.20

DIFFERENTIAL CORRECTIONS

TDE-2.4032 TRA 8.8996 TC3 -.6472 BAU .8618
 RDE .4496 RRA .3493 RC3 -.0061 FAU .00196
 FDE -.5468 FRA 1.9585 FC3 -.0170 BSP 18812
 BDE 2.4449 BRA 8.9065 BC3 .6472 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 5602.5 SGR 331.1 SG3 103.9
 RRT .4051 RRF .4009 RTF .9792
 SGB 5612.3 R23 .0033 R13 .9792
 SG1 5604.1 SG2 302.6 THA 1.38

ORBIT DETERMINATION ACCURACY

ST 2099.6 SR 265.5 SS 610.6
 CRT -.4626 CRS .4773 CST -.9997
 LSA 2190.1 MSA 235.1 SSA 9.4
 EL1 2103.3 EL2 235.0 ALF 176.61

LAUNCH DATE FEB 21 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 614.086

RL 147.96 LAL .00 LOL 152.19 VL 25.827 GAL 21.06 AZL 93.08 HCA 319.87 SMA 117.77 ECC .43165 INC 3.0760 VI 30.112
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.633 GAP 25.11 AZP 92.35 TAL 144.71 TAP 104.58 RCA 66.94 APO 168.61 V2 35.248
 RC 210.244 GL -6.86 GP -10.60 ZAL 34.78 ZAP 166.72 ETS 235.51 ZAE 129.13 ETE 188.75 ZAC 161.38 ETC 16.18 CLP 171.95

PLANETOCENTRIC CONIC

C3 117.376 VHL 10.834 OLA 13.84 RAL 118.71 RAD 6570.2 VEL 15.450 PTH 2.76 VHP 16.053 DPA 13.68 RAP 104.87 ECC 2.9317
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 1 3082.98 -27.40 102.43 17.36 82.55 8 15 24 2483.0 -28.15 93.84
 90.00 22 59 5 4837.42 19.05 209.10 5.76 68.64 24 19 42 4237.4 15.98 201.77
 100.00 8 52 39 2797.09 -29.12 81.65 17.60 82.94 9 39 16 2197.1 -29.79 72.91
 100.00 0 17 3 4598.54 20.66 190.85 5.08 67.91 1 33 42 3998.5 17.48 183.50
 110.00 10 17 17 2532.29 -33.71 62.16 18.22 83.97 10 59 29 1932.3 -34.18 52.95
 110.00 1 8 55 4436.11 24.91 176.56 3.11 65.80 2 22 51 3836.1 21.43 169.14

DIFFERENTIAL CORRECTIONS

TDE-2.6916 TRA 9.6898 TC3 -.4788 BAU .7513
 RDE .4692 RRA .3392 RC3 -.0024 FAU-.00001
 FDE -.5875 FRA 2.0730 FC3 .0001 BSP 18761
 BDE 2.7322 BRA 9.6957 BC3 .4788 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5563.8 SGR 309.4 SG3 101.2
 RRT .3645 RRF .3630 RTF .9824
 SGB 5572.4 R23 .0043 R13 .9824
 SG1 5564.9 SG2 288.1 THA 1.16

ORBIT DETERMINATION ACCURACY

ST 2129.3 SR 254.2 SS 637.5
 CRT -.4903 CRS .4990 CST -.9998
 LSA 2226.2 MSA 221.2 SSA 8.9
 EL1 2133.0 EL2 221.2 ALF 176.61

LAUNCH DATE FEB 21 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 615.477

RL 147.96 LAL .00 LOL 152.19 VL 25.799 GAL 23.19 AZL 93.56 HCA 323.10 SMA 117.63 ECC .45966 INC 3.5572 VI 30.112
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.618 GAP 26.95 AZP 92.85 TAL 144.24 TAP 107.34 RCA 63.56 APO 171.70 V2 35.252
 RC 211.773 GL -7.16 GP -10.47 ZAL 34.04 ZAP 165.96 ETS 230.63 ZAE 128.59 ETE 188.50 ZAC 159.55 ETC 15.67 CLP 170.59

PLANETOCENTRIC CONIC

C3 139.288 VHL 11.802 OLA 13.38 RAL 119.45 RAD 6570.5 VEL 16.144 PTH 2.84 VHP 17.173 DPA 13.71 RAP 106.78 ECC 3.2923
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 30 59 3100.40 -27.24 103.68 20.43 81.95 8 22 40 2500.4 -28.07 95.11
 90.00 22 58 4 4886.44 20.23 212.21 8.82 69.76 24 19 30 4286.4 17.30 204.76
 100.00 8 59 20 2815.50 -28.96 83.00 20.70 82.25 9 46 15 2215.5 -29.73 74.28
 100.00 0 16 21 4646.57 21.86 193.92 8.16 69.09 1 33 47 4046.6 18.82 186.44
 110.00 10 23 18 2552.75 -33.55 63.74 21.39 83.05 11 5 51 1952.8 -34.15 54.54
 110.00 1 8 52 4482.09 26.16 179.55 6.28 67.17 2 23 34 3882.1 22.84 171.97

DIFFERENTIAL CORRECTIONS

TDE-2.9948 TRA10.5607 TC3 -.3279 BAU .6106
 RDE .4916 RRA .3209 RC3 .0002 FAU-.00233
 FDE -.6299 FRA 2.2026 FC3 .0145 BSP 18589
 BDE 3.0349 BRA10.5656 BC3 .3279 FSP -332

MID-COURSE EXECUTION ACCURACY

SGT 5521.4 SGR 287.4 SG3 98.6
 RRT .3129 RRF .3141 RTF .9855
 SGB 5528.9 R23 .0053 R13 .9855
 SG1 5522.1 SG2 273.0 THA .94

ORBIT DETERMINATION ACCURACY

ST 2148.0 SR 243.5 SS 667.3
 CRT -.5183 CRS .5219 CST -.9999
 LSA 2252.8 MSA 207.8 SSA 8.3
 EL1 2151.7 EL2 207.8 ALF 176.61

LAUNCH DATE FEB 22 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 3 1969

HELIOCENTRIC CONIC

DISTANCE 188.787

RL 148.00 LAL .00 LOL 153.20 VL 27.321 GAL -8.93 AZL 88.90 MCA 84.46 SMA 126.75 ECC .22694 INC 1.0964 V1 30.106
 RP 108.42 LAP 1.09 LOP 237.66 VP 37.433 GAP -10.18 AZP 89.89 TAL 214.22 TAP 298.68 RCA 97.99 APO 155.52 V2 34.954
 RC 54.398 GL 5.29 GP 16.77 ZAL 145.66 ZAP 22.33 ETS 315.73 ZAE 146.72 ETE 19.43 ZAC 127.66 ETC 149.09 CLP -14.96

PLANETOCENTRIC CONIC

C3 31.391 VHL 5.603 DLA 7.71 RAL 4.49 RAD 6568.3 VEL 12.360 PTH 2.23 VHP 7.397 DPA 29.47 RAP 34.24 ECC 1.5166
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 57 2566.40 -26.26 65.03 236.24 100.99 1 17 43 1966.4 -24.48 56.82
 90.00 14 29 1 4728.03 16.20 202.33 231.66 66.45 15 47 49 4128.0 12.88 195.23
 100.00 2 0 0 2292.09 -27.53 44.57 235.95 102.12 2 38 12 1692.1 -25.59 36.31
 100.00 15 46 39 4477.57 17.39 183.36 231.11 65.29 17 1 17 3877.6 13.91 176.30
 110.00 3 16 43 2052.02 -30.95 25.38 234.99 105.29 3 50 55 1452.0 -28.54 17.01
 110.00 16 46 26 4290.40 20.54 167.51 229.46 62.05 17 57 56 3690.4 16.64 160.56

DIFFERENTIAL CORRECTIONS

TDE -.1816 TRA -.2978 TC3 .4510 BAU .2052
 RDE -.3388 RRA .2236 RC3 .1890 FAU .04597
 FDE -.1834 FRA -.3725 FC3-1.2678 BSP 1756
 BDE .3843 BRA .3724 BC3 .4890 FSP -330

MID-COURSE EXECUTION ACCURACY

SGT 619.9 SGR 467.0 SG3 128.2
 RRT .3470 RRF -.4685 RTF -.6143
 SGB 776.2 R23 -.0867 R13 -.6663
 SG1 657.0 SG2 413.3 THA 25.20

ORBIT DETERMINATION ACCURACY

ST 207.9 SR 353.3 SS 143.3
 CRT .7902 CRS -.7158 CST -.9613
 LSA 411.0 MSA 137.0 SSA 30.5
 EL1 393.7 EL2 114.3 ALF 62.56

LAUNCH DATE FEB 22 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 195.544

RL 148.00 LAL .00 LOL 153.20 VL 27.468 GAL -8.87 AZL 89.09 MCA 87.65 SMA 127.73 ECC .21992 INC .9115 V1 30.106
 RP 108.45 LAP .91 LOP 240.85 VP 37.528 GAP -9.31 AZP 89.96 TAL 215.67 TAP 303.31 RCA 99.64 APO 155.82 V2 34.942
 RC 56.186 GL 4.49 GP 17.90 ZAL 147.03 ZAP 25.09 ETS 319.33 ZAE 146.24 ETE 21.82 ZAC 127.24 ETC 148.21 CLP -17.88

PLANETOCENTRIC CONIC

C3 30.364 VHL 5.510 DLA 6.47 RAL 3.63 RAD 6568.2 VEL 12.318 PTH 2.22 VHP 6.952 DPA 30.62 RAP 34.01 ECC 1.4997
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 41 5 2518.65 -25.60 61.69 234.24 102.54 1 23 3 1918.7 -23.61 53.58
 90.00 14 16 1 4759.07 17.04 204.23 230.43 67.03 15 35 20 4159.1 13.78 197.07
 100.00 2 5 30 2246.36 -26.84 41.35 233.92 103.68 2 42 56 1646.4 -24.69 33.20
 100.00 15 34 17 4506.59 18.20 185.13 229.89 65.87 16 49 24 3906.6 14.79 178.00
 110.00 3 20 47 2010.75 -30.17 22.42 232.88 106.89 3 54 18 1410.7 -27.56 14.20
 110.00 16 35 29 4314.97 21.31 168.99 228.30 62.62 17 47 24 3715.0 17.48 161.97

DIFFERENTIAL CORRECTIONS

TDE -.1674 TRA -.2846 TC3 .4747 BAU .2135
 RDE -.3236 RRA .2347 RC3 .2265 FAU .05058
 FDE -.2430 FRA -.4385 FC3-1.4421 BSP 1855
 BDE .3643 BRA .3689 BC3 .5260 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 626.6 SGR 485.7 SG3 144.6
 RRT .3812 RRF -.5223 RTF -.6206
 SGB 792.8 R23 -.0997 R13 -.6861
 SG1 674.0 SG2 417.4 THA 27.97

ORBIT DETERMINATION ACCURACY

ST 196.3 SR 344.5 SS 175.2
 CRT .7705 CRS -.7415 CST -.9700
 LSA 408.2 MSA 142.5 SSA 31.5
 EL1 379.9 EL2 113.5 ALF 63.78

LAUNCH DATE FEB 22 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 202.278

RL 148.00 LAL .00 LOL 153.20 VL 27.597 GAL -8.83 AZL 89.27 MCA 90.83 SMA 128.61 ECC .21384 INC .7276 V1 30.106
 RP 108.49 LAR .73 LOP 244.03 VP 37.612 GAP -8.49 AZP 90.01 TAL 217.03 TAP 307.86 RCA 101.11 APO 156.11 V2 34.929
 RC 58.051 GL 3.66 GP 19.14 ZAL 148.27 ZAP 28.08 ETS 322.39 ZAE 145.91 ETE 24.49 ZAC 126.61 ETC 147.38 CLP -20.95

PLANETOCENTRIC CONIC

C3 29.507 VHL 5.432 DLA 5.24 RAL 2.89 RAD 6568.2 VEL 12.283 PTH 2.21 VHP 6.541 DPA 31.80 RAP 33.57 ECC 1.4856
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 32 2472.65 -24.88 58.51 232.49 103.98 1 28 45 1872.7 -22.71 50.51
 90.00 14 3 43 4790.71 17.87 206.18 229.43 67.66 15 23 34 4190.7 14.68 198.95
 100.00 2 11 21 2202.32 -26.09 38.28 232.14 105.13 2 48 3 1602.3 -23.76 30.26
 100.00 15 22 35 4536.28 19.02 186.96 228.91 66.50 16 38 11 3936.3 15.68 179.76
 110.00 3 25 15 1971.02 -29.35 19.62 231.03 108.36 3 58 6 1371.0 -26.56 11.54
 110.00 16 25 10 4340.34 22.10 170.54 227.37 63.23 17 37 31 3740.3 18.33 163.44

DIFFERENTIAL CORRECTIONS

TDE -.1553 TRA -.2760 TC3 .4898 BAU .2204
 RDE -.3068 RRA .2471 RC3 .2686 FAU .05559
 FDE -.3109 FRA -.5084 FC3-1.6310 BSP 1911
 BDE .3439 BRA .3704 BC3 .5586 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 628.8 SGR 508.3 SG3 162.5
 RRT .4122 RRF -.5772 RTF -.6187
 SGB 808.6 R23 -.1157 R13 -.7032
 SG1 689.5 SG2 422.4 THA 31.26

ORBIT DETERMINATION ACCURACY

ST 186.5 SR 333.2 SS 208.7
 CRT .7447 CRS -.7555 CST -.9731
 LSA 407.6 MSA 148.8 SSA 32.2
 EL1 364.4 EL2 113.8 ALF 64.74

LAUNCH DATE FEB 22 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 208.988

RL 148.00 LAL .00 LOL 153.20 VL 27.710 GAL -8.78 AZL 89.46 MCA 94.01 SMA 129.40 ECC .20859 INC .5436 V1 30.106
 RP 108.53 LAP .54 LOP 247.21 VP 37.683 GAP -7.70 AZP 90.04 TAL 218.28 TAP 312.30 RCA 102.40 APO 156.39 V2 34.917
 RC 59.985 GL 2.78 GP 20.50 ZAL 149.39 ZAP 31.29 ETS 325.03 ZAE 145.73 ETE 27.52 ZAC 125.78 ETC 146.63 CLP -24.18

PLANETOCENTRIC CONIC

C3 28.789 VHL 5.366 DLA 4.02 RAL 2.29 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 6.162 DPA 33.03 RAP 32.88 ECC 1.4738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 19 2428.26 -24.11 55.49 230.97 105.31 1 34 48 1828.3 -21.78 47.59
 90.00 13 52 6 4822.78 18.68 208.18 228.65 68.33 15 12 29 4222.8 15.58 200.88
 100.00 2 17 33 2159.82 -25.30 35.37 230.60 106.47 2 53 33 1559.8 -22.80 27.47
 100.00 15 11 34 4566.45 19.83 188.83 228.15 67.16 16 27 40 3966.5 16.56 181.56
 110.00 3 30 6 1932.72 -28.50 16.96 229.43 109.73 4 2 19 1332.7 -25.55 9.03
 110.00 16 15 30 4366.32 22.89 172.15 226.66 63.89 17 28 16 3766.3 19.19 164.96

DIFFERENTIAL CORRECTIONS

TDE -.1438 TRA -.2704 TC3 .4974 BAU .2268
 RDE -.2878 RRA .2610 RC3 .3160 FAU .06108
 FDE -.3897 FRA -.5836 FC3-1.8366 BSP 1967
 BDE .3218 BRA .3759 BC3 .5893 FSP -498

MID-COURSE EXECUTION ACCURACY

SGT 626.4 SGR 536.2 SG3 182.2
 RRT .4386 RRF -.6322 RTF -.6111
 SGB 824.5 R23 -.1314 R13 -.7214
 SG1 704.5 SG2 428.4 THA 35.21

ORBIT DETERMINATION ACCURACY

ST 177.2 SR 318.7 SS 245.0
 CRT .7099 CRS -.7607 CST -.9719
 LSA 409.6 MSA 155.4 SSA 32.6
 EL1 346.1 EL2 114.9 ALF 65.61

LAUNCH DATE FEB 22 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 215.672

RL 148.00 LAL .00 LOL 153.20 VL 27.808 GAL -8.75 AZL 89.64 HCA 97.19 SMA 130.09 ECC .20406 INC .3582 V1 30.106
 RP 108.57 LAP .36 LOP 250.39 VP 37.745 GAP -6.96 AZP 90.04 TAL 219.43 TAP 316.62 RCA 103.54 APO 156.63 V2 34.906
 RC 61.981 GL 1.86 GP 21.98 ZAL 150.37 ZAP 34.73 ETS 327.40 ZAE 145.65 ETE 30.95 ZAC 124.72 ETC 145.99 CLP -27.59

PLANETOCENTRIC CONIC

C3 28.183 VHL 5.309 DLA 2.81 RAL 1.81 RAD 6568.1 VEL 12.229 PTH 2.20 VHP 5.816 OPA 34.30 RAP 31.92 ECC 1.4638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 28 2385.28 -23.31 52.59 229.69 106.55 1 41 13 1785.3 -20.82 44.81
 90.00 13 41 10 4855.14 19.48 210.22 228.08 69.04 15 2 6 4255.1 16.46 202.84
 100.00 2 24 7 2118.69 -24.48 32.59 229.30 107.71 2 59 26 1518.7 -21.83 24.80
 100.00 15 1 12 4596.97 20.62 190.75 227.60 67.87 16 17 49 3997.0 17.44 183.40
 110.00 3 35 22 1895.68 -27.62 14.44 228.07 110.99 4 6 58 1295.7 -24.52 6.64
 110.00 16 6 27 4392.74 23.67 173.80 226.15 64.59 17 19 40 3792.7 20.05 166.53

DIFFERENTIAL CORRECTIONS

TDE -.1335 TRA -.2689 TC3 .4964 BAU .2331
 ROE -.2661 RRA .2763 RC3 .3690 FAU .06699
 FDE -.4797 FRA -.6622 FC3-2.0577 BSP 2022
 BOE .2977 BRA .3856 BC3 .6186 FSP -565

MID-COURSE EXECUTION ACCURACY

SGT 618.9 SGR 570.2 SG3 203.6
 RRT .4566 RRF -.6854 RTF -.5958
 SGB 841.5 R23 -.1448 R13 -.7415
 SG1 719.6 SG2 436.3 THA 39.91

ORBIT DETERMINATION ACCURACY

ST 169.2 SR 301.1 SS 283.6
 CRT .6630 CRS -.7575 CST -.9668
 LSA 415.4 MSA 161.5 SSA 32.7
 EL1 324.8 EL2 117.4 ALF 66.28

LAUNCH DATE FEB 22 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 222.327

RL 148.00 LAL .00 LOL 153.20 VL 27.892 GAL -8.71 AZL 89.83 HCA 100.37 SMA 130.69 ECC .20017 INC .1697 V1 30.106
 RP 108.60 LAP .17 LOP 253.57 VP 37.796 GAP -6.25 AZP 90.03 TAL 220.45 TAP 320.81 RCA 104.53 APO 156.85 V2 34.894
 RC 64.032 GL .89 GP 23.58 ZAL 151.20 ZAP 38.38 ETS 329.59 ZAE 145.64 ETE 34.84 ZAC 123.44 ETC 145.47 CLP -31.21

PLANETOCENTRIC CONIC

C3 27.669 VHL 5.260 DLA 1.61 RAL 1.47 RAD 6568.1 VEL 12.208 PTH 2.19 VHP 5.504 OPA 35.60 RAP 30.67 ECC 1.4554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 9 0 2343.49 -22.47 49.82 228.63 107.69 1 48 3 1743.5 -19.84 42.13
 90.00 13 30 53 4887.75 20.27 212.29 227.71 69.79 14 52 21 4287.8 17.33 204.84
 100.00 2 31 5 2078.70 -23.63 29.93 228.21 108.87 3 5 44 1478.7 -20.83 22.25
 100.00 14 51 29 4627.77 21.40 192.71 227.25 68.62 16 8 37 4027.8 18.31 185.28
 110.00 3 41 3 1859.71 -26.72 12.03 226.93 112.16 4 12 3 1259.7 -23.48 4.37
 110.00 15 58 0 4419.52 24.44 175.50 225.85 65.32 17 11 40 3819.5 20.91 168.14

DIFFERENTIAL CORRECTIONS

TDE -.1242 TRA -.2706 TC3 .4868 BAU .2399
 ROE -.2409 RRA .2933 RC3 .4286 FAU .07333
 FDE -.5832 FRA -.7444 FC3-2.2944 BSP 2112
 BOE .2710 BRA .3991 BC3 .6486 FSP -642

MID-COURSE EXECUTION ACCURACY

SGT 608.2 SGR 611.8 SG3 226.8
 RRT .4642 RRF -.7355 RTF -.5726
 SGB 861.3 R23 -.1507 R13 -.7658
 SG1 737.0 SG2 445.8 THA 45.56

ORBIT DETERMINATION ACCURACY

ST 162.3 SR 279.6 SS 325.3
 CRT .5993 CRS -.7441 CST -.9574
 LSA 426.2 MSA 166.3 SSA 32.5
 EL1 299.8 EL2 121.2 ALF 66.81

LAUNCH DATE FEB 22 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 228.952

RL 148.00 LAL .00 LOL 153.20 VL 27.964 GAL -8.67 AZL 90.02 HCA 103.54 SMA 131.21 ECC .19682 INC .0198 V1 30.106
 RP 108.64 LAP -.02 LOP 256.74 VP 37.839 GAP -5.57 AZP 90.00 TAL 221.33 TAP 324.88 RCA 105.38 APO 157.03 V2 34.883
 RC 66.131 GL -.11 GP 25.31 ZAL 151.89 ZAP 42.26 ETS 331.67 ZAE 145.65 ETE 39.24 ZAC 121.91 ETC 145.11 CLP -35.04

PLANETOCENTRIC CONIC

C3 27.227 VHL 5.218 DLA .42 RAL 1.25 RAD 6568.1 VEL 12.190 PTH 2.19 VHP 5.224 OPA 36.91 RAP 29.10 ECC 1.4481
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 57 2302.61 -21.60 47.14 227.77 108.77 1 55 19 1702.6 -18.84 39.55
 90.00 13 21 12 4920.63 21.02 214.40 227.53 70.58 14 43 12 4320.6 18.18 206.88
 100.00 2 38 29 2039.60 -22.74 27.36 227.34 109.94 3 12 29 1439.6 -19.82 19.79
 100.00 14 42 21 4658.87 22.16 194.71 227.09 69.41 16 0 0 4058.9 19.16 187.20
 110.00 3 47 11 1824.58 -25.80 9.71 226.01 113.24 4 17 35 1224.6 -22.43 2.18
 110.00 15 50 9 4446.65 25.20 177.24 225.73 66.10 17 4 15 3846.6 21.76 169.78

DIFFERENTIAL CORRECTIONS

TDE -.1191 TRA -.2788 TC3 .4637 BAU .2466
 ROE -.2123 RRA .3110 RC3 .4940 FAU .07983
 FDE -.6961 FRA -.8239 FC3-2.5382 BSP 2175
 BOE .2434 BRA .4177 BC3 .6775 FSP -718

MID-COURSE EXECUTION ACCURACY

SGT 587.4 SGR 660.8 SG3 250.7
 RRT .4519 RRF -.7803 RTF -.5310
 SGB 884.2 R23 -.1493 R13 -.7916
 SG1 756.4 SG2 457.8 THA 52.32

ORBIT DETERMINATION ACCURACY

ST 160.4 SR 255.1 SS 367.9
 CRT .5202 CRS -.7174 CST -.9461
 LSA 443.2 MSA 169.2 SSA 32.2
 EL1 272.8 EL2 128.1 ALF 66.37

LAUNCH DATE FEB 22 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 235.547

RL 148.00 LAL .00 LOL 153.20 VL 28.024 GAL -8.63 AZL 90.22 HCA 106.72 SMA 131.65 ECC .19393 INC .2175 V1 30.106
 RP 108.67 LAP -.21 LOP 259.92 VP 37.874 GAP -4.93 AZP 89.94 TAL 222.08 TAP 328.80 RCA 106.12 APO 157.18 V2 34.873
 RC 68.274 GL -1.16 GP 27.15 ZAL 152.42 ZAP 46.33 ETS 333.74 ZAE 145.60 ETE 44.17 ZAC 120.15 ETC 144.94 CLP -39.11

PLANETOCENTRIC CONIC

C3 26.845 VHL 5.181 DLA -.77 RAL 1.16 RAD 6568.1 VEL 12.175 PTH 2.18 VHP 4.977 OPA 38.22 RAP 27.19 ECC 1.4418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 22 2262.34 -20.70 44.53 227.11 109.77 2 3 5 1662.3 -17.82 37.04
 90.00 13 12 3 4953.87 21.76 216.56 227.54 71.42 14 34 37 4353.9 19.02 208.96
 100.00 2 46 21 2001.10 -21.83 24.87 226.66 110.95 3 19 43 1401.1 -18.78 17.40
 100.00 14 33 45 4690.35 22.90 196.75 227.11 70.24 15 51 55 4090.3 20.00 189.16
 110.00 3 53 47 1790.03 -24.85 7.48 225.29 114.26 4 23 37 1190.0 -21.36 .06
 110.00 15 42 48 4474.17 25.95 179.03 225.79 66.93 16 57 22 3874.2 22.60 171.48

DIFFERENTIAL CORRECTIONS

TDE -.1174 TRA -.2925 TC3 .4283 BAU .2546
 ROE -.1795 RRA .3293 RC3 .5656 FAU .08641
 FDE -.8202 FRA -.8994 FC3-2.7865 BSP 2259
 BOE .2145 BRA .4405 BC3 .7095 FSP -798

MID-COURSE EXECUTION ACCURACY

SGT 564.3 SGR 718.1 SG3 275.3
 RRT .4148 RRF -.8195 RTF -.4683
 SGB 913.3 R23 -.1339 R13 -.8207
 SG1 782.3 SG2 471.4 THA 60.20

ORBIT DETERMINATION ACCURACY

ST 162.6 SR 227.3 SS 412.3
 CRT .4167 CRS -.6697 CST -.9335
 LSA 467.2 MSA 169.9 SSA 31.8
 EL1 242.8 EL2 138.4 ALF 64.65

LAUNCH DATE FEB 22 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 28.074 GAL -8.59 AZL 90.42 HCA 109.89 SMA 132.01 ECC .19144 INC .4208 V1 30.106
 RP 108.70 LAP -.40 LOP 263.09 VP 37.901 GAP -4.31 AZP 89.86 TAL 222.69 TAP 332.58 RCA 106.74 APO 157.28 V2 34.862
 RC 70.456 GL -2.27 GP 29.10 ZAL 152.80 ZAP 50.60 ETS 335.85 ZAE 145.44 ETE 49.63 ZAC 118.16 ETC 144.96 CLP -43.41

DISTANCE 242.109

PLANETOCENTRIC CONIC

C3 26.512 VHL 5.149 DLA -1.96 RAL 1.19 RAD 6568.1 VEL 12.161 PTH 2.18 VHP 4.765 DPA 39.52 RAP 24.93 ECC 1.4363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 20 2222.34 -19.76 41.97 226.63 110.71 2 11 22 1622.3 -16.76 34.58
 90.00 13 3 21 4987.68 22.48 218.78 227.72 72.31 14 26 29 4387.7 19.85 211.09
 100.00 2 54 46 1962.88 -20.88 22.43 226.16 111.89 3 27 29 1362.9 -17.72 15.05
 100.00 14 25 36 4722.36 23.62 198.86 227.31 71.12 15 44 19 4122.4 20.82 191.18
 110.00 4 0 55 1755.80 -23.88 5.30 224.75 115.22 4 30 11 1155.8 -20.28 358.00
 110.00 15 35 56 4502.22 26.68 180.88 226.04 67.80 16 50 59 3902.2 23.43 173.22

DIFFERENTIAL CORRECTIONS

TDE -.1194 TRA -.3108 TC3 .3805 BAU .2651
 RDE -.1417 RRA .3484 RC3 .6439 FAU .09294
 FDE -.9559 FRA -.9700 FC3-3.0350 BSP 2395
 BDE .1853 BRA .4669 BC3 .7479 FSP -884

MID-COURSE EXECUTION ACCURACY

SGT 539.4 SGR 784.3 SG3 300.1
 RRT .3463 RRF -.8530 RTF -.3787
 SGB 951.9 R23 -.1026 R13 -.8514
 SG1 819.4 SG2 484.3 THA 68.95

ORBIT DETERMINATION ACCURACY

ST 169.0 SR 197.0 SS 459.4
 CRT .2732 CRS -.5831 CST -.9217
 LSA 499.1 MSA 168.5 SSA 31.2
 EL1 210.1 EL2 152.5 ALF 59.71

LAUNCH DATE FEB 22 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 28.114 GAL -8.54 AZL 90.63 HCA 113.06 SMA 132.31 ECC .18929 INC .6321 V1 30.106
 RP 108.73 LAP -.58 LOP 266.26 VP 37.922 GAP -3.72 AZP 89.75 TAL 223.17 TAP 336.22 RCA 107.26 APO 157.35 V2 34.853
 RC 72.672 GL -3.44 GP 31.13 ZAL 153.02 ZAP 55.02 ETS 338.06 ZAE 145.09 ETE 55.56 ZAC 115.98 ETC 145.21 CLP -47.96

DISTANCE 248.640

PLANETOCENTRIC CONIC

C3 26.220 VHL 5.121 DLA -3.16 RAL 1.35 RAD 6568.1 VEL 12.149 PTH 2.18 VHP 4.586 DPA 40.78 RAP 22.33 ECC 1.4315
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 55 2182.25 -18.77 39.44 226.33 111.60 2 20 17 1582.3 -15.67 32.14
 90.00 12 55 2 5022.27 23.17 221.08 228.07 73.26 14 18 45 4422.3 20.66 213.31
 100.00 3 3 47 1924.61 -19.89 20.02 225.85 112.79 3 35 51 1324.6 -16.63 12.74
 100.00 14 17 51 4755.14 24.32 201.04 227.68 72.07 15 37 6 4155.1 21.64 193.27
 110.00 4 8 38 1721.56 -22.87 3.15 224.40 116.13 4 37 20 1121.6 -19.17 355.97
 110.00 15 29 29 4530.95 27.41 182.80 226.46 68.72 16 45 0 3931.0 24.27 175.04

DIFFERENTIAL CORRECTIONS

TDE -.1283 TRA -.3364 TC3 .3158 BAU .2777
 RDE -.0997 RRA .3663 RC3 .7264 FAU .09893
 FDE -1.0951 FRA -1.0256 FC3-3.2666 BSP 2545
 BDE .1625 BRA .4974 BC3 .7921 FSP -963

MID-COURSE EXECUTION ACCURACY

SGT 517.1 SGR 857.0 SG3 323.4
 RRT .2299 RRF -.8802 RTF -.2443
 SGB 1000.9 R23 -.0613 R13 -.8791
 SG1 869.3 SG2 496.1 THA 78.21

ORBIT DETERMINATION ACCURACY

ST 183.0 SR 167.7 SS 506.0
 CRT .0749 CRS -.4298 CST -.9154
 LSA 537.9 MSA 165.2 SSA 30.6
 EL1 185.3 EL2 165.1 ALF 20.28

LAUNCH DATE FEB 22 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 28.145 GAL -8.49 AZL 90.85 HCA 116.22 SMA 132.54 ECC .18742 INC .8537 V1 30.106
 RP 108.76 LAP -.77 LOP 269.42 VP 37.937 GAP -3.16 AZP 89.62 TAL 223.51 TAP 339.73 RCA 107.70 APO 157.38 V2 34.844
 RC 74.919 GL -4.67 GP 33.23 ZAL 153.07 ZAP 59.57 ETS 340.42 ZAE 144.49 ETE 61.87 ZAC 113.61 ETC 145.67 CLP -52.74

DISTANCE 255.138

PLANETOCENTRIC CONIC

C3 25.964 VHL 5.095 DLA -4.38 RAL 1.63 RAD 6568.0 VEL 12.138 PTH 2.18 VHP 4.442 DPA 41.97 RAP 19.39 ECC 1.4273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 12 2141.67 -17.73 36.92 226.22 112.44 2 29 54 1541.7 -14.54 29.70
 90.00 12 47 0 5058.00 23.85 223.47 228.61 74.27 14 11 18 4458.0 21.47 215.62
 100.00 3 13 29 1885.90 -18.85 17.61 225.72 113.64 3 44 55 1285.9 -15.49 10.43
 100.00 14 10 24 4788.99 25.01 203.32 228.23 73.08 15 30 13 4189.0 22.46 195.45
 110.00 4 17 1 1687.01 -21.81 1.02 224.22 116.99 4 45 8 1087.0 -18.02 353.94
 110.00 15 23 22 4560.65 28.13 184.81 224.06 69.72 16 39 22 3960.6 25.10 176.94

DIFFERENTIAL CORRECTIONS

TDE -.1432 TRA -.3669 TC3 .2369 BAU .2941
 RDE -.0521 RRA .3831 RC3 .8135 FAU .10431
 FDE -1.2401 FRA -1.0677 FC3-3.4780 BSP 2763
 BDE .1524 BRA .5305 BC3 .8473 FSP -1042

MID-COURSE EXECUTION ACCURACY

SGT 505.4 SGR 936.7 SG3 345.1
 RRT .0651 RRF -.9025 RTF -.0658
 SGB 1064.3 R23 -.0168 R13 -.9024
 SG1 937.5 SG2 503.9 THA 87.17

ORBIT DETERMINATION ACCURACY

ST 203.5 SR 144.4 SS 554.4
 CRT -.2206 CRS -.1543 CST -.9141
 LSA 585.6 MSA 160.5 SSA 29.9
 EL1 208.0 EL2 137.8 ALF 163.88

LAUNCH DATE FEB 22 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 28.168 GAL -8.44 AZL 91.09 HCA 119.39 SMA 132.71 ECC .18580 INC 1.0874 V1 30.106
 RP 108.78 LAP -.95 LOP 272.59 VP 37.946 GAP -2.62 AZP 89.47 TAL 223.72 TAP 343.11 RCA 108.05 APO 157.36 V2 34.835
 RC 77.194 GL -5.98 GP 35.37 ZAL 152.96 ZAP 64.20 ETS 342.97 ZAE 143.59 ETE 68.42 ZAC 111.12 ETC 146.37 CLP -57.75

DISTANCE 261.603

PLANETOCENTRIC CONIC

C3 25.742 VHL 5.074 DLA -5.64 RAL 2.04 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 4.333 DPA 43.09 RAP 16.17 ECC 1.4236
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 19 2100.14 -16.64 34.36 226.28 113.25 2 40 20 1500.1 -13.35 27.23
 90.00 12 39 9 5095.27 24.52 226.00 229.32 75.37 14 4 4 4495.3 22.27 218.05
 100.00 3 24 0 1846.34 -17.75 15.19 225.76 114.45 3 54 46 1246.3 -14.30 8.09
 100.00 14 3 9 4824.31 25.69 205.72 228.97 74.17 15 23 33 4224.3 23.27 197.76
 110.00 4 26 8 1651.79 -20.71 358.88 224.23 117.82 4 53 40 1051.8 -16.82 351.91
 110.00 15 17 30 4591.62 28.84 186.94 227.85 70.80 16 34 2 3991.6 25.95 178.95

DIFFERENTIAL CORRECTIONS

TDE -.1676 TRA -.4040 TC3 .1402 BAU .3137
 RDE -.0004 RRA .3962 RC3 .9008 FAU .10845
 FDE -1.3794 FRA -1.0851 FC3-3.6472 BSP 3009
 BDE .1676 BRA .5659 BC3 .9117 FSP -1103

MID-COURSE EXECUTION ACCURACY

SGT 516.0 SGR 1018.7 SG3 362.9
 RRT -.1446 RRF -.9199 RTF .1536
 SGB 1141.9 R23 -.0238 R13 -.9199
 SG1 1022.3 SG2 508.7 THA 95.57

ORBIT DETERMINATION ACCURACY

ST 234.0 SR 137.6 SS 600.8
 CRT -.5694 CRS .2360 CST -.9192
 LSA 640.1 MSA 155.1 SSA 29.0
 EL1 250.0 EL2 105.9 ALF 157.16

LAUNCH DATE FEB 22 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 268.037

RL 148.00 LAL .00 LOL 153.20 VL 28.183 GAL -8.37 AZL 91.34 HCA 122.55 SMA 132.82 ECC .18437 INC 1.3361 V1 30.106
 RP 108.81 LAP -1.13 LOP 275.76 VP 37.950 GAP -2.11 AZP 89.28 TAL 223.81 TAP 346.36 RCA 108.33 APO 157.31 V2 34.827
 RC 79.493 GL -7.39 GP 37.52 ZAL 152.67 ZAP 68.86 ETS 345.73 ZAE 142.34 ETE 75.03 ZAC 108.53 ETC 147.27 CLP -62.95

PLANETOCENTRIC CONIC

C3 25.555 VHL 5.055 OLA -6.94 RAL 2.58 RAD 6568.0 VEL 12.122 PTH 2.17 VHP 4.259 DPA 44.10 RAP 12.71 ECC 1.4206
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 26 2057.17 -15.46 31.75 226.53 114.02 2 51 43 1457.2 -12.09 24.70
 90.00 12 31 20 5134.64 25.17 228.70 230.23 76.58 13 56 54 4534.6 23.07 220.66
 100.00 3 35 28 1805.45 -16.58 12.71 225.99 115.23 4 5 33 1205.4 -13.04 5.71
 100.00 13 55 59 4861.59 26.36 208.29 229.90 75.37 15 17 1 4261.6 24.09 200.23
 110.00 4 36 8 1615.51 -19.54 356.72 224.41 118.62 5 3 3 1015.5 -15.57 349.85
 110.00 15 11 48 4624.30 29.55 189.22 228.84 71.98 16 28 53 4024.3 26.80 181.11

DIFFERENTIAL CORRECTIONS

TOE -.2008 TRA -.4449 TC3 .0290 BAU .3377
 RDE .0567 RRA .4059 RC3 .9882 FAU .11137
 FDE -1.5154 FRA -1.0822 FC3 -3.7729 BSP 3333
 BOE .2087 BRA .6022 BC3 .9886 FSP -1160

MID-COURSE EXECUTION ACCURACY

SGT 557.4 SGR 1103.2 SG3 376.9
 RRT -.3591 RRF -.9339 RTF .3730
 SGB 1236.0 R23 .0568 R13 -.9330
 SG1 1126.0 SG2 509.7 THA 102.99

ORBIT DETERMINATION ACCURACY

ST 273.9 SR 156.1 SS 647.9
 CRT -.8370 CRS .6015 CST -.9275
 LSA 704.3 MSA 149.4 SSA 28.0
 EL1 305.9 EL2 76.5 ALF 152.65

LAUNCH DATE FEB 22 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 274.439

RL 148.00 LAL .00 LOL 153.20 VL 28.191 GAL -8.31 AZL 91.60 HCA 125.71 SMA 132.88 ECC .18312 INC 1.6027 V1 30.106
 RP 108.83 LAP -1.30 LOP 278.92 VP 37.949 GAP -1.62 AZP 89.06 TAL 223.77 TAP 349.48 RCA 108.55 APO 157.22 V2 34.820
 RC 81.813 GL -8.91 GP 39.66 ZAL 152.19 ZAP 73.46 ETS 348.72 ZAE 140.77 ETE 81.53 ZAC 105.90 ETC 148.36 CLP -68.30

PLANETOCENTRIC CONIC

C3 25.406 VHL 5.040 OLA -8.30 RAL 3.25 RAD 6568.0 VEL 12.115 PTH 2.17 VHP 4.220 DPA 45.01 RAP 9.09 ECC 1.4181
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 43 2012.15 -14.20 29.05 226.97 114.76 3 4 15 1412.1 -10.74 22.08
 90.00 12 23 24 5176.78 25.80 231.63 231.34 77.91 13 49 41 4576.8 23.88 223.49
 100.00 3 48 3 1762.70 -15.32 10.16 226.42 115.99 4 17 25 1162.7 -11.70 3.24
 100.00 13 48 46 4901.46 27.01 211.07 231.04 76.69 15 10 27 4301.5 24.91 202.90
 110.00 4 47 7 1577.72 -18.29 354.50 224.79 119.39 5 13 25 977.7 -14.24 347.73
 110.00 15 6 11 4659.21 30.26 191.69 230.04 73.28 16 23 50 4059.2 27.67 183.45

DIFFERENTIAL CORRECTIONS

TOE -.2459 TRA -.4899 TC3 -.0982 BAU .3647
 RDE .1168 RRA .4088 RC3 1.0692 FAU .11245
 FDE -1.6348 FRA -1.0484 FC3 -3.8318 BSP 3681
 BOE .2722 BRA .6381 BC3 1.0737 FSP -1190

MID-COURSE EXECUTION ACCURACY

SGT 636.1 SGR 1183.1 SG3 384.7
 RRT -.5422 RRF -.9445 RTF .5577
 SGB 1343.3 R23 .0830 R13 -.9424
 SG1 1243.3 SG2 508.6 THA 109.68

ORBIT DETERMINATION ACCURACY

ST 326.6 SR 196.2 SS 691.5
 CRT -.9516 CRS .8095 CST -.9377
 LSA 775.9 MSA 143.8 SSA 26.8
 EL1 377.4 EL2 52.2 ALF 149.60

LAUNCH DATE FEB 22 1969

FLIGHT TIME 98.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 280.809

RL 148.00 LAL .00 LOL 153.20 VL 28.193 GAL -8.23 AZL 91.89 HCA 128.87 SMA 132.90 ECC .18201 INC 1.8914 V1 30.106
 RP 108.85 LAP -1.47 LOP 282.08 VP 37.945 GAP -1.15 AZP 88.81 TAL 223.62 TAP 352.49 RCA 108.71 APO 157.09 V2 34.813
 RC 84.153 GL -10.55 GP 41.77 ZAL 151.52 ZAP 77.96 ETS 351.95 ZAE 138.87 ETE 87.78 ZAC 103.28 ETC 149.61 CLP -73.76

PLANETOCENTRIC CONIC

C3 25.304 VHL 5.030 OLA -9.74 RAL 4.07 RAD 6568.0 VEL 12.111 PTH 2.17 VHP 4.217 DPA 45.83 RAP 5.38 ECC 1.4164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 26 1964.40 -12.82 26.23 227.63 115.47 3 18 10 1364.4 -9.29 19.33
 90.00 12 15 11 5222.55 26.42 234.84 232.68 79.41 13 42 14 4622.5 24.69 226.60
 100.00 4 1 58 1717.46 -13.95 7.50 227.06 116.71 4 30 36 1117.5 -10.26 .66
 100.00 13 41 20 4944.72 27.66 214.13 232.41 78.18 15 3 44 4344.7 25.75 205.85
 110.00 4 59 18 1537.93 -16.95 352.20 225.38 120.14 5 24 56 937.9 -12.82 345.52
 110.00 15 0 29 4697.02 30.97 194.41 231.49 74.74 16 18 46 4097.0 28.56 186.03

DIFFERENTIAL CORRECTIONS

TOE -.3030 TRA -.5364 TC3 -.2373 BAU .3947
 RDE .1807 RRA .4047 RC3 1.1425 FAU .11181
 FDE -1.7390 FRA -.9890 FC3 -3.8252 BSP 4077
 BOE .3528 BRA .6719 BC3 1.1669 FSP -1202

MID-COURSE EXECUTION ACCURACY

SGT 748.6 SGR 1257.9 SG3 386.8
 RRT -.6748 RRF -.9529 RTF .6896
 SGB 1463.8 R23 .1034 R13 -.9494
 SG1 1373.6 SG2 505.9 THA 115.60

ORBIT DETERMINATION ACCURACY

ST 392.1 SR 251.5 SS 733.6
 CRT -.9875 CRS .9081 CST -.9477
 LSA 857.5 MSA 138.8 SSA 25.4
 EL1 464.6 EL2 33.4 ALF 147.46

LAUNCH DATE FEB 22 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 287.149

RL 148.00 LAL .00 LOL 153.20 VL 28.190 GAL -8.15 AZL 92.21 HCA 132.02 SMA 132.87 ECC .18103 INC 2.2067 V1 30.106
 RP 108.87 LAP -1.64 LOP 285.25 VP 37.937 GAP -.71 AZP 88.52 TAL 223.36 TAP 355.39 RCA 108.82 APO 156.93 V2 34.807
 RC 86.508 GL -12.34 GP 43.84 ZAL 150.63 ZAP 82.27 ETS 355.39 ZAE 136.69 ETE 93.66 ZAC 100.73 ETC 150.97 CLP -79.26

PLANETOCENTRIC CONIC

C3 25.262 VHL 5.026 OLA -11.29 RAL 5.03 RAD 6568.0 VEL 12.109 PTH 2.17 VHP 4.251 DPA 46.58 RAP 1.65 ECC 1.4158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 52 1913.07 -11.30 23.23 228.53 116.14 3 33 45 1313.1 -7.69 16.40
 90.00 12 6 27 5273.05 27.00 238.42 234.28 81.11 13 34 20 4673.1 25.49 230.08
 100.00 4 17 32 1668.98 -12.45 4.68 227.94 117.40 4 45 21 1069.0 -8.68 357.92
 100.00 13 33 28 4992.38 28.27 217.54 234.04 79.87 14 56 41 4392.4 26.58 209.14
 110.00 5 12 54 1495.57 -15.49 349.78 226.20 120.86 5 37 50 895.6 -11.28 343.21
 110.00 14 54 35 4738.56 31.67 197.44 233.22 76.41 16 13 34 4138.6 29.48 188.92

DIFFERENTIAL CORRECTIONS

TOE -.3733 TRA -.5820 TC3 -.3847 BAU .4276
 RDE .2491 RRA .3937 RC3 1.2061 FAU .10955
 FDE -1.8278 FRA -.9092 FC3 -3.7544 BSP 4533
 BOE .4488 BRA .7026 BC3 1.2660 FSP -1202

MID-COURSE EXECUTION ACCURACY

SGT 887.8 SGR 1326.7 SG3 383.5
 RRT -.7635 RRF -.9597 RTF .7767
 SGB 1596.3 R23 .1190 R13 -.9547
 SG1 1515.3 SG2 502.0 THA 120.81

ORBIT DETERMINATION ACCURACY

ST 471.6 SR 317.5 SS 775.1
 CRT -.9959 CRS .9540 CST -.9567
 LSA 951.5 MSA 134.6 SSA 23.8
 EL1 568.0 EL2 23.8 ALF 146.09

LAUNCH DATE FEB 22 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 293.459

RL 148.00 LAL .00 LOL 153.20 VL 28.181 GAL -8.05 AZL 92.55 MCA 135.18 SMA 132.81 ECC .18016 INC 2.5549 V1 30.106
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.925 GAP -28 AZP 88.19 TAL 223.00 TAP 358.18 RCA 108.88 APO 156.73 V2 34.802
 RC 88.877 GL -14.32 GP 45.87 ZAL 149.52 ZAP 86.34 ETS 359.04 ZAE 134.28 ETE 99.10 ZAC 98.26 ETC 152.40 CLP -84.74

PLANETOCENTRIC CONIC

C3 25.299 VHL 5.030 DLA -12.96 RAL 6.16 RAD 6568.0 VEL 12.111 PTH 2.17 VHP 4.321 DPA 47.29 RAP 357.96 ECC 1.4164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 28 1857.10 -9.60 19.99 229.73 116.77 3 51 25 1257.1 -5.93 13.23
 90.00 11 56 52 5329.74 27.53 242.48 236.18 83.08 13 25 42 4729.7 26.28 234.04
 100.00 4 35 6 1616.33 -10.78 1.66 229.10 118.05 5 2 2 1016.3 -6.95 354.97
 100.00 13 24 55 5045.74 28.85 221.40 235.98 81.82 14 49 1 4445.7 27.42 212.89
 110.00 5 28 13 1449.95 -13.88 347.23 227.29 121.56 5 52 23 850.0 -9.60 340.74
 110.00 14 48 17 4784.88 32.36 200.88 235.27 78.34 16 8 2 4184.9 30.42 192.20

DIFFERENTIAL CORRECTIONS

TOE -.4590 TRA -.6249 TC3 -.5372 BAU .4612
 RDE .3192 RRA .3726 RC3 1.2532 FAU .10540
 FDE -1.8913 FRA -.8043 FC3 -3.6070 BSP 4990
 BDE .5591 BRA .7275 BC3 1.3635 FSP -1174

MID-COURSE EXECUTION ACCURACY

SGT 1048.3 SGR 1382.4 SG3 373.5
 RRT -.8208 RRF -.9649 RTF .8327
 SGB 1734.9 R23 .1326 R13 -.9584
 SG1 1661.9 SG2 498.1 THA 125.58

ORBIT DETERMINATION ACCURACY

ST 567.1 SR 388.2 SS 812.3
 CRT -.9963 CRS .9760 CST -.9645
 LSA 1055.6 MSA 131.7 SSA 21.9
 EL1 686.7 EL2 27.6 ALF 145.64

LAUNCH DATE FEB 22 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 299.739

RL 148.00 LAL .00 LOL 153.20 VL 28.168 GAL -7.96 AZL 92.94 MCA 138.33 SMA 132.71 ECC .17938 INC 2.9439 V1 30.106
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.911 GAP .13 AZP 87.80 TAL 222.54 TAP .87 RCA 108.90 APO 156.51 V2 34.797
 RC 91.256 GL -16.50 GP 47.89 ZAL 148.15 ZAP 90.11 ETS 2.88 ZAE 131.67 ETE 104.08 ZAC 95.92 ETC 153.86 CLP -90.16

PLANETOCENTRIC CONIC

C3 25.442 VHL 5.044 DLA -14.78 RAL 7.48 RAD 6568.0 VEL 12.117 PTH 2.17 VHP 4.431 DPA 48.01 RAP 354.34 ECC 1.4187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 49 1795.05 -7.68 16.44 231.27 117.34 4 11 44 1195.1 -3.95 9.74
 90.00 11 46 1 5394.57 27.97 247.18 238.43 85.40 13 15 56 4794.6 27.04 238.63
 100.00 4 55 12 1558.29 -8.91 358.38 230.61 118.65 5 21 10 958.3 -5.01 351.75
 100.00 13 15 20 5106.56 29.36 225.85 238.28 84.11 14 40 26 4506.6 28.23 217.22
 110.00 5 45 39 1400.25 -12.09 344.49 228.71 122.22 6 8 59 800.3 -7.75 338.08
 110.00 14 41 22 4837.37 33.02 204.83 237.71 80.59 16 1 59 4237.4 31.36 196.00

DIFFERENTIAL CORRECTIONS

TOE -.5616 TRA -.6622 TC3 -.6891 BAU .4958
 RDE .3939 RRA .3431 RC3 1.2845 FAU .09989
 FDE -1.9380 FRA -.6865 FC3 -3.3990 BSP 5492
 BDE .6860 BRA .7458 BC3 1.4576 FSP -1136

MID-COURSE EXECUTION ACCURACY

SGT 1222.9 SGR 1428.9 SG3 358.9
 RRT -.8583 RRF -.9693 RTF .8692
 SGB 1880.7 R23 .1439 R13 -.9613
 SG1 1814.7 SG2 494.1 THA 129.84

ORBIT DETERMINATION ACCURACY

ST 679.6 SR 465.2 SS 848.8
 CRT -.9948 CRS .9875 CST -.9710
 LSA 1175.3 MSA 130.2 SSA 19.7
 EL1 822.6 EL2 39.0 ALF 145.66

LAUNCH DATE FEB 22 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 305.991

RL 148.00 LAL .00 LOL 153.20 VL 28.150 GAL -7.85 AZL 93.38 MCA 141.48 SMA 132.57 ECC .17868 INC 3.3841 V1 30.106
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.894 GAP .53 AZP 87.35 TAL 221.99 TAP 3.47 RCA 108.89 APO 156.26 V2 34.793
 RC 93.644 GL -18.94 GP 49.93 ZAL 146.49 ZAP 93.52 ETS 6.90 ZAE 128.91 ETE 108.60 ZAC 93.72 ETC 155.33 CLP -95.47

PLANETOCENTRIC CONIC

C3 25.733 VHL 5.073 DLA -16.78 RAL 9.01 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 4.583 DPA 48.77 RAP 350.79 ECC 1.4235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 45 1724.92 -5.47 12.48 233.26 117.83 4 35 30 1124.9 -1.70 5.82
 90.00 11 33 17 5470.33 28.26 252.70 241.07 88.15 13 4 27 4870.3 27.71 244.08
 100.00 5 18 33 1493.23 -6.77 354.74 232.55 119.19 5 43 26 893.2 -2.82 348.17
 100.00 13 4 10 5177.25 29.74 231.07 241.00 86.83 14 30 27 4577.3 28.98 222.34
 110.00 6 5 44 1345.42 10.08 341.51 230.54 122.84 6 28 9 745.4 -5.68 335.18
 110.00 14 33 29 4897.83 33.59 209.45 240.61 83.27 15 55 6 4297.8 32.30 200.46

DIFFERENTIAL CORRECTIONS

TOE -.6841 TRA -.6913 TC3 -.8346 BAU .5299
 RDE .4717 RRA .3030 RC3 1.2944 FAU .09300
 FDE -1.9621 FRA -.5551 FC3 -3.1286 BSP 5987
 BDE .8310 BRA .7548 BC3 1.5401 FSP -1077

MID-COURSE EXECUTION ACCURACY

SGT 1406.8 SGR 1461.6 SG3 339.2
 RRT -.8828 RRF -.9729 RTF .8933
 SGB 2028.6 R23 .1547 R13 -.9634
 SG1 1968.4 SG2 490.8 THA 133.76

ORBIT DETERMINATION ACCURACY

ST 810.9 SR 544.9 SS 881.8
 CRT -.9933 CRS .9935 CST -.9763
 LSA 1309.5 MSA 130.1 SSA 17.4
 EL1 975.6 EL2 52.2 ALF 146.17

LAUNCH DATE FEB 22 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 312.214

RL 148.00 LAL .00 LOL 153.20 VL 28.129 GAL -7.73 AZL 93.89 MCA 144.63 SMA 132.41 ECC .17805 INC 3.8895 V1 30.106
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.875 GAP .90 AZP 86.83 TAL 221.35 TAP 5.98 RCA 108.84 APO 155.99 V2 34.789
 RC 96.038 GL -21.66 GP 52.04 ZAL 144.52 ZAP 96.52 ETS 11.08 ZAE 126.01 ETE 112.67 ZAC 91.65 ETC 156.78 CLP -100.63

PLANETOCENTRIC CONIC

C3 26.235 VHL 5.122 DLA -19.00 RAL 10.78 RAD 6568.1 VEL 12.150 PTH 2.18 VHP 4.784 DPA 49.63 RAP 347.28 ECC 1.4318
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 36 35 1643.57 -2.86 7.92 235.84 118.18 5 3 58 1043.6 .93 1.29
 90.00 11 17 38 5561.23 28.28 259.35 244.18 91.48 12 50 19 4961.2 28.19 250.68
 100.00 5 46 15 1418.72 -4.27 350.61 235.06 119.61 6 9 54 818.7 -3.30 344.08
 100.00 12 50 38 5261.32 29.89 237.31 244.20 90.11 14 18 19 4661.3 29.59 228.52
 110.00 6 29 14 1284.08 -7.80 338.23 232.89 123.39 6 50 38 684.1 -3.35 331.96
 110.00 14 24 9 4968.72 34.02 214.94 244.06 86.49 15 46 58 4368.7 33.16 205.81

DIFFERENTIAL CORRECTIONS

TOE -.8304 TRA -.7091 TC3 -.9665 BAU .5632
 RDE .5551 RRA .2534 RC3 1.2825 FAU .08517
 FDE -1.9696 FRA -.4201 FC3 -2.8104 BSP 6505
 BDE .9989 BRA .7530 BC3 1.6059 FSP -1009

MID-COURSE EXECUTION ACCURACY

SGT 1595.9 SGR 1483.7 SG3 316.2
 RRT -.8991 RRF -.9761 RTF .9100
 SGB 2179.1 R23 .1643 R13 -.9650
 SG1 2123.7 SG2 488.0 THA 137.32

ORBIT DETERMINATION ACCURACY

ST 962.9 SR 628.6 SS 913.4
 CRT -.9922 CRS .9968 CST -.9806
 LSA 1462.6 MSA 131.4 SSA 15.0
 EL1 1148.0 EL2 65.6 ALF 146.94

LAUNCH DATE FEB 22 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 318.410

RL 148.00 LAL .00 LOL 153.20 VL 28.103 GAL -7.61 AZL 94.48 MCA 147.77 SMA 132.23 ECC .17749 INC 4.4797 V1 30.106
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.854 GAP 1.26 AZP 86.21 TAL 220.63 TAP 8.41 RCA 108.76 APO 155.70 V2 34.787
 RC 98.436 GL -24.73 GP 54.25 ZAL 142.17 ZAP 99.07 ETS 15.44 ZAE 122.97 ETE 116.35 ZAC 89.70 ETC 158.21 CLP-105.65

PLANETOCENTRIC CONIC

C3 27.040 VHL 5.200 OLA -21.49 RAL 12.86 RAD 6568.1 VEL 12.183 PTH 2.19 VHP 5.041 DPA 50.63 RAP 343.74 ECC 1.4450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 34 1545.39 .30 2.44 239.22 118.32 5 39 19 945.4 4.09 355.80
 90.00 10 57 11 5674.42 27.81 267.59 247.77 95.59 12 31 45 5074.4 28.29 258.96
 100.00 6 20 5 1330.69 -1.30 345.77 238.33 119.87 6 42 16 730.7 2.68 339.24
 100.00 12 33 20 5364.35 29.63 244.96 247.94 94.13 14 2 45 4764.3 29.89 236.16
 110.00 6 57 14 1214.25 -5.17 334.53 235.93 123.84 7 17 28 614.3 -.69 328.31
 110.00 14 12 41 5053.55 34.18 221.56 248.15 90.40 15 36 54 4453.6 33.86 212.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0062 TRA -.7115 TC3-1.0761 BAU .5941 SGT 1786.5 SGR 1490.7 SG3 289.6 ST 1137.6 SR 712.8 SS 940.7
 RDE .6430 RRA .1912 RC3 1.2421 FAU .07642 RRT -.9095 RRF -.9787 RTF .9215 CRT -.9915 CRS .9986 CST -.9842
 FDE-1.9569 FRA -.2805 FC3-2.4466 BSP 6994 SGB 2326.7 R23 .1740 R13 -.9661 LSA 1633.7 MSA 134.0 SSA 12.7
 BOE 1.1941 BRA .7368 BC3 1.6434 FSP -.925 SG1 2275.3 SG2 486.6 THA 140.66 EL1 1340.2 EL2 79.0 ALF 148.03

LAUNCH DATE FEB 22 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 324.579

RL 148.00 LAL .00 LOL 153.20 VL 28.075 GAL -7.48 AZL 95.18 MCA 150.92 SMA 132.02 ECC .17699 INC 5.1824 V1 30.106
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.831 GAP 1.61 AZP 85.47 TAL 219.84 TAP 10.76 RCA 108.65 APO 155.39 V2 34.785
 RC 100.837 GL -28.21 GP 56.65 ZAL 139.39 ZAP 101.12 ETS 20.00 ZAE 119.78 ETE 119.72 ZAC 87.84 ETC 159.67 CLP-110.54

PLANETOCENTRIC CONIC

C3 28.300 VHL 5.320 OLA -24.26 RAL 15.29 RAD 6568.1 VEL 12.234 PTH 2.20 VHP 5.369 DPA 51.80 RAP 340.05 ECC 1.4657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 2 33 1417.43 4.42 355.29 243.82 118.00 6 26 10 817.4 8.13 348.57
 90.00 10 27 37 5825.05 26.34 278.36 251.76 100.79 12 4 42 5225.0 27.56 269.91
 100.00 7 3 24 1220.99 2.42 339.75 242.71 119.80 7 23 45 621.0 6.37 333.19
 100.00 12 9 27 5496.72 28.59 254.65 252.20 99.12 13 41 4 4896.7 29.55 245.98
 110.00 7 31 31 1132.79 -2.06 330.27 239.91 124.13 7 50 24 532.8 2.43 324.06
 110.00 13 57 49 5157.68 33.83 229.67 252.97 95.19 15 23 47 4557.7 34.18 220.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2216 TRA -.6954 TC3-1.1554 BAU .6233 SGT 1979.2 SGR 1488.5 SG3 261.5 ST 1339.1 SR 798.9 SS 966.3
 RDE .7399 RRA .1183 RC3 1.1744 FAU .06732 RRT -.9162 RRF -.9811 RTF .9306 CRT -.9910 CRS .9995 CST -.9872
 FDE-1.9323 FRA -.1479 FC3-2.0596 BSP 7521 SGB 2476.5 R23 .1820 R13 -.9673 LSA 1829.2 MSA 137.3 SSA 10.5
 BOE 1.4282 BRA .7054 BC3 1.6475 FSP -.840 SG1 2428.3 SG2 486.1 THA 143.75 EL1 1556.6 EL2 91.8 ALF 149.29

LAUNCH DATE FEB 22 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 330.720

RL 148.00 LAL .00 LOL 153.20 VL 28.044 GAL -7.33 AZL 96.04 MCA 154.05 SMA 131.79 ECC .17654 INC 6.0387 V1 30.106
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.807 GAP 1.94 AZP 84.57 TAL 218.97 TAP 13.02 RCA 108.52 APO 155.06 V2 34.784
 RC 103.240 GL -32.14 GP 59.29 ZAL 136.14 ZAP 102.64 ETS 24.83 ZAE 116.42 ETE 122.90 ZAC 86.02 ETC 161.22 CLP-115.38

PLANETOCENTRIC CONIC

C3 30.256 VHL 5.501 OLA -27.37 RAL 18.18 RAD 6568.2 VEL 12.314 PTH 2.22 VHP 5.790 DPA 53.14 RAP 336.04 ECC 1.4979
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 22 16 1203.75 11.08 343.12 250.74 116.23 7 42 20 603.7 14.52 336.13
 90.00 9 30 57 784.15 22.09 317.29 255.42 108.17 9 44 1 184.1 24.37 309.37
 100.00 8 5 6 1065.36 7.63 331.13 248.91 118.99 8 22 51 465.4 11.44 324.42
 100.00 11 30 48 5685.81 25.82 268.01 256.66 105.62 13 5 34 5085.8 27.71 259.72
 110.00 8 15 15 1033.48 1.73 325.09 245.28 124.14 8 32 28 433.5 6.20 318.85
 110.00 13 37 8 5290.45 32.55 239.81 258.49 101.06 15 5 19 4690.4 33.73 230.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4888 TRA -.6518 TC3-1.1907 BAU .6474 SGT 2169.2 SGR 1468.2 SG3 231.5 ST 1568.1 SR 878.1 SS 985.3
 RDE .8423 RRA .0285 RC3 1.0697 FAU .05776 RRT -.9192 RRF -.9829 RTF .9377 CRT -.9907 CRS .9999 CST -.9897
 FDE-1.8899 FRA -.0180 FC3-1.6527 BSP 7982 SGB 2619.3 R23 .1896 R13 -.9684 LSA 2044.7 MSA 141.5 SSA 8.5
 BOE 1.7105 BRA .6525 BC3 1.6006 FSP -.741 SG1 2573.6 SG2 487.2 THA 146.76 EL1 1794.2 EL2 104.2 ALF 150.87

LAUNCH DATE FEB 22 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 336.832

RL 148.00 LAL .00 LOL 153.20 VL 28.011 GAL -7.18 AZL 97.11 MCA 157.18 SMA 131.55 ECC .17615 INC 7.1121 V1 30.106
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.782 GAP 2.26 AZP 83.44 TAL 218.04 TAP 15.22 RCA 108.37 APO 154.72 V2 34.783
 RC 105.643 GL -36.58 GP 62.25 ZAL 132.33 ZAP 103.59 ETS 30.02 ZAE 112.82 ETE 126.07 ZAC 84.18 ETC 163.00 CLP-120.30

PLANETOCENTRIC CONIC

C3 33.337 VHL 5.774 OLA -30.81 RAL 21.65 RAD 6568.3 VEL 12.438 PTH 2.25 VHP 6.341 DPA 54.65 RAP 331.48 ECC 1.5486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.33 6 59 11 1343.98 17.74 356.76 259.19 115.61 7 21 35 744.0 21.04 349.45
 102.67 10 21 41 692.70 17.75 308.73 259.19 115.60 10 33 14 92.7 21.05 301.42
 77.33 6 59 11 1343.98 17.74 356.76 259.19 115.61 7 21 35 744.0 21.04 349.45
 102.67 10 21 41 692.70 17.75 308.73 259.19 115.60 10 33 14 92.7 21.05 301.42
 110.00 9 15 57 898.91 6.84 318.02 252.87 123.57 9 30 56 298.9 11.21 311.65
 110.00 13 4 6 5473.81 29.37 253.14 264.29 108.33 14 35 20 4873.8 31.59 244.63

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8330 TRA -.5736 TC3-1.1732 BAU .6672 SGT 2362.9 SGR 1432.6 SG3 201.4 ST 1830.3 SR 945.2 SS 999.7
 RDE .9516 RRA -.0772 RC3 .9297 FAU .04827 RRT -.9197 RRF -.9841 RTF .9446 CRT -.9905 CRS .9999 CST -.9919
 FDE-1.8379 FRA .0984 FC3-1.2535 BSP 8491 SGB 2763.3 R23 .1938 R13 -.9700 LSA 2285.1 MSA 145.4 SSA 6.7
 BOE 2.0653 BRA .5788 BC3 1.4969 FSP -.646 SG1 2719.7 SG2 488.8 THA 149.78 EL1 2056.7 EL2 115.4 ALF 152.81

LAUNCH DATE FEB 22 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 342.914

RL 148.00 LAL .00 LOL 153.20 VL 27.975 GAL -7.02 AZL 98.51 HCA 160.30 SMA 131.28 ECC .17579 INC 8.5055 V1 30.106
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.755 GAP 2.57 AZP 81.99 TAL 217.03 TAP 17.33 RCA 108.21 APO 154.36 V2 34.783
 RC 108.045 GL -41.55 GP 65.61 ZAL 127.92 ZAP 103.91 ETS 35.82 ZAE 108.91 ETE 129.54 ZAC 82.22 ETC 165.31 CLP-125.60

PLANETOCENTRIC CONIC

C3 38.331 VHL 6.191 DLA -34.55 RAL 25.86 RAD 6568.5 VEL 12.637 PTH 2.29 VHP 7.083 DPA 56.26 RAP 326.02 ECC 1.6308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.32 6 23 34 1542.08 18.54 12.38 266.70 119.69 6 49 16 942.1 22.35 5.28
 110.68 11 30 58 5853.15 18.56 277.31 266.71 119.68 13 8 31 5253.1 22.36 270.22
 69.32 6 23 34 1542.08 18.54 12.38 266.70 119.69 6 49 16 942.1 22.35 5.28
 110.68 11 30 58 5853.15 18.56 277.31 266.71 119.68 13 8 31 5253.1 22.36 270.22
 69.32 6 23 34 1542.08 18.54 12.38 266.70 119.69 6 49 16 942.1 22.35 5.28
 110.68 11 30 58 5853.15 18.56 277.31 266.71 119.68 13 8 31 5253.1 22.36 270.22

DIFFERENTIAL CORRECTIONS

TOE-2.2887 TRA -4.401 TC3-1.0885 BAU .6770
 RDE 1.0520 RRA -.2065 RC3 .7486 FAU .03881
 FDE-1.7720 FRA .2052 FC3 -.8764 BSP 8941
 BDE 2.5189 BRA .4862 BC3 1.3211 FSP -546

MID-COURSE EXECUTION ACCURACY

SGT 2558.8 SGR 1364.2 SG3 171.1
 RRT -.9158 RRF -.9834 RTF .9518
 SGB 2899.7 R23 .1946 R13 -.9723
 SG1 2857.9 SG2 490.5 THA 153.12

ORBIT DETERMINATION ACCURACY

ST 2123.6 SR 976.5 SS 1004.6
 CRT -.9900 CRS .9995 CST -.9937
 LSA 2539.7 MSA 149.0 SSA 5.2
 EL1 2334.0 EL2 125.4 ALF 155.45

LAUNCH DATE FEB 22 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 348.960

RL 148.00 LAL .00 LOL 153.20 VL 27.937 GAL -6.85 AZL 100.40 HCA 163.41 SMA 131.01 ECC .17546 INC10.3981 V1 30.106
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.728 GAP 2.86 AZP 80.03 TAL 215.96 TAP 19.37 RCA 108.02 APO 154.00 V2 34.784
 RC 110.446 GL -47.01 GP 69.46 ZAL 122.90 ZAP 103.56 ETS 42.75 ZAE 104.57 ETE 133.94 ZAC 80.01 ETC 168.73 CLP-131.93

PLANETOCENTRIC CONIC

C3 46.836 VHL 6.844 DLA -38.48 RAL 31.06 RAD 6568.8 VEL 12.969 PTH 2.36 VHP 8.124 DPA 57.84 RAP 319.19 ECC 1.7708
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.78 6 9 11 1696.61 18.50 24.78 276.14 124.36 6 37 28 1096.6 22.88 18.03
 117.22 12 26 48 5799.61 18.52 272.99 276.15 124.35 14 3 28 5199.6 22.89 266.24
 62.78 6 9 11 1696.61 18.50 24.78 276.14 124.36 6 37 28 1096.6 22.88 18.03
 117.22 12 26 48 5799.61 18.52 272.99 276.15 124.35 14 3 28 5199.6 22.89 266.24
 62.78 6 9 11 1696.61 18.50 24.78 276.14 124.36 6 37 28 1096.6 22.88 18.03
 117.22 12 26 48 5799.61 18.52 272.99 276.15 124.35 14 3 28 5199.6 22.89 266.24

DIFFERENTIAL CORRECTIONS

TOE-2.9218 TRA -.2196 TC3 -.9320 BAU .6727
 RDE 1.1051 RRA -.3583 RC3 .5344 FAU .02977
 FDE-1.7003 FRA .2979 FC3 -.5502 BSP 9411
 BDE 3.1238 BRA .4202 BC3 1.0743 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 2768.7 SGR 1240.1 SG3 141.8
 RRT -.9047 RRF -.9775 RTF .9610
 SGB 3033.8 R23 .1877 R13 -.9760
 SG1 2994.2 SG2 488.6 THA 157.30

ORBIT DETERMINATION ACCURACY

ST 2447.4 SR 932.6 SS 1001.6
 CRT -.9884 CRS .9984 CST -.9954
 LSA 2800.0 MSA 150.7 SSA 4.0
 EL1 2615.7 EL2 132.6 ALF 159.31

LAUNCH DATE FEB 22 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 354.962

RL 148.00 LAL .00 LOL 153.20 VL 27.897 GAL -6.66 AZL 103.13 HCA 166.49 SMA 130.72 ECC .17515 INC13.1297 V1 30.106
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.700 GAP 3.13 AZP 77.22 TAL 214.81 TAP 21.30 RCA 107.83 APO 153.62 V2 34.786
 RC 112.844 GL -52.79 GP 73.82 ZAL 117.28 ZAP 102.52 ETS 52.14 ZAE 99.60 ETE 140.71 ZAC 77.35 ETC 174.73 CLP-141.06

PLANETOCENTRIC CONIC

C3 62.461 VHL 7.903 DLA -42.28 RAL 37.50 RAD 6569.2 VEL 13.558 PTH 2.48 VHP 9.672 DPA 59.05 RAP 310.41 ECC 2.0279
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.19 6 9 34 1838.74 17.05 35.73 287.78 129.30 6 40 12 1238.7 22.00 29.48
 122.81 13 17 48 5799.59 17.06 271.84 287.79 129.29 14 54 28 5199.6 22.01 265.58
 57.19 6 9 34 1838.74 17.05 35.73 287.78 129.30 6 40 12 1238.7 22.00 29.48
 122.81 13 17 48 5799.59 17.06 271.84 287.79 129.29 14 54 28 5199.6 22.01 265.58
 57.19 6 9 34 1838.74 17.05 35.73 287.78 129.30 6 40 12 1238.7 22.00 29.48
 122.81 13 17 48 5799.59 17.06 271.84 287.79 129.29 14 54 28 5199.6 22.01 265.58

DIFFERENTIAL CORRECTIONS

TOE-3.8397 TRA .1657 TC3 -.7032 BAU .6382
 RDE -.9580 RRA -.5187 RC3 .2993 FAU .02115
 FDE-1.6282 FRA .3843 FC3 -.2932 BSP 9821
 BDE 3.9574 BRA .5446 BC3 .7642 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 3001.7 SGR 982.1 SG3 114.3
 RRT -.8621 RRF -.9471 RTF .9726
 SGB 3158.3 R23 .1710 R13 -.9812
 SG1 3121.9 SG2 478.4 THA 163.86

ORBIT DETERMINATION ACCURACY

ST 2784.3 SR 711.2 SS 991.0
 CRT -.9803 CRS .9927 CST -.9970
 LSA 3036.1 MSA 149.6 SSA 3.0
 EL1 2870.4 EL2 136.2 ALF 165.91

LAUNCH DATE FEB 22 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 360.897

RL 148.00 LAL .00 LOL 153.20 VL 27.856 GAL -6.46 AZL 107.42 HCA 169.53 SMA 130.43 ECC .17480 INC17.4228 V1 30.106
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.672 GAP 3.38 AZP 72.85 TAL 213.58 TAP 23.11 RCA 107.63 APO 153.23 V2 34.789
 RC 115.239 GL -58.39 GP 78.46 ZAL 111.19 ZAP 100.76 ETS 68.02 ZAE 93.64 ETE 154.01 ZAC 73.86 ETC 187.48 CLP-158.89

PLANETOCENTRIC CONIC

C3 94.709 VHL 9.732 DLA -45.35 RAL 45.36 RAD 6569.8 VEL 14.699 PTH 2.66 VHP 12.171 DPA 59.27 RAP 299.13 ECC 2.5587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.97 6 24 16 1979.06 13.60 45.20 301.52 133.69 6 57 15 1379.1 19.04 39.51
 127.03 14 5 49 5851.38 13.61 273.33 301.54 133.69 15 43 20 5251.4 19.05 267.64
 52.97 6 24 16 1979.06 13.60 45.20 301.52 133.69 6 57 15 1379.1 19.04 39.51
 127.03 14 5 49 5851.38 13.61 273.33 301.54 133.69 15 43 20 5251.4 19.05 267.64
 52.97 6 24 16 1979.06 13.60 45.20 301.52 133.69 6 57 15 1379.1 19.04 39.51
 127.03 14 5 49 5851.38 13.61 273.33 301.54 133.69 15 43 20 5251.4 19.05 267.64

DIFFERENTIAL CORRECTIONS

TOE-5.1671 TRA .8881 TC3 -.4170 BAU .5382
 RDE .0002 RRA -.5409 RC3 .0823 FAU .01297
 FDE-1.5817 FRA .4777 FC3 -.1186 BSP 10207
 BDE 5.1671 BRA 1.0398 BC3 .4251 FSP -283

MID-COURSE EXECUTION ACCURACY

SGT 3235.3 SGR 480.6 SG3 89.8
 RRT -.3006 RRF -.4371 RTF .9866
 SGB 3270.8 R23 .1410 R13 -.9875
 SG1 3238.5 SG2 457.9 THA 177.39

ORBIT DETERMINATION ACCURACY

ST 3050.4 SR 136.0 SS 987.4
 CRT -.0741 CRS .1287 CST -.9985
 LSA 3205.8 MSA 145.1 SSA 2.3
 EL1 3050.4 EL2 135.6 ALF 179.81

LAUNCH DATE FEB 22 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 366.708

RL 148.00 LAL .00 LOL 153.20 VL 27.813 GAL -6.22 AZL 115.08 HCA 172.46 SMA 130.13 ECC .17431 INC25.0815 V1 30.106
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.644 GAP 3.60 AZP 65.11 TAL 212.22 TAP 24.68 RCA 107.44 APO 152.81 V2 34.792
 RC 117.630 GL -62.52 GP 80.92 ZAL 104.91 ZAP 98.34 ETS 102.03 ZAE 85.82 ETE 185.58 ZAC 68.68 ETC 218.95 CLP 156.77

PLANETOCENTRIC CONIC

C3 174.551 VHL 13.212 DLA -46.39 RAL 54.31 RAD 6570.9 VEL 17.201 PTH 2.94 VMP 16.711 DPA 57.15 RAP 285.28 ECC 3.8727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.58 6 54 50 2110.30 8.12 51.94 316.48 135.84 7 30 0 1510.3 13.81 46.63
 128.42 14 46 37 668.34 8.14 299.72 316.49 135.83 14 57 45 68.3 13.83 294.40
 51.58 6 54 50 2110.30 8.12 51.94 316.48 135.84 7 30 0 1510.3 13.81 46.63
 128.42 14 46 37 668.34 8.14 299.72 316.49 135.83 14 57 45 68.3 13.83 294.40
 51.58 6 54 50 2110.30 8.12 51.94 316.48 135.84 7 30 0 1510.3 13.81 46.63
 128.42 14 46 37 668.34 8.14 299.72 316.49 135.83 14 57 45 68.3 13.83 294.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -5.6573 TRA 2.0883 TC3 -.1133 BAU .2654 SGT 2798.8 SGR 1845.8 SG3 69.9 ST 2484.9 SR 1823.0 SS 1029.7
 RDE -4.1984 RRA .4810 RC3 -.0096 FAU .00398 RRT .9430 RRF .9387 RTF .9989 CRT .9940 CRS -.9931 CST -1.0000
 FDE -1.6215 FRA .6304 FC3 -.0198 BSP 10405 SGB 3352.6 R23 -.1101 R13 .9928 LSA 3245.0 MSA 167.1 SSA 1.6
 BDE 7.0450 BRA 2.1430 BC3 .1137 FSP -219 SG1 3312.2 SG2 518.9 THA 32.79 EL1 3077.6 EL2 160.8 ALF 36.22

LAUNCH DATE FEB 22 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 372.198

RL 148.00 LAL .00 LOL 153.20 VL 27.770 GAL -5.92 AZL 131.56 HCA 175.10 SMA 129.82 ECC .17330 INC41.5632 V1 30.106
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.615 GAP 3.72 AZP 48.54 TAL 210.58 TAP 25.68 RCA 107.32 APO 152.31 V2 34.796
 RC 120.015 GL -61.43 GP 73.45 ZAL 98.96 ZAP 95.46 ETS 149.60 ZAE 73.64 ETE 230.77 ZAC 59.34 ETC 265.50 CLP 109.50

PLANETOCENTRIC CONIC

C3 435.412 VHL 20.867 DLA -42.30 RAL 62.38 RAD 6572.2 VEL 23.595 PTH 3.30 VMP 26.427 DPA 49.52 RAP 270.10 ECC 8.1658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.15 7 48 41 2169.76 2.24 51.63 329.91 132.26 8 24 51 1569.8 7.59 46.08
 122.85 14 57 12 841.85 2.25 309.77 329.92 132.26 15 11 13 241.9 7.61 304.22
 57.15 7 48 41 2169.76 2.24 51.63 329.91 132.26 8 24 51 1569.8 7.59 46.08
 122.85 14 57 12 841.85 2.25 309.77 329.92 132.26 15 11 13 241.9 7.61 304.22
 57.15 7 48 41 2169.76 2.24 51.63 329.91 132.26 8 24 51 1569.8 7.59 46.08
 122.85 14 57 12 841.85 2.25 309.77 329.92 132.26 15 11 13 241.9 7.61 304.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1458 TRA 2.0552 TC3 -.0112 BAU .7695 SGT 765.5 SGR 3244.9 SG3 56.4 ST 232.4 SR 2833.0 SS 1222.3
 RD -10.1766 RRA 4.1889 RC3 .1317 FAU -.01222 RRT .5124 RRF .9934 RTF .6073 CRT .3321 CRS -.9989 CST -.3761
 FDE -1.9057 FRA 1.0136 FC3 .0243 BSP 10432 SGB 3333.9 R23 -.0895 R13 .9960 LSA 3086.0 MSA 224.8 SSA .4
 BDE 10.1777 BRA 4.6660 BC3 .1322 FSP -180 SG1 3269.5 SG2 652.4 THA 82.82 EL1 2834.1 EL2 219.1 ALF 88.43

LAUNCH DATE FEB 22 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 376.543

RL 148.00 LAL .00 LOL 153.20 VL 27.725 GAL -5.37 AZL 171.36 HCA 176.66 SMA 129.50 ECC .17028 INC81.3593 V1 30.106
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.586 GAP 3.52 AZP 8.65 TAL 208.00 TAP 24.66 RCA 107.45 APO 151.55 V2 34.800
 RC 122.394 GL -46.25 GP 51.30 ZAL 94.53 ZAP 92.88 ETS 170.98 ZAE 50.74 ETE 248.22 ZAC 39.83 ETC 292.57 CLP 94.62

PLANETOCENTRIC CONIC

C3 1427.340 VHL 37.780 DLA -25.65 RAL 65.05 RAD 6573.2 VEL 39.353 PTH 3.55 VMP 47.618 DPA 29.09 RAP 257.05 ECC 24.4904
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 46 0 1929.24 -11.78 24.17 330.85 115.94 10 18 9 1329.2 -8.20 17.32
 90.00 13 21 11 1220.28 10.58 344.08 341.74 116.42 13 41 31 620.3 14.05 337.11
 100.00 10 41 55 1748.68 -14.90 9.33 329.28 116.22 11 11 3 1148.7 -11.26 2.44
 100.00 15 7 56 876.08 13.69 320.34 343.33 116.84 15 22 32 276.1 17.18 313.29
 110.00 11 3 39 1680.47 -21.61 .62 325.73 117.15 11 31 40 1080.5 -17.80 353.57
 110.00 17 2 41 5805.08 20.35 274.60 346.95 118.08 18 39 27 5205.1 23.94 267.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 5.0145 TRA .3622 TC3 -.0736 BAU 3.8767 SGT 944.1 SGR 3242.6 SG3 50.4 ST 760.9 SR 1778.4 SS 1544.3
 RD -11.3218 RRA 9.1369 RC3 .1894 FAU -.06501 RRT -.7840 RRF .9993 RTF -.7600 CRT -.9593 CRS -.9998 CST .9534
 FDE -2.3763 FRA 2.0722 FC3 .0394 BSP 8588 SGB 2872.2 R23 -.0946 R13 .9955 LSA 2466.0 MSA 212.6 SSA .7
 BDE 12.3826 BRA 9.1441 BC3 .2032 FSP -158 SG1 2816.2 SG2 564.5 THA 105.92 EL1 1924.1 EL2 198.6 ALF 112.57

LAUNCH DATE FEB 22 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 387.172

RL 148.00 LAL .00 LOL 153.20 VL 27.679 GAL -6.10 AZL 38.60 HCA 184.27 SMA 129.18 ECC .17969 INC51.4024 V1 30.106
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.557 GAP 5.06 AZP 141.32 TAL 210.18 TAP 34.46 RCA 105.97 APO 152.39 V2 34.805
 RC 124.766 GL 58.16 GP -68.12 ZAL 97.56 ZAP 96.28 ETS 186.77 ZAE 72.21 ETE 108.42 ZAC 82.37 ETC 78.47 CLP 107.07

PLANETOCENTRIC CONIC

C3 641.031 VHL 25.319 DLA 69.59 RAL 4.27 RAD 6572.6 VEL 27.610 PTH 3.41 VMP 31.198 DPA -83.81 RAP 156.98 ECC 11.5497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.33 14 16 18 5055.52 -1.19 246.33 273.84 20.41 15 40 34 4455.5 -8.68 243.93
 156.67 0 45 55 3304.87 -1.18 96.77 273.81 20.41 1 41 0 2704.9 -8.68 94.38
 23.33 14 16 18 5055.52 -1.19 246.33 273.84 20.41 15 40 34 4455.5 -8.68 243.93
 156.67 0 45 55 3304.87 -1.18 96.77 273.81 20.41 1 41 0 2704.9 -8.68 94.38
 23.33 14 16 18 5055.52 -1.19 246.33 273.84 20.41 15 40 34 4455.5 -8.68 243.93
 156.67 0 45 55 3304.87 -1.18 96.77 273.81 20.41 1 41 0 2704.9 -8.68 94.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4823 TRA 1.3133 TC3 -.0639 BAU 1.6354 SGT 918.2 SGR 3342.9 SG3 55.1 ST 278.2 SR 2707.4 SS 1431.1
 RD -11.7173 RRA 2.8052 RC3 -.1798 FAU -.02220 RRT .6958 RRF -.9989 RTF -.6669 CRT .5700 CRS .9999 CST .5587
 FDE 2.3041 FRA -.5137 FC3 .0300 BSP 10924 SGB 3466.7 R23 -.0769 R13 -.9967 LSA 3066.4 MSA 229.4 SSA 1.3
 BDE 11.7272 BRA 3.0974 BC3 .1908 FSP -182 SG1 3405.7 SG2 647.3 THA 78.77 EL1 2712.1 EL2 228.2 ALF 86.62

LAUNCH DATE FEB 22 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 392.434

RL 148.00 LAL .00 LOL 153.20 VL 27.632 GAL -5.74 AZL 59.96 HCA 186.74 SMA 128.86 ECC .17842 INC30.0379 V1 30.106
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.528 GAP 5.11 AZP 119.87 TAL 208.33 TAP 35.07 RCA 105.87 APO 151.85 V2 34.811
 RC 127.128 GL 62.89 GP -77.34 ZAL 101.75 ZAP 100.58 ETS 223.81 ZAE 86.91 ETE 144.74 ZAC 94.48 ETC 116.77 CLP 146.86

PLANETOCENTRIC CONIC

C3 239.036 VHL 15.461 DLA 67.66 RAL 344.03 RAD 6571.4 VEL 18.983 PTH 3.08 VHP 18.825 DPA -75.43 RAP 73.34 ECC 4.9339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.59 13 0 30 4950.11 -7.39 242.92 250.99 22.54 14 23 0 4350.1 -14.77 240.18
 154.41 23 16 21 3212.67 -7.39 95.78 250.97 22.54 24 9 54 2612.7 -14.76 93.03
 25.59 13 0 30 4950.11 -7.39 242.92 250.99 22.54 14 23 0 4350.1 -14.77 240.18
 154.41 23 16 21 3212.67 -7.39 95.78 250.97 22.54 24 9 54 2612.7 -14.76 93.03
 25.59 13 0 30 4950.11 -7.39 242.92 250.99 22.54 14 23 0 4350.1 -14.77 240.18
 154.41 23 16 21 3212.67 -7.39 95.78 250.97 22.54 24 9 54 2612.7 -14.76 93.03

DIFFERENTIAL CORRECTIONS

TDE 3.4598 TRA-1.0627 TC3 -.0216 BAU .1351
 RDE -3.9000 RRA 3.1205 RC3 -.0363 FAU .00320
 FDE 1.2637 FRA -.6513 FC3 -.0116 BSP 11680
 BDE 5.2134 BRA 3.2964 DC3 .0423 FSP -221

MID-COURSE EXECUTION ACCURACY

SGT 1649.6 SGR 3369.5 SG3 68.2
 RRT -.8989 RRF -.9786 RTF .9675
 SGB 3751.7 R23 -.1203 R13 -.9917
 SG1 3693.2 SG2 659.6 THA 114.59

ORBIT DETERMINATION ACCURACY

ST 1319.3 SR 1709.3 SS 822.3
 CRT -.9475 CRS .9844 CST -.9890
 LSA 2285.2 MSA 340.8 SSA 1.7
 EL1 2132.6 EL2 338.0 ALF 127.27

LAUNCH DATE FEB 22 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 398.116

RL 148.00 LAL .00 LOL 153.20 VL 27.585 GAL -5.45 AZL 69.31 HCA 189.62 SMA 128.53 ECC .17817 INC20.6907 V1 30.106
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.499 GAP 5.28 AZP 110.42 TAL 206.75 TAP 36.37 RCA 105.63 APO 151.43 V2 34.818
 RC 129.481 GL 61.17 GP -74.46 ZAL 105.74 ZAP 105.50 ETS 273.71 ZAE 95.83 ETE 193.75 ZAC 101.19 ETC 166.93 CLP-176.29

PLANETOCENTRIC CONIC

C3 122.649 VHL 11.075 DLA 63.72 RAL 342.33 RAD 6570.3 VEL 15.620 PTH 2.78 VHP 13.367 DPA -66.56 RAP 59.16 ECC 3.0185
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.20 13 4 13 4821.73 -14.00 236.81 245.27 27.15 14 24 35 4221.7 -21.08 233.32
 149.80 22 59 3 3116.20 -13.99 94.80 245.25 27.15 23 50 59 2516.2 -21.07 91.32
 30.20 13 4 13 4821.73 -14.00 236.81 245.27 27.15 14 24 35 4221.7 -21.08 233.32
 149.80 22 59 3 3116.20 -13.99 94.80 245.25 27.15 23 50 59 2516.2 -21.07 91.32
 30.20 13 4 13 4821.73 -14.00 236.81 245.27 27.15 14 24 35 4221.7 -21.08 233.32
 149.80 22 59 3 3116.20 -13.99 94.80 245.25 27.15 23 50 59 2516.2 -21.07 91.32

DIFFERENTIAL CORRECTIONS

TDE 3.3536 TRA-2.8030 TC3 -.2610 BAU .4299
 RDE -.0319 RRA .9008 RC3 .0246 FAU .01531
 FDE 1.0738 FRA -.6910 FC3 -.1081 BSP 12239
 BDE 3.3537 BRA 2.9442 BC3 .2622 FSP -285

MID-COURSE EXECUTION ACCURACY

SGT 3751.1 SGR 1054.0 SG3 87.2
 RRT -.8870 RRF -.8200 RTF .9900
 SGB 3896.4 R23 -.1565 R13 -.9856
 SG1 3867.7 SG2 472.0 THA 165.79

ORBIT DETERMINATION ACCURACY

ST 1994.0 SR 316.2 SS 700.0
 CRT -.5375 CRS .4470 CST -.9946
 LSA 2118.8 MSA 276.4 SSA 2.1
 EL1 2001.3 EL2 265.6 ALF 175.04

LAUNCH DATE FEB 22 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 403.924

RL 148.00 LAL .00 LOL 153.20 VL 27.537 GAL -5.18 AZL 74.31 HCA 192.64 SMA 128.20 ECC .17830 INC15.6942 V1 30.106
 RP 108.82 LAP -3.39 LOP 345.38 VP 37.471 GAP 5.48 AZP 105.33 TAL 205.24 TAP 37.88 RCA 105.35 APO 151.06 V2 34.825
 RC 131.823 GL 57.73 GP -68.40 ZAL 109.11 ZAP 110.58 ETS 291.56 ZAE 102.38 ETE 210.16 ZAC 105.89 ETC 184.46 CLP-162.69

PLANETOCENTRIC CONIC

C3 76.978 VHL 8.774 DLA 60.09 RAL 345.32 RAD 6569.5 VEL 14.083 PTH 2.57 VHP 10.566 DPA -59.16 RAP 52.28 ECC 2.2669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.50 13 26 37 4703.22 -19.36 230.09 243.67 31.91 14 45 0 4103.2 -26.09 225.81
 145.50 23 0 29 3034.08 -19.35 93.18 243.65 31.90 23 51 3 2434.1 -26.08 88.91
 34.50 13 26 37 4703.22 -19.36 230.09 243.67 31.91 14 45 0 4103.2 -26.09 225.81
 145.50 23 0 29 3034.08 -19.35 93.18 243.65 31.90 23 51 3 2434.1 -26.08 88.91
 34.50 13 26 37 4703.22 -19.36 230.09 243.67 31.91 14 45 0 4103.2 -26.09 225.81
 145.50 23 0 29 3034.08 -19.35 93.18 243.65 31.90 23 51 3 2434.1 -26.08 88.91

DIFFERENTIAL CORRECTIONS

TDE 2.5845 TRA-2.6217 TC3 -.6113 BAU .6338
 RDE .6920 RRA .0328 RC3 -.0750 FAU .02440
 FDE 1.0839 FRA -.7125 FC3 -.2744 BSP 12568
 BDE 2.6756 BRA 2.6219 BC3 .6159 FSP -360

MID-COURSE EXECUTION ACCURACY

SGT 3973.4 SGR 472.7 SG3 109.4
 RRT .4029 RRF .5735 RTF .9768
 SGB 4001.4 R23 .1915 R13 .9778
 SG1 3978.0 SG2 432.1 THA 2.78

ORBIT DETERMINATION ACCURACY

ST 1977.5 SR 452.1 SS 695.0
 CRT .8384 CRS -.9190 CST -.9854
 LSA 2128.4 MSA 260.6 SSA 2.7
 EL1 2014.1 EL2 242.0 ALF 11.01

LAUNCH DATE FEB 22 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 409.779

RL 148.00 LAL .00 LOL 153.20 VL 27.489 GAL -4.91 AZL 77.39 HCA 195.72 SMA 127.88 ECC .17864 INC12.6133 V1 30.106
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.443 GAP 5.70 AZP 102.16 TAL 203.74 TAP 39.46 RCA 105.03 APO 150.72 V2 34.833
 RC 134.153 GL 53.98 GP -62.25 ZAL 111.76 ZAP 115.54 ETS 298.05 ZAE 107.59 ETE 214.68 ZAC 109.67 ETC 190.18 CLP-157.85

PLANETOCENTRIC CONIC

C3 54.680 VHL 7.395 DLA 56.89 RAL 349.32 RAD 6569.0 VEL 13.268 PTH 2.42 VHP 8.956 DPA -52.58 RAP 48.10 ECC 1.8999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.35 13 52 36 4601.92 -23.21 223.42 243.10 36.46 15 9 18 4001.9 -29.55 218.39
 141.65 23 6 26 2971.38 -23.20 91.38 243.08 36.46 23 55 57 2371.4 -29.54 86.35
 38.35 13 52 36 4601.92 -23.21 223.42 243.10 36.46 15 9 18 4001.9 -29.55 218.39
 141.65 23 6 26 2971.38 -23.20 91.38 243.08 36.46 23 55 57 2371.4 -29.54 86.35
 38.35 13 52 36 4601.92 -23.21 223.42 243.10 36.46 15 9 18 4001.9 -29.55 218.39
 141.65 23 6 26 2971.38 -23.20 91.38 243.08 36.46 23 55 57 2371.4 -29.54 86.35

DIFFERENTIAL CORRECTIONS

TDE 2.1926 TRA-2.3650 TC3 -1.0007 BAU .7440
 RDE .7515 RRA -.1658 RC3 -.1851 FAU .03228
 FDE 1.1214 FRA -.7145 FC3 -.5111 BSP 12959
 BDE 2.3178 BRA 2.3708 BC3 1.0177 FSP -442

MID-COURSE EXECUTION ACCURACY

SGT 4041.4 SGR 685.1 SG3 132.6
 RRT .7887 RRF .9051 RTF .9670
 SGB 4099.1 R23 .2183 R13 .9701
 SG1 4077.8 SG2 417.4 THA 7.70

ORBIT DETERMINATION ACCURACY

ST 1975.2 SR 586.6 SS 712.6
 CRT .9154 CRS -.9767 CST -.9804
 LSA 2165.3 MSA 253.9 SSA 3.5
 EL1 2047.8 EL2 227.7 ALF 15.40

LAUNCH DATE FEB 22 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 415.652

RL 148.00 LAL .00 LOL 153.20 VL 27.441 GAL -4.65 AZL 79.48 HCA 198.83 SMA 127.55 ECC .17915 INC10.5238 V1 30.106
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.415 GAP 5.92 AZP 99.97 TAL 202.24 TAP 41.07 RCA 104.70 APO 150.40 V2 34.841
 RC 136.471 GL 50.36 GP -56.56 ZAL 113.72 ZAP 120.26 ETS 301.20 ZAE 111.83 ETE 215.45 ZAC 112.92 ETC 192.25 CLP-156.13

PLANETOCENTRIC CONIC

C3 42.084 VHL 6.487 CLA 54.12 RAL 353.42 RAD 6568.6 VEL 12.785 PTH 2.33 VHP 7.964 OPA -46.61 RAP 45.45 ECC 1.6926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.75 14 18 26 4516.70 -25.82 217.15 242.94 40.63 15 33 43 3916.7 -31.76 211.45
 138.25 23 13 19 2925.70 -25.81 89.69 242.93 40.63 24 2 5 2325.7 -31.75 84.00
 41.75 14 18 26 4516.70 -25.82 217.15 242.94 40.63 15 33 43 3916.7 -31.76 211.45
 138.25 23 13 19 2925.70 -25.81 89.69 242.93 40.63 24 2 5 2325.7 -31.75 84.00
 41.75 14 18 26 4516.70 -25.82 217.15 242.94 40.63 15 33 43 3916.7 -31.76 211.45
 138.25 23 13 19 2925.70 -25.81 89.69 242.93 40.63 24 2 5 2325.7 -31.75 84.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9686 TRA-2.1574 TC3-1.4184 BAU .8130 SGT 4120.4 SGR 771.2 SG3 154.3 ST 1994.3 SR 620.9 SS 728.9
 RDE .6956 RRA -.1979 RC3 -.2763 FAU .03896 RRT .8487 RRF .9473 RTF .9592 CRT .9335 CRS -.9880 CST -.9777
 FDE 1.1455 FRA -.6911 FC3 -.8014 BSP 13306 SGB 4192.0 R23 .2371 R13 .9630 LSA 2198.4 MSA 247.1 SSA 4.4
 BDE 2.0879 BRA 2.1665 BC3 1.4451 FSP -520 SG1 4172.6 SG2 402.8 THA 9.11 EL1 2077.8 EL2 213.6 ALF 16.38

LAUNCH DATE FEB 22 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 421.535

RL 148.00 LAL .00 LOL 153.20 VL 27.392 GAL -4.37 AZL 80.99 HCA 201.96 SMA 127.22 ECC .17978 INC 9.0093 V1 30.106
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.388 GAP 6.14 AZP 98.37 TAL 200.72 TAP 42.68 RCA 104.35 APO 150.09 V2 34.850
 RC 138.775 GL 47.00 GP -51.43 ZAL 115.03 ZAP 124.64 ETS 303.12 ZAE 115.30 ETE 214.73 ZAC 115.84 ETC 192.89 CLP-155.72

PLANETOCENTRIC CONIC

C3 34.199 VHL 5.848 CLA 51.72 RAL 357.41 RAD 6568.3 VEL 12.473 PTH 2.26 VHP 7.329 OPA -41.19 RAP 43.81 ECC 1.5628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.72 14 43 12 4444.64 -27.54 211.42 243.12 44.32 15 57 17 3844.6 -33.11 205.18
 135.28 23 20 24 2892.95 -27.53 88.24 243.11 44.31 24 8 37 2293.0 -33.10 82.00
 44.72 14 43 12 4444.64 -27.54 211.42 243.12 44.32 15 57 17 3844.6 -33.11 205.18
 135.28 23 20 24 2892.95 -27.53 88.24 243.11 44.31 24 8 37 2293.0 -33.10 82.00
 44.72 14 43 12 4444.64 -27.54 211.42 243.12 44.32 15 57 17 3844.6 -33.11 205.18
 135.28 23 20 24 2892.95 -27.53 88.24 243.11 44.31 24 8 37 2293.0 -33.10 82.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8676 TRA-1.9380 TC3-1.8016 BAU .8366 SGT 4145.4 SGR 774.9 SG3 169.4 ST 2048.9 SR 632.8 SS 757.2
 RDE .6410 RRA -.1621 RC3 -.3201 FAU .04253 RRT .8481 RRF .9512 RTF .9479 CRT .9414 CRS -.9927 CST -.9751
 FDE 1.1843 FRA -.6040 FC3-1.0765 BSP 12476 SGB 4217.2 R23 .2633 R13 .9521 LSA 2260.6 MSA 247.3 SSA 5.3
 BDE 1.9746 BRA 1.9448 BC3 1.8298 FSP -509 SG1 4197.6 SG2 405.4 THA 9.09 EL1 2134.6 EL2 204.8 ALF 16.37

LAUNCH DATE FEB 22 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 427.409

RL 148.00 LAL .00 LOL 153.20 VL 27.343 GAL -4.09 AZL 82.14 HCA 205.10 SMA 126.90 ECC .18056 INC 7.8564 V1 30.106
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.361 GAP 6.37 AZP 97.12 TAL 199.19 TAP 44.29 RCA 103.98 APO 149.81 V2 34.860
 RC 141.067 GL 43.92 GP -46.85 ZAL 115.78 ZAP 128.65 ETS 304.49 ZAE 118.13 ETE 213.32 ZAC 118.51 ETC 192.87 CLP-155.97

PLANETOCENTRIC CONIC

C3 28.885 VHL 5.374 CLA 49.67 RAL 1.27 RAD 6568.2 VEL 12.258 PTH 2.21 VHP 6.915 OPA -36.29 RAP 42.88 ECC 1.4754
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.33 15 6 50 4382.95 -28.65 206.27 243.64 47.53 16 19 53 3783.0 -33.87 199.59
 132.67 23 27 32 2869.75 -28.64 87.07 243.63 47.52 24 15 22 2269.8 -33.86 80.38
 47.33 15 6 50 4382.95 -28.65 206.27 243.64 47.53 16 19 53 3783.0 -33.87 199.59
 132.67 23 27 32 2869.75 -28.64 87.07 243.63 47.52 24 15 22 2269.8 -33.86 80.38
 47.33 15 6 50 4382.95 -28.65 206.27 243.64 47.53 16 19 53 3783.0 -33.87 199.59
 132.67 23 27 32 2869.75 -28.64 87.07 243.63 47.52 24 15 22 2269.8 -33.86 80.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7318 TRA-1.8133 TC3-2.2797 BAU .8925 SGT 4281.7 SGR 765.2 SG3 187.1 ST 2053.5 SR 604.5 SS 747.3
 RDE .5628 RRA -.1479 RC3 -.3793 FAU .04761 RRT .8630 RRF .9543 RTF .9452 CRT .9458 CRS -.9947 CST -.9740
 FDE 1.1433 FRA -.5602 FC3-1.4271 BSP 13551 SGB 4349.6 R23 .2595 R13 .9489 LSA 2254.9 MSA 236.9 SSA 6.5
 BDE 1.8210 BRA 1.8193 BC3 2.3111 FSP -613 SG1 4333.0 SG2 379.3 THA 8.86 EL1 2132.3 EL2 189.1 ALF 15.68

LAUNCH DATE FEB 22 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 433.283

RL 148.00 LAL .00 LOL 153.20 VL 27.294 GAL -3.80 AZL 83.05 HCA 208.25 SMA 126.57 ECC .18146 INC 6.9450 V1 30.106
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.334 GAP 6.60 AZP 96.12 TAL 197.64 TAP 45.89 RCA 103.60 APO 149.54 V2 34.870
 RC 143.344 GL 41.10 GP -42.81 ZAL 116.01 ZAP 132.30 ETS 305.57 ZAE 120.42 ETE 211.63 ZAC 121.01 ETC 192.55 CLP-156.54

PLANETOCENTRIC CONIC

C3 25.091 VHL 5.009 CLA 47.91 RAL 5.03 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 6.646 OPA -31.85 RAP 42.49 ECC 1.4129
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.59 15 29 26 4329.60 -29.36 201.69 244.50 50.28 16 41 35 3729.6 -34.27 194.67
 130.41 23 34 59 2853.17 -29.35 86.13 244.49 50.27 24 22 32 2253.2 -34.26 79.11
 49.59 15 29 26 4329.60 -29.36 201.69 244.50 50.28 16 41 35 3729.6 -34.27 194.67
 130.41 23 34 59 2853.17 -29.35 86.13 244.49 50.27 24 22 32 2253.2 -34.26 79.11
 49.59 15 29 26 4329.60 -29.36 201.69 244.50 50.28 16 41 35 3729.6 -34.27 194.67
 130.41 23 34 59 2853.17 -29.35 86.13 244.49 50.27 24 22 32 2253.2 -34.26 79.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6521 TRA-1.6696 TC3-2.7304 BAU .9259 SGT 4378.4 SGR 736.3 SG3 199.0 ST 2075.7 SR 582.3 SS 742.7
 RDE .5061 RRA -.1195 RC3 -.4058 FAU .05034 RRT .8646 RRF .9487 RTF .9403 CRT .9493 CRS -.9962 CST -.9727
 FDE 1.1094 FRA -.4778 FC3-1.7368 BSP 13897 SGB 4439.9 R23 .2587 R13 .9435 LSA 2268.5 MSA 230.6 SSA 7.6
 BDE 1.7279 BRA 1.6739 BC3 2.7604 FSP -656 SG1 4424.8 SG2 366.0 THA 8.33 EL1 2148.6 EL2 176.9 ALF 15.02

LAUNCH DATE FEB 22 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 439.150

RL 148.00 LAL .00 LOL 153.20 VL 27.245 GAL -3.51 AZL 83.80 HCA 211.40 SMA 126.25 ECC .18249 INC 6.2027 V1 30.106
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.308 GAP 6.83 AZP 95.30 TAL 196.08 TAP 47.48 RCA 103.21 APO 149.29 V2 34.880
 RC 145.608 GL 38.52 GP -39.25 ZAL 115.79 ZAP 135.59 ETS 306.46 ZAE 122.26 ETE 209.83 ZAC 123.39 ETC 192.09 CLP-157.29

PLANETOCENTRIC CONIC

C3 22.262 VHL 4.718 CLA 46.41 RAL 8.75 RAD 6567.9 VEL 11.985 PTH 2.14 VHP 6.476 DPA -27.85 RAP 42.51 ECC 1.3664
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.56 15 51 12 4282.99 -29.81 197.63 245.70 52.63 17 2 34 3683.0 -34.45 190.34
 128.44 23 42 52 2841.30 -29.80 85.40 245.69 52.62 24 30 13 2241.3 -34.44 78.12
 51.56 15 51 12 4282.99 -29.81 197.63 245.70 52.63 17 2 34 3683.0 -34.45 190.34
 128.44 23 42 52 2841.30 -29.80 85.40 245.69 52.62 24 30 13 2241.3 -34.44 78.12
 51.56 15 51 12 4282.99 -29.81 197.63 245.70 52.63 17 2 34 3683.0 -34.45 190.34
 128.44 23 42 52 2841.30 -29.80 85.40 245.69 52.62 24 30 13 2241.3 -34.44 78.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5927 TRA-1.5294 TC3-3.1817 BAU .9551 SGT 4473.2 SGR 703.7 SG3 207.5 ST 2098.0 SR 561.5 SS 733.9
 RDE .4605 RRA -.0933 RC3 -.4180 FAU .05193 RRT .8603 RRF .9390 RTF .9359 CRT .9528 CRS -.9974 CST -.9715
 FDE 1.0660 FRA -.3858 FC3-2.0194 BSP 14193 SGB 4528.2 R23 .2525 R13 .9386 LSA 2281.4 MSA 224.2 SSA 8.9
 BDE 1.6579 BRA 1.5323 BC3 3.2090 FSP -685 SG1 4514.3 SG2 355.5 THA 7.76 EL1 2165.5 EL2 165.1 ALF 14.39

LAUNCH DATE FEB 22 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 445.009

RL 148.00 LAL .00 LOL 153.20 VL 27.196 GAL -3.20 AZL 84.42 HCA 214.57 SMA 125.93 ECC .18365 INC 5.5831 V1 30.106
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.282 GAP 7.06 AZP 94.60 TAL 194.50 TAP 49.06 RCA 102.80 APO 149.06 V2 34.891
 RC 147.857 GL 36.12 GP -36.12 ZAL 115.14 ZAP 138.56 ETS 307.20 ZAE 123.75 ETE 208.05 ZAC 125.70 ETC 191.58 CLP-158.14

PLANETOCENTRIC CONIC

C3 20.083 VHL 4.481 CLA 45.12 RAL 12.47 RAD 6567.8 VEL 11.894 PTH 2.11 VHP 6.376 DPA -24.24 RAP 42.87 ECC 1.3305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.28 16 12 21 4241.93 -30.09 194.04 247.24 54.64 17 23 3 3641.9 -34.48 186.54
 126.72 23 51 21 2832.84 -30.08 84.85 247.22 54.63 24 38 33 2232.8 -34.47 77.35
 53.28 16 12 21 4241.93 -30.09 194.04 247.24 54.64 17 23 3 3641.9 -34.48 186.54
 126.72 23 51 21 2832.84 -30.08 84.85 247.22 54.63 24 38 33 2232.8 -34.47 77.35
 53.28 16 12 21 4241.93 -30.09 194.04 247.24 54.64 17 23 3 3641.9 -34.48 186.54
 126.72 23 51 21 2832.84 -30.08 84.85 247.22 54.63 24 38 33 2232.8 -34.47 77.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5463 TRA-1.3903 TC3-3.6317 BAU .9816 SGT 4566.1 SGR 672.1 SG3 213.2 ST 2118.7 SR 543.4 SS 721.3
 RDE .4239 RRA -.0705 RC3 -.4199 FAU .05259 RRT .8532 RRF .9258 RTF .9321 CRT .9567 CRS -.9984 CST -.9703
 FDE 1.0156 FRA -.2896 FC3-2.2669 BSP 14483 SGB 4615.3 R23 .2414 R13 .9344 LSA 2292.9 MSA 217.6 SSA 10.3
 BDE 1.6033 BRA 1.3921 BC3 3.6559 FSP -703 SG1 4602.1 SG2 347.8 THA 7.20 EL1 2181.9 EL2 153.6 ALF 13.86

LAUNCH DATE FEB 22 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 450.859

RL 148.00 LAL .00 LOL 153.20 VL 27.147 GAL -2.88 AZL 84.94 HCA 217.73 SMA 125.61 ECC .18496 INC 5.0551 V1 30.106
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.257 GAP 7.29 AZP 94.00 TAL 192.90 TAP 50.63 RCA 102.38 APO 148.84 V2 34.902
 RC 150.092 GL 33.88 GP -33.37 ZAL 114.13 ZAP 141.25 ETS 307.82 ZAE 124.94 ETE 206.35 ZAC 127.95 ETC 191.05 CLP-159.05

PLANETOCENTRIC CONIC

C3 18.363 VHL 4.285 CLA 44.01 RAL 16.21 RAD 6567.7 VEL 11.821 PTH 2.09 VHP 6.327 DPA -20.96 RAP 43.48 ECC 1.3022
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.79 16 33 7 4205.55 -30.25 190.84 249.09 56.37 17 43 12 3605.6 -34.43 183.18
 125.21 0 4 26 2826.92 -30.24 84.44 249.08 56.36 0 51 33 2226.9 -34.42 76.78
 54.79 16 33 7 4205.55 -30.25 190.84 249.09 56.37 17 43 12 3605.6 -34.43 183.18
 125.21 0 4 26 2826.92 -30.24 84.44 249.08 56.36 0 51 33 2226.9 -34.42 76.78
 54.79 16 33 7 4205.55 -30.25 190.84 249.09 56.37 17 43 12 3605.6 -34.43 183.18
 125.21 0 4 26 2826.92 -30.24 84.44 249.08 56.36 0 51 33 2226.9 -34.42 76.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5091 TRA-1.2504 TC3-4.0793 BAU 1.0066 SGT 4658.0 SGR 643.7 SG3 216.7 ST 2137.4 SR 528.5 SS 705.4
 RDE .3946 RRA -.0513 RC3 -.4156 FAU .05257 RRT .8443 RRF .9096 RTF .9290 CRT .9611 CRS -.9991 CST -.9692
 FDE .9605 FRA -.1934 FC3-2.4783 BSP 14789 SGB 4702.3 R23 .2257 R13 .9310 LSA 2302.4 MSA 210.4 SSA 11.8
 BDE 1.5598 BRA 1.2515 BC3 4.1004 FSP -715 SG1 4689.8 SG2 342.6 THA 6.69 EL1 2197.2 EL2 142.0 ALF 13.43

LAUNCH DATE FEB 22 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 456.700

RL 148.00 LAL .00 LOL 153.20 VL 27.098 GAL -2.56 AZL 85.40 HCA 220.90 SMA 125.30 ECC .18640 INC 4.5974 V1 30.106
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.232 GAP 7.53 AZP 93.48 TAL 191.29 TAP 52.19 RCA 101.94 APO 148.65 V2 34.914
 RC 152.312 GL 31.77 GP -30.95 ZAL 112.77 ZAP 143.68 ETS 308.31 ZAE 125.91 ETE 204.76 ZAC 130.16 ETC 190.54 CLP-159.98

PLANETOCENTRIC CONIC

C3 16.983 VHL 4.121 CLA 43.04 RAL 20.03 RAD 6567.7 VEL 11.763 PTH 2.08 VHP 6.317 DPA -17.99 RAP 44.32 ECC 1.2795
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.13 16 53 41 4173.13 -30.32 187.99 251.26 57.86 18 3 14 3573.1 -34.33 180.20
 123.87 0 14 19 2823.04 -30.31 84.14 251.25 57.85 1 1 22 2223.0 -34.31 76.36
 56.13 16 53 41 4173.13 -30.32 187.99 251.26 57.86 18 3 14 3573.1 -34.33 180.20
 123.87 0 14 19 2823.04 -30.31 84.14 251.25 57.85 1 1 22 2223.0 -34.31 76.36
 56.13 16 53 41 4173.13 -30.32 187.99 251.26 57.86 18 3 14 3573.1 -34.33 180.20
 123.87 0 14 19 2823.04 -30.31 84.14 251.25 57.85 1 1 22 2223.0 -34.31 76.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4819 TRA-1.1038 TC3-4.5129 BAU 1.0287 SGT 4742.2 SGR 619.4 SG3 218.0 ST 2157.4 SR 518.1 SS 689.5
 RDE .3723 RRA -.0338 RC3 -.4051 FAU .05185 RRT .8320 RRF .8903 RTF .9258 CRT .9661 CRS -.9995 CST -.9681
 FDE .9066 FRA -.0948 FC3-2.6432 BSP 15012 SGB 4782.5 R23 .2091 R13 .9275 LSA 2314.4 MSA 203.4 SSA 13.3
 BDE 1.5280 BRA 1.1043 BC3 4.5311 FSP -714 SG1 4770.2 SG2 341.6 THA 6.23 EL1 2214.9 EL2 130.3 ALF 13.11

LAUNCH DATE FEB 22 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 462.530

RL 148.00 LAL .00 LOL 153.20 VL 27.049 GAL -2.22 AZL 85.81 HCA 224.08 SMA 124.99 ECC .18800 INC 4.1944 VI 30.106
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.208 GAP 7.77 AZP 93.02 TAL 189.66 TAP 53.74 RCA 101.49 APO 148.48 V2 34.926
 RC 154.516 GL 29.76 GP -28.82 ZAL 111.09 ZAP 145.90 ETS 308.68 ZAE 126.69 ETE 203.28 ZAC 132.36 ETC 190.04 CLP-160.92

PLANETOCENTRIC CONIC

C3 15.865 VHL 3.983 CLA 42.17 RAL 23.94 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 6.336 DPA -15.27 RAP 45.35 ECC 1.2611
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.34 17 14 15 4144.03 -30.33 185.42 253.73 59.16 18 23 19 3544.0 -34.17 177.53
 122.66 0 24 54 2821.02 -30.32 83.97 253.72 59.15 1 11 55 2221.0 -34.16 76.08
 57.34 17 14 15 4144.03 -30.33 185.42 253.73 59.16 18 23 19 3544.0 -34.17 177.53
 122.66 0 24 54 2821.02 -30.32 83.97 253.72 59.15 1 11 55 2221.0 -34.16 76.08
 57.34 17 14 15 4144.03 -30.33 185.42 253.73 59.16 18 23 19 3544.0 -34.17 177.53
 122.66 0 24 54 2821.02 -30.32 83.97 253.72 59.15 1 11 55 2221.0 -34.16 76.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4560 TRA -3.963 TC3-4.9404 BAU 1.0512 SGT 4829.2 SGR 599.5 SG3 218.2 ST 2170.4 SR 509.7 SS 669.6
 RDE .3542 RRA -.0196 RC3 -.3937 FAU .05084 RRT .8193 RRF .8691 RTF .9239 CRT .9713 CRS -.9991 CST -.9669
 FDE .8490 FRA -.0029 FC3-2.7741 BSP 15315 SGB 4866.2 R23 .1888 R13 .9253 LSA 2319.5 MSA 195.5 SSA 15.0
 BDE 1.4984 BRA .9565 BC3 4.9560 FSP -716 SG1 4854.2 SG2 342.0 THA 5.84 EL1 2226.3 EL2 118.1 ALF 12.89

LAUNCH DATE FEB 22 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 468.349

RL 148.00 LAL .00 LOL 153.20 VL 27.000 GAL -1.87 AZL 86.17 HCA 227.25 SMA 124.68 ECC .18976 INC 3.8349 VI 30.106
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.184 GAP 8.01 AZP 92.61 TAL 188.03 TAP 55.28 RCA 101.02 APO 148.34 V2 34.938
 RC 156.704 GL 27.82 GP -26.93 ZAL 109.12 ZAP 147.91 ETS 308.93 ZAE 127.33 ETE 201.94 ZAC 134.55 ETC 189.57 CLP-161.87

PLANETOCENTRIC CONIC

C3 14.959 VHL 3.868 CLA 41.39 RAL 27.95 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 6.380 DPA -12.79 RAP 46.53 ECC 1.2462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.46 17 35 3 4117.66 -30.27 183.08 256.49 60.31 18 43 41 3517.7 -33.97 175.12
 121.54 0 36 8 2820.91 -30.26 83.92 256.48 60.29 1 23 9 2220.9 -33.95 75.96
 58.46 17 35 3 4117.66 -30.27 183.08 256.49 60.31 18 43 41 3517.7 -33.97 175.12
 121.54 0 36 8 2820.91 -30.26 83.92 256.48 60.29 1 23 9 2220.9 -33.95 75.96
 58.46 17 35 3 4117.66 -30.27 183.08 256.49 60.31 18 43 41 3517.7 -33.97 175.12
 121.54 0 36 8 2820.91 -30.26 83.92 256.48 60.29 1 23 9 2220.9 -33.95 75.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4309 TRA -.8027 TC3-5.3503 BAU 1.0727 SGT 4912.6 SGR 583.4 SG3 217.1 ST 2176.0 SR 503.3 SS 646.6
 RDE .3397 RRA -.0067 RC3 -.3812 FAU .04952 RRT .8053 RRF .8461 RTF .9225 CRT .9767 CRS -.9979 CST -.9654
 FDE .7898 FRA .0860 FC3-2.8662 BSP 15605 SGB 4947.1 R23 .1679 R13 .9236 LSA 2317.5 MSA 187.4 SSA 16.8
 BDE 1.4707 BRA .8027 BC3 5.3639 FSP -713 SG1 4935.1 SG2 344.3 THA 5.49 EL1 2220.9 EL2 105.3 ALF 12.76

LAUNCH DATE FEB 22 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 474.156

RL 148.00 LAL .00 LOL 153.20 VL 26.952 GAL -1.51 AZL 86.49 HCA 230.44 SMA 124.37 ECC .19170 INC 3.5102 VI 30.106
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.161 GAP 8.26 AZP 92.24 TAL 186.38 TAP 56.82 RCA 100.53 APO 148.21 V2 34.951
 RC 158.875 GL 25.93 GP -25.26 ZAL 106.88 ZAP 149.76 ETS 309.05 ZAE 127.85 ETE 200.71 ZAC 136.75 ETC 189.13 CLP-162.81

PLANETOCENTRIC CONIC

C3 14.231 VHL 3.772 CLA 40.65 RAL 32.08 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 6.443 DPA -10.50 RAP 47.85 ECC 1.2342
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.53 17 56 14 4093.49 -30.14 180.92 259.54 61.33 19 4 27 3493.5 -33.71 172.90
 120.47 0 47 54 2822.91 -30.13 84.01 259.53 61.31 1 34 57 2222.9 -33.70 75.99
 59.53 17 56 14 4093.49 -30.14 180.92 259.54 61.33 19 4 27 3493.5 -33.71 172.90
 120.47 0 47 54 2822.91 -30.13 84.01 259.53 61.31 1 34 57 2222.9 -33.70 75.99
 59.53 17 56 14 4093.49 -30.14 180.92 259.54 61.33 19 4 27 3493.5 -33.71 172.90
 120.47 0 47 54 2822.91 -30.13 84.01 259.53 61.31 1 34 57 2222.9 -33.70 75.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4059 TRA -.6428 TC3-5.7340 BAU 1.0932 SGT 4993.1 SGR 571.1 SG3 215.1 ST 2173.7 SR 499.1 SS 621.9
 RDE .3285 RRA .0051 RC3 -.3680 FAU .04797 RRT .7902 RRF .8221 RTF .9216 CRT .9820 CRS -.9954 CST -.9636
 FDE .7311 FRA .1709 FC3-2.9183 BSP 15889 SGB 5025.6 R23 .1473 R13 .9226 LSA 2308.3 MSA 179.3 SSA 18.8
 BDE 1.4437 BRA .6428 BC3 5.7458 FSP -707 SG1 5013.5 SG2 348.6 THA 5.19 EL1 2228.4 EL2 91.8 ALF 12.73

LAUNCH DATE FEB 22 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 479.950

RL 148.00 LAL .00 LOL 153.20 VL 26.904 GAL -1.13 AZL 86.79 HCA 233.62 SMA 124.07 ECC .19381 INC 3.2138 VI 30.106
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.138 GAP 8.52 AZP 91.91 TAL 184.72 TAP 58.34 RCA 100.03 APO 148.12 V2 34.964
 RC 161.027 GL 24.08 GP -23.77 ZAL 104.38 ZAP 151.46 ETS 309.03 ZAE 128.29 ETE 199.61 ZAC 138.94 ETC 188.71 CLP-163.74

PLANETOCENTRIC CONIC

C3 13.659 VHL 3.696 CLA 39.92 RAL 36.33 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 6.522 DPA -8.40 RAP 49.28 ECC 1.2248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.59 18 17 59 4070.96 -29.94 178.88 262.86 62.25 19 25 50 3471.0 -33.39 170.81
 119.41 1 0 2 2827.41 -29.93 84.26 262.85 62.24 1 47 9 2227.4 -33.38 76.20
 60.59 18 17 59 4070.96 -29.94 178.88 262.86 62.25 19 25 50 3471.0 -33.39 170.81
 119.41 1 0 2 2827.41 -29.93 84.26 262.85 62.24 1 47 9 2227.4 -33.38 76.20
 60.59 18 17 59 4070.96 -29.94 178.88 262.86 62.25 19 25 50 3471.0 -33.39 170.81
 119.41 1 0 2 2827.41 -29.93 84.26 262.85 62.24 1 47 9 2227.4 -33.38 76.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3806 TRA -.4729 TC3-6.0755 BAU 1.1113 SGT 5065.7 SGR 562.1 SG3 212.2 ST 2163.7 SR 496.7 SS 596.7
 RDE .3203 RRA .0168 RC3 -.3532 FAU .04615 RRT .7737 RRF .7978 RTF .9209 CRT .9871 CRS -.9911 CST -.9614
 FDE .6745 FRA .2540 FC3-2.9251 BSP 16079 SGB 5096.8 R23 .1291 R13 .9217 LSA 2292.3 MSA 171.8 SSA 20.9
 BDE 1.4173 BRA .4732 BC3 6.0857 FSP -692 SG1 5084.5 SG2 354.8 THA 4.93 EL1 2218.7 EL2 77.4 ALF 12.78

LAUNCH DATE FEB 22 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC
 RL 148.00 LAL .00 LOL 153.20 VL 26.856 GAL -.75 AZL 87.06 HCA 236.81 SMA 123.77 ECC .19612 INC 2.9406 V1 30.106
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.116 GAP 8.78 AZP 91.61 TAL 183.06 TAP 59.87 RCA 99.50 APO 148.05 V2 34.977
 RC 163.161 GL 22.26 GP -22.45 ZAL 101.67 ZAP 153.03 ETS 308.89 ZAE 128.66 ETE 198.60 ZAC 141.15 ETC 188.30 CLP-164.65

PLANETOCENTRIC CONIC
 C3 13.228 VHL 3.637 CLA 39.19 RAL 40.69 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 6.616 DPA -6.45 RAP 50.83 ECC 1.2177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.68 18 40 28 4049.51 -29.65 176.90 266.43 63.10 19 47 57 3449.5 -33.00 168.81
 118.32 1 12 19 2834.91 -29.64 84.72 266.42 63.08 1 59 33 2234.9 -32.99 76.63
 61.68 18 40 28 4049.51 -29.65 176.90 266.43 63.10 19 47 57 3449.5 -33.00 168.81
 118.32 1 12 19 2834.91 -29.64 84.72 266.42 63.08 1 59 33 2234.9 -32.99 76.63
 61.68 18 40 28 4049.51 -29.65 176.90 266.43 63.10 19 47 57 3449.5 -33.00 168.81
 118.32 1 12 19 2834.91 -29.64 84.72 266.42 63.08 1 59 33 2234.9 -32.99 76.63

DIFFERENTIAL CORRECTIONS
 TOE 1.3454 TRA -2.987 TC3-6.3838 BAU 1.1305
 ROE .3131 RRA .0277 RC3 -.3406 FAU .04436
 FOE .6130 FRA .3304 FC3-2.9036 BSP 16372
 BOE 1.3813 BRA .3000 BC3 6.3929 FSP -684

MID-COURSE EXECUTION ACCURACY
 SGT 5140.4 SGR 554.8 SG3 208.9
 RRT .7579 RRF .7734 RTF .9211
 SGB 5170.2 R23 .1101 R13 .9218
 SG1 5157.6 SG2 360.8 TMA 4.70

ORBIT DETERMINATION ACCURACY
 ST 2131.8 SR 493.6 SS 565.1
 CRT .9916 CRS -.9842 CST -.9580
 LSA 2253.9 MSA 164.6 SFA 23.2
 EL1 2187.3 EL2 62.4 ALF 12.94

LAUNCH DATE FEB 22 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC
 RL 148.00 LAL .00 LOL 153.20 VL 26.809 GAL -.34 AZL 87.31 HCA 240.00 SMA 123.48 ECC .19863 INC 2.6865 V1 30.106
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.094 GAP 9.05 AZP 91.34 TAL 181.39 TAP 61.38 RCA 98.95 APO 148.01 V2 34.990
 RC 165.276 GL 20.45 GP -21.26 ZAL 98.75 ZAP 154.49 ETS 308.60 ZAE 128.97 ETE 197.70 ZAC 143.37 ETC 187.90 CLP-165.56

PLANETOCENTRIC CONIC
 C3 12.929 VHL 3.596 CLA 38.44 RAL 45.14 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 6.723 DPA -4.64 RAP 52.46 ECC 1.2128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.85 19 3 48 4028.57 -29.27 174.94 270.23 63.89 20 10 56 3428.6 -32.52 166.83
 117.15 1 24 29 2846.00 -29.26 85.43 270.22 63.88 2 11 55 2246.0 -32.51 77.32
 62.85 19 3 48 4028.57 -29.27 174.94 270.23 63.89 20 10 56 3428.6 -32.52 166.83
 117.15 1 24 29 2846.00 -29.26 85.43 270.22 63.88 2 11 55 2246.0 -32.51 77.32
 62.85 19 3 48 4028.57 -29.27 174.94 270.23 63.89 20 10 56 3428.6 -32.52 166.83
 117.15 1 24 29 2846.00 -29.26 85.43 270.22 63.88 2 11 55 2246.0 -32.51 77.32

DIFFERENTIAL CORRECTIONS
 TOE 1.3051 TRA -1.143 TC3-6.6326 BAU 1.1479
 ROE .3079 RRA .0390 RC3 -.3270 FAU .04244
 FOE .5530 FRA .4050 FC3-2.8414 BSP 16619
 BOE 1.3410 BRA .1208 BC3 6.6407 FSP -672

MID-COURSE EXECUTION ACCURACY
 SGT 5208.7 SGR 549.9 SG3 205.0
 RRT .7415 RRF .7498 RTF .9214
 SGB 5237.6 R23 .0942 R13 .9219
 SG1 5224.7 SG2 367.8 TMA 4.50

ORBIT DETERMINATION ACCURACY
 ST 2085.7 SR 491.3 SS 532.8
 CRT .9952 CRS -.9735 CST -.9535
 LSA 2202.1 MSA 159.1 SSA 25.6
 EL1 2142.3 EL2 46.9 ALF 13.20

LAUNCH DATE FEB 22 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC
 RL 148.00 LAL .00 LOL 153.20 VL 26.762 GAL .07 AZL 87.55 HCA 243.19 SMA 123.19 ECC .20136 INC 2.4479 V1 30.106
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.073 GAP 9.32 AZP 91.10 TAL 179.71 TAP 62.90 RCA 98.39 APO 148.00 V2 35.003
 RC 167.370 GL 18.66 GP -20.20 ZAL 95.65 ZAP 155.84 ETS 308.17 ZAE 129.24 ETE 196.89 ZAC 145.61 ETC 187.51 CLP-166.45

PLANETOCENTRIC CONIC
 C3 12.760 VHL 3.572 CLA 37.63 RAL 49.66 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 6.843 DPA -2.95 RAP 54.19 ECC 1.2100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.11 19 28 10 4007.36 -28.78 172.93 274.23 64.64 20 34 57 3407.4 -31.94 164.82
 115.89 1 36 11 2861.56 -28.77 86.44 274.23 64.62 2 23 52 2261.6 -31.93 78.33
 64.11 19 28 10 4007.36 -28.78 172.93 274.23 64.64 20 34 57 3407.4 -31.94 164.82
 115.89 1 36 11 2861.56 -28.77 86.44 274.23 64.62 2 23 52 2261.6 -31.93 78.33
 64.11 19 28 10 4007.36 -28.78 172.93 274.23 64.64 20 34 57 3407.4 -31.94 164.82
 115.89 1 36 11 2861.56 -28.77 86.44 274.23 64.62 2 23 52 2261.6 -31.93 78.33

DIFFERENTIAL CORRECTIONS
 TOE 1.2598 TRA .0828 TC3-6.8082 BAU 1.1626
 ROE .3051 RRA .0516 RC3 -.3101 FAU .04022
 FOE .4980 FRA .4810 FC3-2.7288 BSP 16698
 BOE 1.2962 BRA .0976 BC3 6.8152 FSP -643

MID-COURSE EXECUTION ACCURACY
 SGT 5269.7 SGR 547.3 SG3 200.5
 RRT .7227 RRF .7278 RTF .9206
 SGB 5298.0 R23 .0856 R13 .9211
 SG1 5284.6 SG2 377.2 TMA 4.31

ORBIT DETERMINATION ACCURACY
 ST 2026.5 SR 490.5 SS 504.0
 CRT .9975 CRS -.9577 CST -.9476
 LSA 2139.2 MSA 157.0 SSA 27.9
 EL1 2084.8 EL2 33.5 ALF 13.58

LAUNCH DATE FEB 22 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC
 RL 148.00 LAL .00 LOL 153.20 VL 26.715 GAL .51 AZL 87.78 HCA 246.38 SMA 122.91 ECC .20433 INC 2.2223 V1 30.106
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.051 GAP 9.61 AZP 90.89 TAL 178.03 TAP 64.41 RCA 97.79 APO 148.02 V2 35.016
 RC 169.445 GL 16.88 GP -19.24 ZAL 92.41 ZAP 157.10 ETS 307.59 ZAE 129.48 ETE 196.15 ZAC 147.85 ETC 187.11 CLP-167.34

PLANETOCENTRIC CONIC
 C3 12.720 VHL 3.567 CLA 36.76 RAL 54.22 RAD 6567.5 VEL 11.580 PTH 2.03 VHP 6.973 DPA -1.39 RAP 55.98 ECC 1.2093
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.52 19 53 38 3985.32 -28.18 170.81 278.42 65.35 21 0 4 3385.3 -31.25 162.72
 114.48 1 47 5 2882.25 -28.16 87.80 278.41 65.34 2 35 7 2282.2 -31.24 79.71
 65.52 19 53 38 3985.32 -28.18 170.81 278.42 65.35 21 0 4 3385.3 -31.25 162.72
 114.48 1 47 5 2882.25 -28.16 87.80 278.41 65.34 2 35 7 2282.2 -31.24 79.71
 65.52 19 53 38 3985.32 -28.18 170.81 278.42 65.35 21 0 4 3385.3 -31.25 162.72
 114.48 1 47 5 2882.25 -28.16 87.80 278.41 65.34 2 35 7 2282.2 -31.24 79.71

DIFFERENTIAL CORRECTIONS
 TOE 1.1961 TRA .2780 TC3-6.9362 BAU 1.1807
 ROE .3015 RRA .0618 RC3 -.3005 FAU .03853
 FOE .4330 FRA .5401 FC3-2.6221 BSP 17133
 BOE 1.2335 BRA .2848 BC3 6.9427 FSP -649

MID-COURSE EXECUTION ACCURACY
 SGT 5336.8 SGR 544.0 SG3 196.2
 RRT .7097 RRF .7061 RTF .9238
 SGB 5364.5 R23 .0668 R13 .9242
 SG1 5350.8 SG2 382.3 TMA 4.16

ORBIT DETERMINATION ACCURACY
 ST 1934.4 SR 485.9 SS 463.8
 CRT .9979 CRS -.9342 CST -.9397
 LSA 2041.6 MSA 155.3 SSA 29.9
 EL1 1994.3 EL2 30.3 ALF 14.07

LAUNCH DATE FEB 22 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 508.683

RL 148.00 LAL .00 LOL 153.20 VL 26.668 GAL .96 AZL 87.99 MCA 249.58 SMA 122.63 ECC .20755 INC 2.0073 V1 30.106
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.031 GAP 9.91 AZP 90.70 TAL 176.34 TAP 65.92 RCA 97.17 APO 148.08 V2 35.030
 RC 171.498 GL 15.13 GP -18.38 ZAL 89.05 ZAP 158.27 ETS 306.86 ZAE 129.68 ETE 195.49 ZAC 150.11 ETC 186.69 CLP-168.21

PLANETOCENTRIC CONIC

C3 12.812 VHL 3.579 DLA 35.81 RAL 58.78 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 7.116 DPA .07 RAP 57.85 ECC 1.2109
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.10 20 20 22 3961.57 -27.45 168.54 282.74 66.04 21 26 24 3361.6 -30.44 160.47
 112.90 1 56 47 2909.08 -27.44 89.58 282.74 66.03 2 45 16 2309.1 -30.43 81.52
 67.10 20 20 22 3961.57 -27.45 168.54 282.74 66.04 21 26 24 3361.6 -30.44 160.47
 112.90 1 56 47 2909.08 -27.44 89.58 282.74 66.03 2 45 16 2309.1 -30.43 81.52
 67.10 20 20 22 3961.57 -27.45 168.54 282.74 66.04 21 26 24 3361.6 -30.44 160.47
 112.90 1 56 47 2909.08 -27.44 89.58 282.74 66.03 2 45 16 2309.1 -30.43 81.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1288 TRA .4935 TC3-6.9627 BAU 1.1936 SGT 5390.6 SGR 542.4 SG3 191.3 ST 1836.6 SR 482.5 SS 431.2
 RDE .3001 RRA .0747 RC3 -.2851 FAU .03643 RRT .6939 RRF .6867 RTF .9247 CRT .9953 CRS -.8997 CST -.9293
 FDE .3748 FRA .6070 FC3-2.4615 BSP 17249 SGB 5417.8 R23 .0578 R13 .9250 LSA 1940.3 MSA 161.0 SSA 31.0
 BDE 1.1681 BRA .4992 BC3 6.9685 FSP -627 SG1 5403.8 SG2 389.6 THA 4.02 EL1 1898.3 EL2 45.2 ALF 14.66

LAUNCH DATE FEB 22 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 514.371

RL 148.00 LAL .00 LOL 153.20 VL 26.622 GAL 1.43 AZL 88.20 MCA 252.78 SMA 122.35 ECC .21105 INC 1.8009 V1 30.106
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.010 GAP 10.22 AZP 90.53 TAL 174.65 TAP 67.44 RCA 96.53 APO 148.17 V2 35.043
 RC 173.532 GL 13.39 GP -17.60 ZAL 85.61 ZAP 159.37 ETS 305.95 ZAE 129.87 ETE 194.89 ZAC 152.38 ETC 186.25 CLP-169.07

PLANETOCENTRIC CONIC

C3 13.041 VHL 3.611 DLA 34.79 RAL 63.31 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 7.270 DPA 1.44 RAP 59.79 ECC 1.2146
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.88 20 48 33 3934.99 -26.61 166.02 287.18 66.71 21 54 8 3335.0 -29.53 157.99
 111.12 2 4 44 2943.30 -26.60 91.88 287.17 66.70 2 53 47 2343.3 -29.52 83.85
 68.88 20 48 33 3934.99 -26.61 166.02 287.18 66.71 21 54 8 3335.0 -29.53 157.99
 111.12 2 4 44 2943.30 -26.60 91.88 287.17 66.70 2 53 47 2343.3 -29.52 83.85
 68.88 20 48 33 3934.99 -26.61 166.02 287.18 66.71 21 54 8 3335.0 -29.53 157.99
 111.12 2 4 44 2943.30 -26.60 91.88 287.17 66.70 2 53 47 2343.3 -29.52 83.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0462 TRA .7154 TC3-6.9193 BAU 1.2073 SGT 5444.3 SGR 540.4 SG3 186.2 ST 1717.4 SR 477.2 SS 397.4
 RDE .2990 RRA .0876 RC3 -.2710 FAU .03448 RRT .6796 RRF .6680 RTF .9264 CRT .9877 CRS -.8485 CST -.9152
 FDE .3138 FRA .6680 FC3-2.2891 BSP 17455 SGB 5471.0 R23 .0478 R13 .9267 LSA 1817.7 MSA 173.0 SSA 31.2
 BDE 1.0881 BRA .7207 BC3 6.9246 FSP -614 SG1 5456.7 SG2 395.5 THA 3.88 EL1 1781.0 EL2 72.0 ALF 15.37

LAUNCH DATE FEB 22 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 520.035

RL 148.00 LAL .00 LOL 153.20 VL 26.577 GAL 1.92 AZL 88.40 MCA 255.99 SMA 122.08 ECC .21484 INC 1.6014 V1 30.106
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.990 GAP 10.54 AZP 90.39 TAL 172.97 TAP 68.95 RCA 95.85 APO 148.30 V2 35.056
 RC 175.544 GL 11.69 GP -16.89 ZAL 82.12 ZAP 160.40 ETS 304.87 ZAE 130.03 ETE 194.35 ZAC 154.66 ETC 185.77 CLP-169.92

PLANETOCENTRIC CONIC

C3 13.417 VHL 3.663 DLA 33.70 RAL 67.77 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 7.435 DPA 2.71 RAP 61.78 ECC 1.2208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.92 21 18 30 3904.10 -25.66 163.16 291.69 67.37 22 23 34 3304.1 -28.50 155.17
 109.08 2 10 21 2986.48 -25.65 94.81 291.69 67.36 3 0 7 2386.5 -28.49 86.82
 70.92 21 18 30 3904.10 -25.66 163.16 291.69 67.37 22 23 34 3304.1 -28.50 155.17
 109.08 2 10 21 2986.48 -25.65 94.81 291.69 67.36 3 0 7 2386.5 -28.49 86.82
 110.00 2 59 28 2836.28 -29.23 84.64 293.20 71.43 3 46 45 2236.3 -31.48 76.16
 110.00 1 32 29 3102.29 -22.19 102.08 289.95 63.31 2 24 11 2502.3 -25.59 94.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9517 TRA .9483 TC3-6.7964 BAU 1.2199 SGT 5494.1 SGR 538.4 SG3 181.1 ST 1588.9 SR 470.9 SS 368.3
 RDE .2988 RRA .1012 RC3 -.2561 FAU .03255 RRT .6657 RRF .6509 RTF .9282 CRT .9719 CRS -.7765 CST -.8986
 FDE .2543 FRA .7272 FC3-2.1004 BSP 17652 SGB 5520.4 R23 .0398 R13 .9284 LSA 1686.3 MSA 193.3 SSA 30.3
 BDE .9975 BRA .9537 BC3 6.8012 FSP -599 SG1 5505.8 SG2 400.9 THA 3.75 EL1 1653.8 EL2 106.5 ALF 16.14

LAUNCH DATE FEB 22 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 525.671

RL 148.00 LAL .00 LOL 153.20 VL 26.532 GAL 2.43 AZL 88.59 MCA 259.19 SMA 121.81 ECC .21895 INC 1.4072 V1 30.106
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.970 GAP 10.88 AZP 90.26 TAL 171.28 TAP 70.48 RCA 95.14 APO 148.48 V2 35.069
 RC 177.535 GL 10.04 GP -16.25 ZAL 78.62 ZAP 161.37 ETS 303.60 ZAE 130.18 ETE 193.86 ZAC 156.96 ETC 185.23 CLP-170.76

PLANETOCENTRIC CONIC

C3 13.950 VHL 3.735 DLA 32.54 RAL 72.12 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 7.613 DPA 3.90 RAP 63.82 ECC 1.2296
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.26 21 50 43 3866.73 -24.61 159.80 296.26 68.01 22 55 10 3266.7 -27.37 151.86
 106.74 2 12 49 3040.88 -24.60 98.52 296.25 68.00 3 3 30 2440.9 -27.36 90.59
 73.26 21 50 43 3866.73 -24.61 159.80 296.26 68.01 22 55 10 3266.7 -27.37 151.86
 106.74 2 12 49 3040.88 -24.60 98.52 296.25 68.00 3 3 30 2440.9 -27.36 90.59
 110.00 3 53 16 2731.14 -31.27 77.13 298.74 75.44 4 38 47 2131.1 -32.95 68.31
 110.00 1 13 22 3224.46 -18.27 109.39 292.98 60.60 2 7 7 2624.5 -22.05 102.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8492 TRA 1.1958 TC3-6.5882 BAU 1.2295 SGT 5536.3 SGR 536.4 SG3 175.9 ST 1464.6 SR 464.1 SS 346.6
 RDE .2997 RRA .1157 RC3 -.2395 FAU .03057 RRT .6525 RRF .6356 RTF .9298 CRT .9430 CRS -.6816 CST -.8826
 FDE .1976 FRA .7858 FC3-1.8970 BSP 17765 SGB 5562.3 R23 .0338 R13 .9307 LSA 1559.0 MSA 222.2 SSA 28.7
 BDE .9005 BRA 1.2014 BC3 6.5925 FSP -581 SG1 5547.5 SG2 405.6 THA 3.64 EL1 1529.2 EL2 147.9 ALF 16.80

LAUNCH DATE FEB 22 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 531.276

RL 148.00 LAL .00 LOL 153.20 VL 26.487 GAL 2.96 AZL 88.78 HCA 262.40 SMA 121.54 ECC .22341 INC 1.2170 V1 30.106
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.950 GAP 11.24 AZP 90.16 TAL 169.60 TAP 72.00 RCA 94.39 APO 148.70 V2 35.083
 RC 179.506 GL 8.44 GP -15.67 ZAL 75.15 ZAP 162.27 ETS 302.14 ZAE 130.32 ETE 193.41 ZAC 159.26 ETC 184.60 CLP-171.60

PLANETOCENTRIC CONIC

C3 14.655 VHL 3.828 DLA 31.32 RAL 76.32 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 7.804 DPA 5.00 RAP 65.91 ECC 1.2412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.01 22 26 8 3819.40 -23.47 155.70 300.84 68.63 23 29 47 3219.4 -26.16 147.82
 103.99 2 10 58 3110.01 -23.46 103.28 300.83 68.62 3 2 48 2510.0 -26.15 95.40
 76.01 22 26 8 3819.40 -23.47 155.70 300.84 68.63 23 29 47 3219.4 -26.16 147.82
 103.99 2 10 58 3110.01 -23.46 103.28 300.83 68.62 3 2 48 2510.0 -26.15 95.40
 110.00 4 35 13 2661.42 -32.35 71.98 303.82 78.31 5 19 34 2061.4 -33.62 62.98
 110.00 1 5 0 3315.99 -15.14 114.63 296.50 58.98 2 0 16 2716.0 -19.14 107.80

DIFFERENTIAL CORRECTIONS

TDE .7324 TRA 1.4517 TC3-6.3227 BAU 1.2396
 RDE .3009 RRA .1307 RC3 -.2233 FAU .02870
 FDE .1407 FRA .8412 FC3-1.6957 BSP 17942
 BDE .7918 BRA 1.4576 BC3 6.3267 FSP -567

MID-COURSE EXECUTION ACCURACY

SGT 5577.3 SGR 533.4 SG3 170.7
 RRT .6400 RRF .6209 RTF .9317
 SGB 5602.7 R23 .0280 R13 .9318
 SG1 5587.8 SG2 409.1 THA 3.52

ORBIT DETERMINATION ACCURACY

ST 1343.5 SR 455.6 SS 331.3
 CRT .8934 CRS -.5602 CST -.8694
 LSA 1433.3 MSA 259.3 SSA 26.7
 EL1 1405.1 EL2 195.7 ALF 17.20

LAUNCH DATE FEB 22 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 536.847

RL 148.00 LAL .00 LOL 153.20 VL 26.443 GAL 3.52 AZL 88.97 HCA 265.61 SMA 121.28 ECC .22825 INC 1.0295 V1 30.106
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.931 GAP 11.62 AZP 90.08 TAL 167.93 TAP 73.54 RCA 93.60 APO 148.97 V2 35.095
 RC 181.455 GL 6.91 GP -15.13 ZAL 71.73 ZAP 163.11 ETS 300.46 ZAE 130.44 ETE 193.00 ZAC 161.57 ETC 183.84 CLP-172.43

PLANETOCENTRIC CONIC

C3 15.550 VHL 3.943 DLA 30.07 RAL 80.36 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 8.009 DPA 6.03 RAP 68.05 ECC 1.2559
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.44 23 7 10 3753.74 -22.25 150.27 305.42 69.24 24 9 44 3153.7 -24.88 142.44
 100.56 2 2 10 3202.25 -22.24 109.69 305.42 69.22 2 55 32 2602.2 -24.86 101.86
 79.44 23 7 10 3753.74 -22.25 150.27 305.42 69.24 24 9 44 3153.7 -24.88 142.44
 100.56 2 2 10 3202.25 -22.24 109.69 305.42 69.22 2 55 32 2602.2 -24.86 101.86
 110.00 5 11 57 2606.90 -33.03 67.88 308.69 80.65 5 55 23 2006.9 -33.97 58.76
 110.00 1 0 30 3397.09 -12.24 119.13 300.22 57.83 1 57 7 2797.1 -16.40 112.50

DIFFERENTIAL CORRECTIONS

TDE .6055 TRA 1.7204 TC3-6.0005 BAU 1.2482
 RDE .3029 RRA .1462 RC3 -.2066 FAU .02689
 FDE .0854 FRA .8953 FC3-1.4969 BSP 18115
 BDE .6770 BRA 1.7266 BC3 6.0041 FSP -553

MID-COURSE EXECUTION ACCURACY

SGT 5613.7 SGR 529.6 SG3 165.5
 RRT .6281 RRF .6072 RTF .9336
 SGB 5638.6 R23 .0227 R13 .9337
 SG1 5623.6 SG2 411.4 THA 3.41

ORBIT DETERMINATION ACCURACY

ST 1243.0 SR 446.3 SS 324.5
 CRT .8143 CRS -.4203 CST -.8660
 LSA 1325.7 MSA 302.2 SSA 24.6
 EL1 1297.1 EL2 248.2 ALF 16.94

LAUNCH DATE FEB 22 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 542.378

RL 148.00 LAL .00 LOL 153.20 VL 26.399 GAL 4.10 AZL 89.16 HCA 268.83 SMA 121.03 ECC .23351 INC .8434 V1 30.106
 RP 107.94 LAP -.84 LOP 62.03 VP 36.911 GAP 12.02 AZP 90.02 TAL 166.26 TAP 75.09 RCA 92.77 APO 149.29 V2 35.108
 RC 183.384 GL 5.45 GP -14.65 ZAL 68.39 ZAP 163.90 ETS 298.55 ZAE 130.55 ETE 192.63 ZAC 163.88 ETC 182.90 CLP-173.25

PLANETOCENTRIC CONIC

C3 16.657 VHL 4.081 DLA 28.79 RAL 84.22 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 8.229 DPA 6.98 RAP 70.22 ECC 1.2741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.57 0 6 51 3639.81 -20.98 141.34 309.99 69.82 1 7 31 3039.8 -23.54 133.57
 95.43 1 37 10 3347.46 -20.97 119.92 309.98 69.81 2 32 57 2747.5 -23.53 112.14
 100.00 3 21 24 3012.41 -26.34 97.03 311.82 75.33 4 11 36 2412.4 -28.10 88.66
 100.00 1 5 18 3450.09 -15.80 125.17 307.68 64.29 2 2 48 2850.1 -19.13 117.96
 110.00 5 45 9 2562.36 -33.47 64.47 313.43 82.62 6 27 51 1962.4 -34.13 55.29
 110.00 0 58 2 3472.91 -9.46 123.24 304.03 57.00 1 55 55 2872.9 -13.74 116.76

DIFFERENTIAL CORRECTIONS

TDE .4699 TRA 2.0031 TC3-5.6328 BAU 1.2551
 RDE .3057 RRA .1624 RC3 -.1894 FAU .02511
 FDE .0326 FRA .9486 FC3-1.3052 BSP 18261
 BDE .5606 BRA 2.0096 BC3 5.6360 FSP -539

MID-COURSE EXECUTION ACCURACY

SGT 5645.4 SGR 525.1 SG3 160.4
 RRT .6168 RRF .5945 RTF .9355
 SGB 5669.8 R23 .0183 R13 .9356
 SG1 5654.8 SG2 412.7 THA 3.30

ORBIT DETERMINATION ACCURACY

ST 1175.1 SR 436.3 SS 326.6
 CRT .7001 CRS -.2763 CST -.8772
 LSA 1248.2 MSA 345.4 SSA 22.7
 EL1 1216.8 EL2 300.8 ALF 15.54

LAUNCH DATE FEB 22 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 547.864

RL 148.00 LAL .00 LOL 153.20 VL 26.356 GAL 4.72 AZL 89.34 HCA 272.04 SMA 120.78 ECC .23922 INC .6577 V1 30.106
 RP 107.90 LAP -.66 LOP 65.24 VP 36.892 GAP 12.44 AZP 89.98 TAL 164.60 TAP 76.65 RCA 91.88 APO 149.67 V2 35.120
 RC 185.291 GL 4.08 GP -14.21 ZAL 65.16 ZAP 164.63 ETS 296.40 ZAE 130.65 ETE 192.29 ZAC 166.19 ETC 181.67 CLP-174.08

PLANETOCENTRIC CONIC

C3 18.001 VHL 4.243 DLA 27.50 RAL 87.87 RAD 6567.7 VEL 11.806 PTH 2.09 VHP 8.466 DPA 7.86 RAP 72.43 ECC 1.2963
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 6 5 3317.74 -24.25 118.87 316.06 74.91 3 1 22 2717.7 -26.09 110.69
 90.00 0 7 5 3705.43 -15.21 143.66 312.64 65.83 1 8 50 3105.4 -18.35 136.39
 100.00 4 7 57 2924.87 -27.70 90.88 316.98 78.29 4 56 42 2324.9 -29.03 82.33
 100.00 0 47 54 3573.53 -12.02 132.39 311.05 62.42 1 47 27 2973.5 -15.62 125.45
 110.00 6 15 31 2525.63 -33.76 61.64 318.06 84.27 6 57 37 1925.6 -34.18 52.43
 110.00 0 56 49 3545.53 -6.75 127.11 307.89 56.41 1 55 54 2945.5 -11.12 120.75

DIFFERENTIAL CORRECTIONS

TDE .3292 TRA 2.3033 TC3-5.2257 BAU 1.2583
 RDE .3096 RRA .1793 RC3 -.1713 FAU .02331
 FDE -.0167 FRA 1.0029 FC3-1.1208 BSP 18322
 BDE .4519 BRA 2.3103 BC3 5.2285 FSP -522

MID-COURSE EXECUTION ACCURACY

SGT 5670.8 SGR 520.0 SG3 155.4
 RRT .6063 RRF .5833 RTF .9373
 SGB 5694.6 R23 .0151 R13 .9373
 SG1 5679.6 SG2 412.9 THA 3.20

ORBIT DETERMINATION ACCURACY

ST 1149.9 SR 426.0 SS 336.1
 CRT .5565 CRS -.1442 CST -.9003
 LSA 1212.9 MSA 380.8 SSA 20.9
 EL1 1176.4 EL2 346.0 ALF 12.77

LAUNCH DATE FEB 22 1969

FLIGHT TIME 190.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 26.313 GAL 5.37 AZL 89.53 HCA 275.26 SMA 120.53 ECC .24543 INC .4709 V1 30.106
 RP 107.87 LAP -.47 LOP 68.46 VP 36.873 GAP 12.89 AZP 89.96 TAL 162.96 TAP 78.22 RCA 90.95 APO 150.11 V2 35.132
 RC 187.175 GL 2.79 GP -13.80 ZAL 62.05 ZAP 165.30 ETS 293.99 ZAE 130.73 ETE 191.97 ZAC 168.50 ETC 179.97 CLP-174.90

PLANETOCENTRIC CONIC

C3 19.614 VHL 4.429 DLA 26.23 RAL 91.32 RAD 6567.8 VEL 11.874 PTH 2.11 VHP 8.721 DPA 8.67 RAP 74.68 ECC 1.3228
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 40 3218.72 -25.83 112.05 321.26 77.98 3 49 19 2618.7 -27.23 103.66
 90.00 23 41 3 3844.82 -11.17 151.90 315.92 63.81 24 45 8 3244.8 -14.60 144.90
 100.00 4 45 25 2864.88 -28.45 86.58 321.82 80.43 5 33 10 2264.9 -29.48 77.93
 100.00 0 37 55 3673.88 -8.80 138.10 314.68 61.32 1 39 9 3073.9 -12.56 131.33
 110.00 6 43 27 2495.58 -33.94 59.32 322.61 85.64 7 25 3 1895.6 -34.17 50.08
 110.00 0 56 22 3615.95 -4.08 130.82 311.79 56.03 1 56 38 3015.9 -8.51 124.54

DIFFERENTIAL CORRECTIONS

TDE .1778 TRA 2.6157 TC3-4.8077 BAU 1.2613
 RDE .3140 RRA .1964 RC3 -.1540 FAU .02162
 FDE -.0647 FRA 1.0556 FC3 -.9545 BSP 18453
 BDE .3608 BRA 2.6231 BC3 4.8101 FSP -508

MID-COURSE EXECUTION ACCURACY

SGT 5693.6 SGR 513.6 SG3 150.6
 RRT .5959 RRF .5723 RTF .9393
 SGB 5716.7 R23 .0120 R13 .9394
 SG1 5701.9 SG2 411.9 THA 3.09

ORBIT DETERMINATION ACCURACY

ST 1161.9 SR 415.0 SS 350.4
 CRT .3942 CRS -.0255 CST -.9270
 LSA 1217.6 MSA 402.5 SSA 19.4
 EL1 1174.7 EL2 377.2 ALF 8.95

LAUNCH DATE FEB 22 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 26.271 GAL 6.05 AZL 89.72 HCA 278.48 SMA 120.29 ECC .25219 INC .2822 V1 30.106
 RP 107.83 LAP -.28 LOP 71.68 VP 36.854 GAP 13.37 AZP 89.96 TAL 161.34 TAP 79.82 RCA 89.95 APO 150.62 V2 35.144
 RC 189.037 GL 1.59 GP -13.43 ZAL 59.08 ZAP 165.92 ETS 291.31 ZAE 130.80 ETE 191.68 ZAC 170.79 ETC 177.44 CLP-175.73

PLANETOCENTRIC CONIC

C3 21.533 VHL 4.640 DLA 24.97 RAL 94.55 RAD 6567.9 VEL 11.955 PTH 2.13 VHP 8.995 DPA 9.41 RAP 76.95 ECC 1.3544
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 33 46 3155.42 -26.65 107.60 326.09 80.07 4 26 21 2555.4 -27.75 99.11
 90.00 23 28 47 3952.77 -7.86 158.10 319.50 62.71 24 34 40 3352.8 -11.45 151.27
 100.00 5 17 48 2819.99 -28.92 83.32 326.50 82.09 6 4 48 2220.0 -29.71 74.61
 100.00 0 31 22 3763.44 -5.84 143.10 318.41 60.63 1 34 5 3163.4 -9.71 136.45
 110.00 7 9 11 2471.50 -34.05 57.44 327.08 86.74 7 50 23 1871.5 -34.12 48.20
 110.00 0 56 28 3684.69 -1.46 134.42 315.69 55.84 1 57 53 3084.7 -5.93 128.18

DIFFERENTIAL CORRECTIONS

TDE .0192 TRA 2.9443 TC3-4.3815 BAU 1.2620
 RDE .3192 RRA .2136 RC3 -.1370 FAU .01999
 FDE -.1106 FRA 1.1083 FC3 -.8035 BSP 18571
 BDE .3197 BRA 2.9521 BC3 4.3837 FSP -495

MID-COURSE EXECUTION ACCURACY

SGT 5711.2 SGR 506.1 SG3 145.9
 RRT .5858 RRF .5617 RTF .9415
 SGB 5733.6 R23 .0091 R13 .9415
 SG1 5718.9 SG2 409.6 THA 2.99

ORBIT DETERMINATION ACCURACY

ST 1209.5 SR 403.6 SS 368.0
 CRT .2352 CRS .0744 CST -.9504
 LSA 1262.6 MSA 408.2 SSA 18.1
 EL1 1213.6 EL2 391.0 ALF 5.01

LAUNCH DATE FEB 22 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 26.229 GAL 6.78 AZL 89.91 HCA 281.70 SMA 120.05 ECC .25956 INC .0896 V1 30.106
 RP 107.79 LAP -.09 LOP 74.91 VP 36.836 GAP 13.88 AZP 89.98 TAL 159.73 TAP 81.44 RCA 88.89 APO 151.21 V2 35.155
 RC 190.875 GL .48 GP -13.09 ZAL 56.26 ZAP 166.47 ETS 288.34 ZAE 130.86 ETE 191.41 ZAC 173.05 ETC 173.29 CLP-176.56

PLANETOCENTRIC CONIC

C3 23.804 VHL 4.879 DLA 23.74 RAL 97.58 RAD 6568.0 VEL 12.049 PTH 2.15 VHP 9.292 DPA 10.08 RAP 79.24 ECC 1.3918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 6 3 3109.66 -27.15 104.34 330.74 81.63 4 57 52 2509.7 -28.03 95.79
 90.00 23 20 40 4047.25 -4.87 163.44 323.20 62.07 24 28 7 3447.3 -8.57 156.72
 100.00 5 46 31 2785.70 -29.21 80.82 331.05 83.37 6 32 57 2185.7 -29.83 72.07
 100.00 0 26 48 3846.45 -3.05 147.68 322.19 60.25 1 30 54 3246.5 -6.99 141.11
 110.00 7 32 54 2452.89 -34.11 55.99 331.50 87.59 8 13 47 1852.9 -34.07 46.75
 110.00 0 56 55 3752.02 1.12 137.93 319.59 55.83 1 59 27 3152.0 -3.37 131.72

DIFFERENTIAL CORRECTIONS

TDE -.1461 TRA 3.2912 TC3-3.9574 BAU 1.2600
 RDE .3252 RRA .2310 RC3 -.1204 FAU .01840
 FDE -.1542 FRA 1.1619 FC3 -.6691 BSP 18669
 BDE .3565 BRA 3.2993 BC3 3.9593 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 5724.6 SGR 497.5 SG3 141.5
 RRT .5758 RRF .5517 RTF .9438
 SGB 5746.1 R23 .0067 R13 .9438
 SG1 5731.8 SG2 406.2 THA 2.88

ORBIT DETERMINATION ACCURACY

ST 1283.5 SR 392.1 SS 387.7
 CRT .0945 CRS .1548 CST -.9678
 LSA 1337.9 MSA 401.6 SSA 16.9
 EL1 1284.1 EL2 390.2 ALF 1.82

LAUNCH DATE FEB 22 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

RL 148.00 LAL .00 LOL 153.20 VL 26.188 GAL 7.55 AZL 90.11 HCA 284.93 SMA 119.82 ECC .26762 INC .1058 V1 30.106
 RP 107.76 LAP .10 LOP 78.13 VP 36.817 GAP 14.43 AZP 90.03 TAL 158.15 TAP 83.08 RCA 87.75 APO 151.88 V2 35.166
 RC 192.690 GL -.54 GP -12.78 ZAL 53.60 ZAP 166.96 ETS 285.07 ZAE 130.90 ETE 191.15 ZAC 175.24 ETC 165.29 CLP-177.40

PLANETOCENTRIC CONIC

C3 26.483 VHL 5.146 DLA 22.56 RAL 100.41 RAD 6568.1 VEL 12.160 PTH 2.18 VHP 9.614 DPA 10.69 RAP 81.55 ECC 1.4358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 22 3075.66 -27.46 101.90 335.26 82.81 5 25 37 2475.7 -28.17 93.31
 90.00 23 14 53 4133.80 -2.10 168.29 326.96 61.75 24 23 46 3533.8 -5.86 161.63
 100.00 6 12 20 2759.77 -29.40 78.91 335.50 84.36 6 58 19 2159.8 -29.87 70.14
 100.00 0 23 31 3924.92 -3.39 151.99 326.01 60.11 1 28 56 3324.9 -4.36 145.46
 110.00 7 54 45 2439.36 -34.14 54.94 335.86 88.22 8 35 24 1839.4 -34.01 45.70
 110.00 0 57 36 3818.10 3.64 141.38 323.49 55.99 2 1 14 3218.1 -.85 135.17

DIFFERENTIAL CORRECTIONS

TDE -.3145 TRA 3.6612 TC3-3.5381 BAU 1.2532
 RDE .3322 RRA .2486 RC3 -.1042 FAU .01679
 FDE -.1945 FRA 1.2177 FC3 -.5489 BSP 18676
 BDE .4575 BRA 3.6696 BC3 3.5396 FSP -465

MID-COURSE EXECUTION ACCURACY

SGT 5733.0 SGR 488.0 SG3 137.2
 RRT .5662 RRF .5427 RTF .9462
 SGB 5753.7 R23 .0052 R13 .9462
 SG1 5739.7 SG2 401.8 THA 2.77

ORBIT DETERMINATION ACCURACY

ST 1374.1 SR 380.7 SS 407.9
 CRT -.0193 CRS .2164 CST -.9794
 LSA 1431.3 MSA 388.2 SSA 15.9
 EL1 1374.1 EL2 380.6 ALF 179.67

LAUNCH DATE FEB 22 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 574.339

RL 148.00 LAL .00 LOL 153.20 VL 26.148 GAL 8.37 AZL 90.31 HCA 288.15 SMA 119.59 ECC .27643 INC .3088 V1 30.106
 RP 107.73 LAP .29 LOP 81.36 VP 36.798 GAP 15.03 AZP 90.10 TAL 156.60 TAP 84.76 RCA 86.53 APO 152.65 V2 35.177
 RC 194.480 GL -1.47 GP -12.50 ZAL 51.09 ZAP 167.38 ETS 281.50 ZAE 130.92 ETE 190.91 ZAC 177.19 ETC 145.27 CLP-178.25

PLANETOCENTRIC CONIC

C3 29.635 VHL 5.444 DLA 21.43 RAL 103.03 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 9.964 DPA 11.23 RAP 83.87 ECC 1.4877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 36 3050.62 -27.66 100.10 339.67 83.69 5 50 26 2450.6 -28.25 91.48
 90.00 23 10 36 4214.91 .52 172.81 330.75 61.69 24 20 50 3614.9 -3.27 166.18
 100.00 6 35 40 2740.83 -29.52 77.52 339.88 85.08 7 21 21 2140.8 -29.89 68.73
 100.00 0 21 8 3999.92 2.15 156.10 329.84 60.18 1 27 48 3399.9 -1.83 149.58
 110.00 8 14 51 2430.53 -34.16 54.25 340.18 88.63 8 55 22 1830.5 -33.97 45.01
 110.00 0 58 26 3883.00 6.10 144.79 327.39 56.30 2 3 9 3283.0 1.63 138.56

DIFFERENTIAL CORRECTIONS

TDE -.4934 TRA 4.0484 TC3-3.1402 BAU 1.2446
 RDE .3398 RRA .2656 RC3 -.0893 FAU .01528
 FDE -.2343 FRA 1.2736 FC3 -.4465 BSP 18757
 BOE .5991 BRA 4.0572 BC3 3.1415 FSP -453

MID-COURSE EXECUTION ACCURACY

SGT 5736.8 SGR 477.0 SG3 133.0
 RRT .5559 RRF .5330 RTF .9489
 SGB 5756.6 R23 .0036 R13 .9489
 SG1 5743.0 SG2 396.1 THA 2.66

ORBIT DETERMINATION ACCURACY

ST 1471.7 SR 368.9 SS 428.4
 CRT -.1137 CRS .2683 CST -.9869
 LSA 1532.1 MSA 371.4 SSA 15.0
 EL1 1472.3 EL2 366.3 ALF 178.26

LAUNCH DATE FEB 22 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 579.360

RL 148.00 LAL .00 LOL 153.20 VL 26.108 GAL 9.24 AZL 90.52 HCA 291.38 SMA 119.36 ECC .28610 INC .5195 V1 30.106
 RP 107.70 LAP .48 LOP 84.58 VP 36.779 GAP 15.68 AZP 90.19 TAL 155.09 TAP 86.47 RCA 85.21 APO 153.51 V2 35.187
 RC 196.245 GL -2.32 GP -12.23 ZAL 48.75 ZAP 167.73 ETS 277.62 ZAE 130.92 ETE 190.69 ZAC 178.01 ETC 90.84 CLP-179.11

PLANETOCENTRIC CONIC

C3 33.342 VHL 5.774 DLA 20.35 RAL 105.47 RAD 6568.3 VEL 12.438 PTH 2.25 VHP 10.346 DPA 11.72 RAP 86.20 ECC 1.5487
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 22 17 3032.90 -27.79 98.82 344.00 84.32 6 12 50 2432.9 -28.28 90.19
 90.00 23 7 20 4291.90 3.00 177.11 334.55 61.83 24 18 52 3691.9 -7.79 170.48
 100.00 6 56 51 2727.94 -29.59 76.56 344.19 85.58 7 42 19 2127.9 -29.89 67.77
 100.00 0 19 23 4072.10 4.59 160.08 333.67 60.43 1 27 15 3472.1 .62 153.54
 110.00 8 33 21 2426.06 -34.17 53.90 344.45 88.83 9 13 47 1826.1 -33.95 44.66
 110.00 0 59 23 3946.74 8.50 148.17 331.27 56.76 2 5 9 3346.7 4.06 141.89

DIFFERENTIAL CORRECTIONS

TDE -.6791 TRA 4.4593 TC3-2.7632 BAU 1.2322
 RDE .3483 RRA .2820 RC3 -.0754 FAU .01382
 FDE -.2726 FRA 1.3316 FC3 -.3589 BSP 18826
 BOE .7632 BRA 4.4682 BC3 2.7642 FSP -440

MID-COURSE EXECUTION ACCURACY

SGT 5736.6 SGR 464.8 SG3 129.0
 RRT .5451 RRF .5231 RTF .9518
 SGB 5755.4 R23 .0023 R13 .9518
 SG1 5742.3 SG2 389.3 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 1570.9 SR 357.0 SS 448.8
 CRT -.1887 CRS .3102 CST -.9916
 LSA 1634.4 MSA 353.7 SSA 14.2
 EL1 1572.4 EL2 350.2 ALF 177.42

LAUNCH DATE FEB 22 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 584.251

RL 148.00 LAL .00 LOL 153.20 VL 26.069 GAL 10.18 AZL 90.74 HCA 294.61 SMA 119.15 ECC .29672 INC .7397 V1 30.106
 RP 107.67 LAP .67 LOP 87.81 VP 36.761 GAP 16.38 AZP 90.31 TAL 153.62 TAP 88.23 RCA 83.79 APO 154.50 V2 35.196
 RC 197.986 GL -3.09 GP -11.99 ZAL 46.56 ZAP 168.01 ETS 273.45 ZAE 130.90 ETE 190.47 ZAC 176.73 ETC 46.76 CLP-179.99

PLANETOCENTRIC CONIC

C3 37.706 VHL 6.141 DLA 19.33 RAL 107.72 RAD 6568.5 VEL 12.612 PTH 2.29 VHP 10.763 DPA 12.14 RAP 88.53 ECC 1.6206
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 46 3021.39 -27.86 97.98 348.26 84.74 6 33 8 2421.4 -28.30 89.35
 90.00 23 4 49 4365.54 5.36 181.24 338.35 62.15 24 17 34 3765.5 1.59 174.59
 100.00 7 16 8 2720.34 -29.63 76.00 348.42 85.87 8 1 28 2120.3 -29.89 67.21
 100.00 0 18 4 4141.82 6.92 163.94 337.50 60.85 1 27 6 3541.8 2.98 157.37
 110.00 8 50 20 2425.62 -34.17 53.87 348.67 88.85 9 30 45 1825.6 -33.95 44.63
 110.00 1 0 22 4009.31 10.81 151.54 335.14 57.37 2 7 11 3409.3 6.43 145.18

DIFFERENTIAL CORRECTIONS

TDE -.8721 TRA 4.8963 TC3-2.4089 BAU 1.2147
 RDE .3575 RRA .2976 RC3 -.0625 FAU .01238
 FDE -.3096 FRA 1.3924 FC3 -.2842 BSP 18875
 BOE .9425 BRA 4.9054 BC3 2.4097 FSP -428

MID-COURSE EXECUTION ACCURACY

SGT 5731.8 SGR 451.4 SG3 125.2
 RRT .5335 RRF .5130 RTF .9549
 SGB 5749.6 R23 .0014 R13 .9549
 SG1 5736.9 SG2 381.5 THA 2.42

ORBIT DETERMINATION ACCURACY

ST 1667.2 SR 345.1 SS 468.8
 CRT -.2486 CRS .3441 CST -.9945
 LSA 1733.6 MSA 336.2 SSA 13.5
 EL1 1669.5 EL2 333.8 ALF 176.93

LAUNCH DATE FEB 22 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 588.986

RL 148.00 LAL .00 LOL 153.20 VL 26.031 GAL 11.19 AZL 90.97 HCA 297.84 SMA 118.93 ECC .30843 INC .9717 V1 30.106
 RP 107.64 LAP .86 LOP 91.05 VP 36.742 GAP 17.14 AZP 90.45 TAL 152.20 TAP 90.04 RCA 82.25 APO 155.62 V2 35.205
 RC 199.701 GL -3.79 GP -11.77 ZAL 44.54 ZAP 168.20 ETS 269.02 ZAE 130.85 ETE 190.26 ZAC 174.73 ETC 31.63 CLP 179.11

PLANETOCENTRIC CONIC

C3 42.852 VHL 6.546 DLA 18.37 RAL 109.80 RAD 6568.6 VEL 12.815 PTH 2.33 VHP 11.221 DPA 12.50 RAP 90.85 ECC 1.7052
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 19 3015.23 -27.90 97.54 352.44 84.96 6 51 34 2415.2 -28.31 88.90
 90.00 23 2 50 4436.29 7.59 185.24 342.15 62.64 24 16 46 3836.3 3.86 178.54
 100.00 7 33 40 2717.44 -29.65 75.79 352.59 85.98 8 18 57 2117.4 -29.89 66.99
 100.00 0 17 6 4209.31 9.14 167.72 341.32 61.41 1 27 16 3609.3 5.25 161.09
 110.00 9 5 54 2428.86 -34.16 54.12 352.84 88.70 9 46 23 1828.9 -33.96 44.88
 110.00 1 1 21 4070.65 13.04 154.89 339.00 58.12 2 9 12 3470.7 8.73 148.44

DIFFERENTIAL CORRECTIONS

TDE-1.0720 TRA 5.3656 TC3-2.0770 BAU 1.1903
 RDE .3679 RRA .3123 RC3 -.0506 FAU .01090
 FDE -.3444 FRA 1.4575 FC3 -.2203 BSP 18841
 BOE 1.1334 BRA 5.3747 BC3 2.0776 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 5723.8 SGR 437.0 SG3 121.6
 RRT .5209 RRF .5025 RTF .9581
 SGB 5740.4 R23 .0016 R13 .9581
 SG1 5728.3 SG2 372.8 THA 2.29

ORBIT DETERMINATION ACCURACY

ST 1758.1 SR 333.4 SS 488.2
 CRT -.2964 CRS .3706 CST -.9965
 LSA 1827.0 MSA 319.5 SSA 12.9
 EL1 1760.9 EL2 317.9 ALF 176.67

LAUNCH DATE FEB 22 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 593.532

RL 148.00 LAL .00 LOL 153.20 VL 25.994 GAL 12.28 AZL 91.22 HCA 301.07 SMA 118.73 ECC .32138 INC 1.2181 V1 30.106
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.724 GAP 17.99 AZP 90.63 TAL 150.83 TAP 91.91 RCA 80.57 APO 156.88 V2 35.213
 RC 201.391 GL -4.43 GP -11.56 ZAL 42.67 ZAP 168.30 ETS 264.35 ZAE 130.77 ETE 190.05 ZAC 172.59 ETC 25.10 CLP 178.19

PLANETOCENTRIC CONIC

C3 48.935 VHL 6.995 DLA 17.47 RAL 111.70 RAD 6568.8 VEL 13.050 PTH 2.38 VHP 11.727 DPA 12.80 RAP 93.16 ECC 1.8053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 7 3013.75 -27.91 97.43 356.53 85.01 7 8 20 2413.7 -28.31 88.79
 90.00 23 1 15 4504.41 9.70 189.13 345.93 63.27 24 16 19 3904.4 6.03 182.37
 100.00 7 49 36 2718.72 -29.64 75.88 356.69 85.94 8 34 55 2118.7 -29.89 67.09
 100.00 0 16 22 4274.67 11.24 171.43 345.12 62.12 1 27 37 3674.7 7.42 164.73
 110.00 9 20 8 2435.46 -34.15 54.63 356.95 88.40 10 0 43 1835.5 -33.99 45.39
 110.00 1 2 20 4130.70 15.17 158.24 342.84 59.00 2 11 10 3530.7 10.95 151.68

DIFFERENTIAL CORRECTIONS

TDE-1.2815 TRA 5.8625 TC3-1.7733 BAU 1.1604
 RDE .3789 RRA .3250 RC3 -.0401 FAU .00950
 FDE -.3802 FRA 1.9253 FC3 -.1680 BSP 18869
 BOE 1.3364 BRA 5.8715 BC3 1.7738 FSP -402

MID-COURSE EXECUTION ACCURACY

SGT 5709.4 SGR 421.1 SG3 118.1
 RRT .5067 RRF .4901 RTF .9616
 SGB 5724.9 R23 .0010 R13 .9616
 SGI 5713.4 S62 362.8 THA 2.15

ORBIT DETERMINATION ACCURACY

ST 1840.6 SR 321.5 SS 508.0
 CRT -.3367 CRS .3954 CST -.9977
 LSA 1912.4 MSA 303.3 SSA 12.2
 EL1 1843.9 EL2 302.2 ALF 176.54

LAUNCH DATE FEB 22 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 597.851

RL 148.00 LAL .00 LOL 153.20 VL 25.957 GAL 13.47 AZL 91.48 HCA 304.31 SMA 118.53 ECC .33572 INC 1.4820 V1 30.106
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.705 GAP 18.92 AZP 90.84 TAL 149.54 TAP 93.85 RCA 78.73 APO 158.32 V2 35.221
 RC 203.058 GL -5.00 GP -11.38 ZAL 40.96 ZAP 168.30 ETS 259.48 ZAE 130.65 ETE 189.85 ZAC 170.42 ETC 21.57 CLP 177.23

PLANETOCENTRIC CONIC

C3 58.151 VHL 7.493 DLA 16.63 RAL 113.44 RAD 6569.0 VEL 13.323 PTH 2.43 VHP 12.286 DPA 13.05 RAP 95.45 ECC 1.9241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 18 3016.36 -27.89 97.62 .54 84.92 7 23 34 2416.4 -28.31 88.98
 90.00 22 59 57 4570.02 11.68 192.93 349.68 64.02 24 16 7 3970.0 8.10 186.09
 100.00 8 4 3 2723.68 -29.62 76.25 .70 85.74 8 49 27 2123.7 -29.89 67.46
 100.00 0 15 48 4337.93 13.23 175.08 348.89 62.95 1 28 7 3737.9 9.50 168.28
 110.00 9 35 6 2445.06 -34.13 55.38 .99 87.96 10 13 51 1845.1 -34.04 46.14
 110.00 1 3 15 4189.32 17.20 161.57 346.65 59.99 2 13 4 3589.3 13.08 154.88

DIFFERENTIAL CORRECTIONS

TDE-1.5023 TRA 6.3959 TC3-1.4952 BAU 1.1227
 RDE .3910 RRA .3357 RC3 -.0308 FAU .00807
 FDE -.4156 FRA 1.5981 FC3 -.1245 BSP 18879
 BOE 1.5524 BRA 6.4047 BC3 1.4955 FSP -390

MID-COURSE EXECUTION ACCURACY

SGT 5691.3 SGR 404.1 SG3 114.7
 RRT .4903 RRF .4759 RTF .9652
 SGB 5705.7 R23 .0010 R13 .9652
 SGI 5694.8 S62 352.0 THA 2.00

ORBIT DETERMINATION ACCURACY

ST 1915.4 SR 309.6 SS 528.0
 CRT -.3715 CRS .4172 CST -.9985
 LSA 1990.1 MSA 287.6 SSA 11.6
 EL1 1918.9 EL2 286.9 ALF 176.49

LAUNCH DATE FEB 22 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 601.893

RL 148.00 LAL .00 LOL 153.20 VL 25.922 GAL 14.76 AZL 91.77 HCA 307.54 SMA 118.33 ECC .35167 INC 1.7671 V1 30.106
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.687 GAP 19.95 AZP 91.08 TAL 148.34 TAP 95.88 RCA 76.72 APO 159.95 V2 35.228
 RC 204.697 GL -5.51 GP -11.20 ZAL 39.40 ZAP 168.19 ETS 254.48 ZAE 130.49 ETE 189.64 ZAC 168.27 ETC 19.39 CLP 176.23

PLANETOCENTRIC CONIC

C3 64.752 VHL 8.047 DLA 15.86 RAL 115.02 RAD 6569.2 VEL 13.642 PTH 2.49 VHP 12.908 DPA 13.25 RAP 97.70 ECC 2.0656
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 46 59 3022.55 -27.86 98.07 4.44 84.70 7 37 21 2422.6 -28.30 89.43
 90.00 22 58 52 4633.14 13.54 196.64 353.38 64.89 24 16 5 4033.1 10.04 189.71
 100.00 8 17 6 2731.90 -29.57 76.86 4.61 85.43 9 2 38 2131.9 -29.89 68.07
 100.00 0 15 21 4399.03 15.09 178.66 352.61 63.89 1 28 40 3799.0 11.46 171.75
 110.00 9 44 51 2457.34 -34.10 56.34 4.95 87.39 10 25 49 1857.3 -34.08 47.10
 110.00 1 4 6 4246.35 19.11 164.89 350.42 61.10 2 14 52 3646.4 15.11 158.06

DIFFERENTIAL CORRECTIONS

TDE-1.7346 TRA 6.9705 TC3-1.2419 BAU 1.0753
 RDE .4042 RRA .3437 RC3 -.0227 FAU .00662
 FDE -.4511 FRA 1.6770 FC3 -.0885 BSP 18878
 BOE 1.7811 BRA 6.9789 BC3 1.2421 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 5669.3 SGR 385.9 SG3 111.5
 RRT .4710 RRF .4592 RTF .9688
 SGB 5682.4 R23 .0014 R13 .9688
 SGI 5672.3 S62 340.2 THA 1.84

ORBIT DETERMINATION ACCURACY

ST 1981.1 SR 297.8 SS 548.5
 CRT -.4022 CRS .4371 CST -.9990
 LSA 2059.1 MSA 272.6 SSA 11.0
 EL1 1984.8 EL2 272.1 ALF 176.47

LAUNCH DATE FEB 22 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 605.593

RL 148.00 LAL .00 LOL 153.20 VL 25.888 GAL 16.18 AZL 92.08 HCA 310.77 SMA 118.15 ECC .36948 INC 2.0783 V1 30.106
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.669 GAP 21.09 AZP 91.36 TAL 147.23 TAP 98.01 RCA 74.49 APO 161.80 V2 35.235
 RC 206.313 GL -5.97 GP -11.04 ZAL 38.00 ZAP 167.97 ETS 249.41 ZAE 130.28 ETE 189.44 ZAC 166.15 ETC 17.92 CLP 175.18

PLANETOCENTRIC CONIC

C3 75.057 VHL 8.664 DLA 15.15 RAL 116.44 RAD 6569.5 VEL 14.015 PTH 2.56 VHP 13.604 DPA 13.40 RAP 99.92 ECC 2.2352
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 14 3031.86 -27.80 98.74 8.23 84.36 7 49 46 2431.9 -28.29 90.11
 90.00 22 57 55 4693.71 15.26 200.26 357.02 65.85 24 16 9 4093.7 11.87 193.22
 100.00 8 28 49 2742.97 -29.51 77.67 8.41 85.00 9 14 32 2143.0 -29.89 68.89
 100.00 0 14 58 4457.84 16.82 182.17 356.27 64.92 1 29 15 3857.8 13.30 175.15
 110.00 9 55 26 2471.96 -34.04 57.48 8.80 86.72 10 36 38 1872.0 -34.12 48.24
 110.00 1 4 50 4301.61 20.89 168.19 354.13 62.31 2 16 32 3701.6 17.02 161.20

DIFFERENTIAL CORRECTIONS

TDE-1.9766 TRA 7.5947 TC3-1.0104 BAU 1.0140
 RDE .4189 RRA .3485 RC3 -.0158 FAU .00505
 FDE -.4864 FRA 1.7639 FC3 -.0583 BSP 18776
 BOE 2.0205 BRA 7.6027 BC3 1.0105 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 5643.6 SGR 366.8 SG3 108.4
 RRT .4483 RRF .4393 RTF .9725
 SGB 5655.5 R23 .0021 R13 .9725
 SGI 5646.0 S62 327.7 THA 1.67

ORBIT DETERMINATION ACCURACY

ST 2036.8 SR 286.2 SS 569.7
 CRT -.4295 CRS .4553 CST -.9994
 LSA 2118.5 MSA 258.2 SSA 10.5
 EL1 2040.5 EL2 258.0 ALF 176.49

LAUNCH DATE FEB 22 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 608.868

RL 148.00 LAL .00 LOL 153.20 VL 25.855 GAL 17.74 AZL 92.42 HCA 314.01 SMA 117.97 ECC .38942 INC 2.4214 V1 30.106
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.652 GAP 22.38 AZP 91.68 TAL 146.25 TAP 100.26 RCA 72.03 APO 163.91 V2 35.246
 RC 207.904 GL -6.39 GP -10.88 ZAL 36.76 ZAP 167.62 ETS 244.33 ZAE 130.00 ETE 189.22 ZAC 164.08 ETC 16.89 CLP 174.07

PLANETOCENTRIC CONIC

C3 87.482 VHL 9.353 OLA 14.51 RAL 117.70 RAD 6569.7 VEL 14.451 PTH 2.62 VHP 14.385 DPA 13.51 RAP 102.08 ECC 2.4397
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 6 3043.88 -27.71 99.61 11.87 83.93 8 0 50 2443.9 -28.26 90.99
 90.00 22 57 4 4751.55 16.84 203.77 .56 66.89 24 16 16 4151.6 13.56 196.62
 100.00 8 39 13 2756.50 -29.43 78.67 12.07 84.48 9 25 9 2156.5 -29.88 69.90
 100.00 0 14 34 4514.17 18.41 185.60 359.83 66.03 1 29 49 3914.2 15.02 178.45
 110.00 10 4 50 2488.60 -33.97 58.77 12.52 85.95 10 46 19 1888.6 -34.16 49.53
 110.00 1 5 27 4354.84 22.54 171.44 357.76 63.60 2 18 1 3754.8 18.81 164.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.2373 TRA 8.2670 TC3 -.8039 BAU .9403 SGT 5612.8 SGR 346.5 SG3 105.5 ST 2084.0 SR 274.6 SS 592.8
 RDE .4350 RRA .3487 RC3 -.0100 FAU .00344 RRT .4202 RRF .4139 RTF .9760 CRT -.4567 CRS .4750 CST -.9996
 FDE -.5241 FRA 1.8583 FC3 -.0340 BSP 18767 SGB 5623.4 R23 .0028 R13 .9760 LSA 2170.3 MSA 244.0 SSA 9.9
 BDE 2.2792 BRA 8.2744 BC3 .8040 FSP -357 SG1 5614.7 SG2 314.3 THA 1.49 EL1 2087.8 EL2 243.8 ALF 176.51

LAUNCH DATE FEB 22 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 611.611

RL 148.00 LAL .00 LOL 153.20 VL 25.824 GAL 19.48 AZL 92.80 HCA 317.24 SMA 117.80 ECC .41185 INC 2.8043 V1 30.106
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.634 GAP 23.83 AZP 92.06 TAL 145.41 TAP 102.65 RCA 69.28 APO 166.31 V2 35.246
 RC 209.470 GL -6.75 GP -10.74 ZAL 35.69 ZAP 167.14 ETS 239.29 ZAE 129.64 ETE 189.00 ZAC 162.07 ETC 16.13 CLP 172.89

PLANETOCENTRIC CONIC

C3 102.571 VHL 10.128 OLA 13.93 RAL 118.78 RAD 6570.0 VEL 14.964 PTH 2.70 VHP 15.268 DPA 13.57 RAP 104.17 ECC 2.6881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 19 36 3058.24 -27.60 100.65 15.35 83.42 8 10 34 2458.2 -28.23 92.04
 90.00 22 56 15 4806.46 18.27 207.16 3.97 67.98 24 16 21 4206.5 15.12 199.90
 100.00 8 48 18 2772.15 -29.32 79.82 15.57 83.89 9 34 31 2172.2 -29.85 71.06
 100.00 0 14 10 4567.77 19.86 188.92 3.27 67.19 1 30 17 3967.8 16.60 181.64
 110.00 10 13 4 2506.94 -33.87 60.20 16.08 85.12 10 54 51 1906.9 -34.18 50.97
 110.00 1 5 53 4405.75 24.05 174.62 1.27 64.94 2 19 19 3805.7 20.47 167.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.5145 TRA 8.9996 TC3 -.6187 BAU .8484 SGT 5577.6 SGR 325.4 SG3 102.6 ST 2121.7 SR 263.3 SS 617.9
 RDE .4531 RRA .3434 RC3 -.0055 FAU .00166 RRT .3853 RRF .3819 RTF .9795 CRT -.4836 CRS .4954 CST -.9998
 FDE -.5635 FRA 1.9629 FC3 -.0140 BSP 18734 SGB 5587.1 R23 .0037 R13 .9795 LSA 2213.5 MSA 230.1 SSA 9.3
 BDE 2.5550 BRA 9.0062 BC3 .6187 FSP -348 SG1 5579.1 SG2 300.2 THA 1.29 EL1 2125.5 EL2 230.0 ALF 176.53

LAUNCH DATE FEB 22 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 613.681

RL 148.00 LAL .00 LOL 153.20 VL 25.794 GAL 21.42 AZL 93.24 HCA 320.48 SMA 117.64 ECC .43716 INC 3.2372 V1 30.106
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.618 GAP 25.48 AZP 92.50 TAL 144.75 TAP 105.23 RCA 66.21 APO 169.07 V2 35.250
 RC 211.012 GL -7.08 GP -10.60 ZAL 34.79 ZAP 166.52 ETS 234.35 ZAE 129.19 ETE 188.76 ZAC 160.14 ETC 15.57 CLP 171.63

PLANETOCENTRIC CONIC

C3 121.044 VHL 11.002 OLA 13.42 RAL 119.69 RAD 6570.3 VEL 15.569 PTH 2.77 VHP 16.272 DPA 13.61 RAP 106.17 ECC 2.9921
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 27 42 3074.59 -27.47 101.83 18.63 82.85 8 18 57 2474.6 -28.18 93.23
 90.00 22 55 25 4858.11 19.56 210.40 7.22 69.10 24 16 23 4258.1 16.54 203.03
 100.00 8 56 4 2789.62 -29.18 81.10 18.87 83.22 9 42 34 2189.6 -29.82 72.36
 100.00 0 13 40 4618.32 21.16 192.11 6.55 68.38 1 30 39 4018.3 18.04 184.70
 110.00 10 20 5 2526.71 -33.75 61.73 19.46 84.22 11 2 12 1926.7 -34.18 52.51
 110.00 1 6 8 4454.00 25.40 177.72 4.63 66.32 2 20 22 3854.0 21.98 170.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.8098 TRA 9.8007 TC3 -.4531 BAU .7333 SGT 5537.9 SGR 303.8 SG3 100.0 ST 2149.4 SR 252.3 SS 645.6
 RDE .4736 RRA .3313 RC3 -.0020 FAU-.00035 RRT .3413 RRF .3407 RTF .9828 CRT -.5110 CRS .5173 CST -.9999
 FDE -.6051 FRA 2.0798 FC3 .0025 BSP 18678 SGB 5546.2 R23 .0047 R13 .9828 LSA 2248.0 MSA 216.5 SSA 8.8
 BDE 2.8494 BRA 9.8063 BC3 .4531 FSP -338 SG1 5538.9 SG2 285.5 THA 1.08 EL1 2153.3 EL2 230.0 ALF 176.53

LAUNCH DATE FEB 22 1969

FLIGHT TIME 220.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 614.892

RL 148.00 LAL .00 LOL 153.20 VL 25.767 GAL 23.61 AZL 93.73 HCA 323.71 SMA 117.50 ECC .46583 INC 3.7337 V1 30.106
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.602 GAP 27.36 AZP 93.01 TAL 144.32 TAP 108.02 RCA 62.76 APO 172.23 V2 35.254
 RC 212.528 GL -7.36 GP -10.47 ZAL 34.08 ZAP 165.73 ETS 229.55 ZAE 128.64 ETE 188.50 ZAC 158.32 ETC 15.16 CLP 170.25

PLANETOCENTRIC CONIC

C3 143.865 VHL 11.994 OLA 12.98 RAL 120.42 RAD 6570.6 VEL 16.285 PTH 2.85 VHP 17.420 DPA 13.62 RAP 108.07 ECC 3.3676
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 34 21 3092.68 -27.31 103.13 21.67 82.22 8 25 54 2492.7 -28.11 94.55
 90.00 22 54 31 4906.15 20.69 213.47 10.26 70.23 24 16 17 4306.1 17.81 205.98
 100.00 9 2 26 2808.63 -29.02 82.49 21.93 82.51 9 49 15 2208.6 -29.76 73.77
 100.00 0 13 3 4665.43 22.32 195.13 9.62 69.58 1 30 49 4065.4 19.33 187.61
 110.00 10 25 51 2547.64 -33.59 63.34 22.60 83.28 11 8 18 1947.6 -34.16 54.15
 110.00 1 6 8 4499.18 26.61 180.68 7.78 67.70 2 21 8 3899.2 23.35 173.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.1216 TRA10.6833 TC3 -.3053 BAU .5871 SGT 5494.4 SGR 282.1 SG3 97.5 ST 2166.2 SR 241.8 SS 676.3
 RDE .4972 RRA .3105 RC3 .0005 FAU-.00272 RRT .2853 RRF .2873 RTF .9859 CRT -.5390 CRS .5407 CST -.9999
 FDE -.6489 FRA 2.2121 FC3 .0163 BSP 18516 SGB 5501.6 R23 .0057 R13 .9859 LSA 2273.1 MSA 203.3 SSA 8.2
 BDE 3.1609 BRA10.6878 BC3 .3053 FSP -328 SG1 5494.9 SG2 270.3 THA .84 EL1 2170.2 EL2 203.3 ALF 176.53

LAUNCH DATE FEB 23 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 4 1969

HELIOCENTRIC CONIC

DISTANCE 189.781

RL 148.03 LAL -1.00 LOL 154.21 VL 27.448 GAL -9.27 AZL 88.99 HCA 85.05 SMA 127.65 ECC .22533 INC 1.0052 V1 30.099
 RP 108.43 LAP 1.00 LOP 239.26 VP 37.525 GAP -9.77 AZP 89.91 TAL 216.35 TAP 301.40 RCA 98.88 APO 156.41 V2 34.948
 RC 55.282 GL 4.79 GP 17.34 ZAL 147.65 ZAP 23.86 ETS 318.03 ZAE 146.68 ETE 20.80 ZAC 127.26 ETC 148.80 CLP -16.65

PLANETOCENTRIC CONIC

C3 32.447 VHL 5.696 CLA 6.87 RAL 3.83 RAD 6568.3 VEL 12.402 PTH 2.24 VHP 7.207 DPA 29.97 RAP 33.89 ECC 1.5340
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 50 2548.17 -26.02 63.75 235.84 101.59 1 17 18 1948.2 -24.16 55.58
 90.00 14 16 0 4762.91 17.14 204.47 231.66 67.11 15 35 23 4162.9 13.89 197.29
 100.00 1 59 28 2275.22 -27.29 43.37 235.54 102.71 2 37 23 1675.2 -25.26 35.16
 100.00 15 34 3 4511.09 18.33 185.41 231.12 65.96 16 49 15 3911.1 14.93 178.27
 110.00 3 15 13 2038.17 -30.70 24.38 234.54 105.84 3 49 11 1438.2 -28.22 16.06
 110.00 16 34 48 4320.91 21.50 169.36 229.50 62.76 17 46 49 3720.9 17.68 162.31

DIFFERENTIAL CORRECTIONS

TDE -.1743 TRA -.2942 TC3 .4363 BAU .2077
 RDE -.3373 RRA .2358 RC3 .1971 FAU .04800
 FDE -.2257 FRA -.4195 FC3-1.2808 BSP 1728
 BDE .3797 BRA .3770 BC3 .4787 FSP -345

MID-COURSE EXECUTION ACCURACY

SGT 605.5 SGR 471.8 SG3 132.8
 RRT .3497 RRF -.4858 RTF -.6005
 SGB 767.6 R23 -.0925 R13 -.6624
 SG1 646.4 SG2 414.1 THA 27.11

ORBIT DETERMINATION ACCURACY

ST 197.4 SR 346.8 SS 164.4
 CRT .7768 CRS -.7381 CST -.9700
 LSA 407.3 MSA 139.6 SSA 30.1
 EL1 382.9 EL2 112.6 ALF 63.70

LAUNCH DATE FEB 23 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 196.533

RL 148.03 LAL -1.00 LOL 154.21 VL 27.586 GAL -9.21 AZL 89.18 HCA 88.23 SMA 128.58 ECC .21881 INC .8199 V1 30.099
 RP 108.47 LAP .82 LOP 242.44 VP 37.614 GAP -8.91 AZP 89.97 TAL 217.78 TAP 306.01 RCA 100.45 APO 156.72 V2 34.936
 RC 57.109 GL 3.98 GP 18.52 ZAL 148.93 ZAP 26.76 ETS 321.34 ZAE 146.30 ETE 23.35 ZAC 126.72 ETC 147.98 CLP -19.68

PLANETOCENTRIC CONIC

C3 31.467 VHL 5.610 CLA 5.66 RAL 3.05 RAD 6568.3 VEL 12.363 PTH 2.23 VHP 6.775 DPA 31.11 RAP 33.52 ECC 1.5179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 41 0 2502.16 -25.35 60.55 233.99 103.06 1 22 42 1902.2 -23.30 52.48
 90.00 14 3 38 4793.48 17.94 206.35 230.58 67.72 15 23 32 4193.5 14.76 199.12
 100.00 2 5 1 2231.16 -26.59 40.28 233.66 104.19 2 42 13 1631.2 -24.38 32.18
 100.00 15 22 18 4539.72 19.11 187.17 230.05 66.57 16 37 58 3939.7 15.78 179.96
 110.00 3 19 24 1998.38 -29.92 21.54 232.59 107.35 3 52 42 1398.4 -27.26 13.37
 110.00 16 24 25 4345.26 22.25 170.85 228.49 63.36 17 36 50 3745.3 18.50 163.73

DIFFERENTIAL CORRECTIONS

TDE -.1623 TRA -.2845 TC3 .4534 BAU .2148
 RDE -.3216 RRA .2478 RC3 .2346 FAU .05279
 FDE -.2895 FRA -.4881 FC3-1.4524 BSP 1785
 BDE .3602 BRA .3773 BC3 .5105 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 609.5 SGR 491.8 SG3 149.5
 RRT .3806 RRF -.5397 RTF -.6007
 SGB 783.2 R23 -.1079 R13 -.6800
 SG1 661.7 SG2 418.9 THA 30.20

ORBIT DETERMINATION ACCURACY

ST 188.1 SR 337.3 SS 196.3
 CRT .7547 CRS -.7540 CST -.9741
 LSA 406.8 MSA 145.7 SSA 30.9
 EL1 369.4 EL2 112.7 ALF 64.65

LAUNCH DATE FEB 23 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 203.261

RL 148.03 LAL -1.00 LOL 154.21 VL 27.706 GAL -9.15 AZL 89.36 HCA 91.42 SMA 129.42 ECC .21318 INC .6354 V1 30.099
 RP 108.51 LAP .64 LOP 245.62 VP 37.692 GAP -8.10 AZP 90.02 TAL 219.10 TAP 310.52 RCA 101.83 APO 157.01 V2 34.923
 RC 59.010 GL 3.14 GP 19.80 ZAL 150.08 ZAP 29.89 ETS 324.18 ZAE 146.08 ETE 26.23 ZAC 125.98 ETC 147.22 CLP -22.86

PLANETOCENTRIC CONIC

C3 30.646 VHL 5.536 CLA 4.46 RAL 2.40 RAD 6568.2 VEL 12.330 PTH 2.22 VHP 6.376 DPA 32.29 RAP 32.93 ECC 1.5044
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 29 2457.88 -24.63 57.50 232.38 104.43 1 28 27 1857.9 -22.41 49.54
 90.00 13 51 58 4824.49 18.73 208.29 229.71 68.36 15 12 23 4224.5 15.62 200.98
 100.00 2 10 55 2188.75 -25.85 37.35 232.02 105.56 2 47 24 1588.7 -23.46 29.36
 100.00 15 11 13 4568.85 19.89 188.98 229.21 67.22 16 27 22 3968.9 16.63 181.71
 110.00 3 23 58 1960.12 -29.12 18.86 230.89 108.76 3 56 38 1360.1 -26.28 10.82
 110.00 16 14 39 4370.24 23.01 172.39 227.69 63.99 17 27 30 3770.2 19.32 165.19

DIFFERENTIAL CORRECTIONS

TDE -.1496 TRA -.2767 TC3 .4652 BAU .2219
 RDE -.3037 RRA .2614 RC3 .2772 FAU .05810
 FDE -.3647 FRA -.5634 FC3-1.6413 BSP 1870
 BDE .3385 BRA .3807 BC3 .5416 FSP -455

MID-COURSE EXECUTION ACCURACY

SGT 609.8 SGR 516.3 SG3 168.1
 RRT .4090 RRF -.5949 RTF -.5980
 SGB 799.0 R23 -.1218 R13 -.7001
 SG1 677.0 SG2 424.4 THA 33.89

ORBIT DETERMINATION ACCURACY

ST 177.9 SR 324.8 SS 231.3
 CRT .7233 CRS -.7616 CST -.9739
 LSA 408.0 MSA 152.3 SSA 31.4
 EL1 352.6 EL2 113.1 ALF 65.73

LAUNCH DATE FEB 23 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 209.963

RL 148.03 LAL -1.00 LOL 154.21 VL 27.811 GAL -9.10 AZL 89.55 HCA 94.60 SMA 130.16 ECC .20833 INC .4505 V1 30.099
 RP 108.55 LAP .45 LOP 248.80 VP 37.758 GAP -7.33 AZP 90.04 TAL 220.31 TAP 314.91 RCA 103.05 APO 157.28 V2 34.911
 RC 60.976 GL 2.26 GP 21.21 ZAL 151.10 ZAP 33.24 ETS 326.68 ZAE 145.98 ETE 29.48 ZAC 125.03 ETC 146.56 CLP -26.21

PLANETOCENTRIC CONIC

C3 29.955 VHL 5.473 CLA 3.28 RAL 1.88 RAD 6568.2 VEL 12.302 PTH 2.22 VHP 6.011 DPA 33.51 RAP 32.08 ECC 1.4930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 17 2415.15 -23.88 54.60 231.01 105.69 1 34 32 1815.1 -21.49 46.74
 90.00 13 41 0 4855.77 19.50 210.25 229.06 69.05 15 1 56 4255.8 16.48 202.88
 100.00 2 17 9 2147.84 -25.07 34.56 230.63 106.84 2 52 57 1547.8 -22.53 26.69
 100.00 15 0 49 4598.31 20.66 190.84 228.58 67.90 16 17 27 3998.3 17.48 183.49
 110.00 3 28 55 1923.25 -28.28 16.31 229.43 110.05 4 0 58 1323.2 -25.29 8.42
 110.00 16 5 33 4395.66 23.76 173.99 227.11 64.67 17 18 48 3795.7 20.15 166.70

DIFFERENTIAL CORRECTIONS

TDE -.1394 TRA -.2741 TC3 .4675 BAU .2279
 RDE -.2835 RRA .2763 RC3 .3246 FAU .06381
 FDE -.4496 FRA -.6417 FC3-1.8441 BSP 1923
 BDE .3159 BRA .3892 BC3 .5692 FSP -518

MID-COURSE EXECUTION ACCURACY

SGT 604.8 SGR 546.1 SG3 188.3
 RRT .4294 RRF -.6491 RTF -.5849
 SGB 814.9 R23 -.1365 R13 -.7194
 SG1 691.3 SG2 431.5 THA 38.31

ORBIT DETERMINATION ACCURACY

ST 170.2 SR 309.4 SS 267.9
 CRT .6831 CRS -.7614 CST -.9703
 LSA 412.6 MSA 158.8 SSA 31.6
 EL1 333.8 EL2 115.2 ALF 66.43

LAUNCH DATE FEB 23 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 216.637

RL 148.03 LAL -0.00 LOL 154.21 VL 27.902 GAL -9.06 AZL 89.74 HCA 97.77 SMA 130.81 ECC .20416 INC .2640 V1 30.099
 RP 108.58 LAP .26 LOP 251.98 VP 37.814 GAP -6.60 AZP 90.04 TAL 221.39 TAP 319.17 RCA 104.10 APO 157.52 V2 34.900
 RC 63.000 GL 1.34 GP 22.73 ZAL 151.98 ZAP 36.80 ETS 328.96 ZAE 145.97 ETE 33.18 ZAC 123.85 ETC 146.01 CLP -29.76

PLANETOCENTRIC CONIC

C3 29.367 VHL 5.419 DLA 2.11 RAL 1.48 RAD 6568.2 VEL 12.278 PTH 2.21 VHP 5.679 DPA 34.76 RAP 30.96 ECC 1.4833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 26 2373.75 -23.09 51.82 229.85 106.87 1 41 0 1773.8 -20.56 44.06
 90.00 13 30 42 4887.23 20.25 212.26 228.61 69.78 14 52 9 4287.2 17.32 204.81
 100.00 2 23 46 2108.22 -24.26 31.89 229.45 108.02 2 58 54 1508.2 -21.57 24.13
 100.00 14 51 3 4628.00 21.41 192.72 228.14 68.62 16 8 11 4028.0 18.31 185.30
 110.00 3 34 15 1887.57 -27.42 13.89 228.20 111.25 4 5 43 1287.6 -24.29 6.13
 110.00 15 57 3 4421.41 24.50 175.62 226.72 65.38 17 10 45 3821.4 20.97 168.25

DIFFERENTIAL CORRECTIONS

TDE -.1311 TRA -.2759 TC3 .4606 BAU .2338
 RDE -.2603 RRA .2926 RC3 .3776 FAU .06991
 FDE -.5458 FRA -.7229 FC3-2.0610 BSP 1975
 BDE .2915 BRA .4022 BC3 .5956 FSP -587

MID-COURSE EXECUTION ACCURACY

SGT 594.7 SGR 582.3 SG3 210.0
 RRT .4392 RRF -.7010 RTF -.5618
 SGB 832.3 R23 -.1474 R13 -.7413
 SG1 706.2 SG2 440.6 THA 43.63

ORBIT DETERMINATION ACCURACY

ST 164.6 SR 290.8 SS 306.5
 CRT .6310 CRS -.7527 CST -.9635
 LSA 421.4 MSA 164.4 SSA 31.6
 EL1 312.3 EL2 118.9 ALF 66.78

LAUNCH DATE FEB 23 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 223.282

RL 148.03 LAL -0.00 LOL 154.21 VL 27.980 GAL -9.01 AZL 89.93 HCA 100.95 SMA 131.37 ECC .20057 INC .0737 V1 30.099
 RP 108.62 LAP .07 LOP 255.16 VP 37.861 GAP -5.90 AZP 90.01 TAL 222.35 TAP 323.30 RCA 105.02 APO 157.72 V2 34.889
 RC 65.076 GL .39 GP 24.37 ZAL 152.72 ZAP 40.59 ETS 331.10 ZAE 146.00 ETE 37.38 ZAC 122.43 ETC 145.61 CLP -33.52

PLANETOCENTRIC CONIC

C3 28.863 VHL 5.372 DLA .95 RAL 1.21 RAD 6568.2 VEL 12.257 PTH 2.21 VHP 5.381 DPA 36.03 RAP 29.52 ECC 1.4750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 58 2333.45 -22.26 49.15 228.90 107.96 1 47 52 1733.4 -19.60 41.49
 90.00 13 21 1 4918.88 20.98 214.29 228.35 70.54 14 43 0 4318.9 18.14 206.77
 100.00 2 30 45 2069.65 -23.43 29.33 228.48 109.12 3 5 15 1469.7 -20.60 21.68
 100.00 14 41 55 4657.90 22.14 194.65 227.90 69.38 15 59 33 4057.9 19.13 187.14
 110.00 3 40 0 1852.88 -26.55 11.57 227.18 112.37 4 10 53 1252.9 -23.28 3.94
 110.00 15 49 9 4447.44 25.22 177.29 226.52 66.13 17 3 17 3847.4 21.78 169.83

DIFFERENTIAL CORRECTIONS

TDE -.1238 TRA -.2811 TC3 .4454 BAU .2408
 RDE -.2334 RRA .3105 RC3 .4369 FAU .07642
 FDE -.6557 FRA -.8069 FC3-2.2921 BSP 2064
 BDE .2642 BRA .4188 BC3 .6239 FSP -664

MID-COURSE EXECUTION ACCURACY

SGT 580.0 SGR 626.1 SG3 233.4
 RRT .4357 RRF -.7493 RTF -.5288
 SGB 853.5 R23 -.1479 R13 -.7681
 SG1 724.5 SG2 451.2 THA 49.99

ORBIT DETERMINATION ACCURACY

ST 160.4 SR 268.4 SS 348.3
 CRT .5604 CRS -.7331 CST -.9528
 LSA 435.5 MSA 168.5 SSA 31.4
 EL1 286.9 EL2 124.3 ALF 66.92

LAUNCH DATE FEB 23 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 229.895

RL 148.03 LAL -0.00 LOL 154.21 VL 28.045 GAL -8.97 AZL 90.12 HCA 104.12 SMA 131.85 ECC .19748 INC .1177 V1 30.099
 RP 108.65 LAP -.11 LOP 258.33 VP 37.899 GAP -5.23 AZP 89.97 TAL 223.16 TAP 327.28 RCA 105.81 APO 157.88 V2 34.878
 RC 67.198 GL -.61 GP 26.12 ZAL 153.30 ZAP 44.58 ETS 333.19 ZAE 146.02 ETE 42.10 ZAC 120.79 ETC 145.38 CLP -37.51

PLANETOCENTRIC CONIC

C3 28.426 VHL 5.332 DLA -.21 RAL 1.07 RAD 6568.1 VEL 12.239 PTH 2.20 VHP 5.116 DPA 37.30 RAP 27.77 ECC 1.4678
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 56 2293.96 -21.41 46.57 228.15 108.98 1 55 10 1694.0 -18.63 39.01
 90.00 13 11 54 4950.75 21.69 216.36 228.27 71.34 14 34 25 4350.7 18.94 208.76
 100.00 2 38 10 2031.88 -22.56 26.86 227.71 110.15 3 12 2 1431.9 -19.61 19.30
 100.00 14 33 21 4688.06 22.84 196.61 227.84 70.18 15 51 29 4088.1 19.94 189.02
 110.00 3 46 12 1818.95 -25.65 9.35 226.36 113.41 4 16 31 1219.0 -22.26 1.83
 110.00 15 41 49 4473.75 25.94 179.00 226.50 66.91 16 56 22 3873.8 22.59 171.45

DIFFERENTIAL CORRECTIONS

TDE -.1213 TRA -.2932 TC3 .4165 BAU .2478
 RDE -.2031 RRA .3289 RC3 .5016 FAU .08299
 FDE -.7744 FRA -.8868 FC3-2.5276 BSP 2134
 BDE .2365 BRA .4406 BC3 .6520 FSP -741

MID-COURSE EXECUTION ACCURACY

SGT 559.9 SGR 677.2 SG3 257.2
 RRT .4078 RRF -.7919 RTF -.4729
 SGB 878.7 R23 -.1383 R13 -.7969
 SG1 746.2 SG2 464.0 THA 57.56

ORBIT DETERMINATION ACCURACY

ST 161.6 SR 243.1 SS 390.6
 CRT .4743 CRS -.6981 CST -.9415
 LSA 455.8 MSA 170.6 SSA 31.0
 EL1 259.8 EL2 133.1 ALF 65.77

LAUNCH DATE FEB 23 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 236.477

RL 148.03 LAL -0.00 LOL 154.21 VL 28.099 GAL -8.92 AZL 90.32 HCA 107.29 SMA 132.25 ECC .19482 INC .3163 V1 30.099
 RP 108.68 LAP -.30 LOP 261.50 VP 37.930 GAP -4.59 AZP 89.91 TAL 223.83 TAP 331.13 RCA 106.48 APO 158.01 V2 34.867
 RC 69.360 GL -1.66 GP 27.98 ZAL 153.74 ZAP 48.77 ETS 335.28 ZAE 145.95 ETE 47.37 ZAC 118.91 ETC 145.34 CLP -41.73

PLANETOCENTRIC CONIC

C3 28.044 VHL 5.296 DLA -1.36 RAL 1.05 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 4.885 DPA 38.56 RAP 25.67 ECC 1.4615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 21 2254.96 -20.53 44.06 227.58 109.94 2 2 56 1655.0 -17.63 36.58
 90.00 13 3 18 4982.98 22.38 218.47 228.36 72.18 14 26 21 4383.0 19.73 210.80
 100.00 2 46 4 1994.61 -21.67 24.45 227.13 111.11 3 19 19 1394.6 -18.61 17.00
 100.00 14 25 17 4718.57 23.54 198.61 227.94 71.02 15 43 55 4118.6 20.73 190.94
 110.00 3 52 52 1785.51 -24.73 7.19 225.73 114.39 4 22 37 1185.5 -21.22 359.79
 110.00 15 34 58 4500.43 26.64 180.76 226.66 67.74 16 49 58 3900.4 23.38 173.11

DIFFERENTIAL CORRECTIONS

TDE -.1230 TRA -.3111 TC3 .3751 BAU .2564
 RDE -.1686 RRA .3476 RC3 .5718 FAU .08953
 FDE -.9024 FRA -.9606 FC3-2.7638 BSP 2229
 BDE .2087 BRA .4665 BC3 .6838 FSP -820

MID-COURSE EXECUTION ACCURACY

SGT 537.5 SGR 735.9 SG3 281.3
 RRT .3494 RRF -.8287 RTF -.3902
 SGB 911.3 R23 -.1131 R13 -.8280
 SG1 776.2 SG2 477.5 THA 66.22

ORBIT DETERMINATION ACCURACY

ST 167.5 SR 215.2 SS 434.1
 CRT .3630 CRS -.6380 CST -.9308
 LSA 482.6 MSA 170.5 SSA 30.6
 EL1 230.5 EL2 145.7 ALF 62.47

LAUNCH DATE FEB 23 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 243.026

RL 148.03 LAL -0.00 LOL 154.21 VL 28.142 GAL -8.87 AZL 90.52 HCA 110.46 SMA 132.57 ECC .19251 INC .5218 VI 30.099
 RP 108.72 LAP -.49 LOP 264.67 VP 37.953 GAP -3.99 AZP 89.82 TAL 224.37 TAP 334.83 RCA 107.05 APO 158.09 V2 34.858
 RC 71.560 GL -2.76 GP 29.93 ZAL 154.02 ZAP 53.14 ETS 337.45 ZAE 145.73 ETE 53.14 ZAC 116.83 ETC 145.51 CLP -46.19

PLANETOCENTRIC CONIC

C3 27.706 VHL 5.264 DLA -2.51 RAL 1.15 RAD 6568.1 VEL 12.210 PTH 2.19 VHP 4.687 DPA 39.79 RAP 23.23 ECC 1.4560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 19 2216.13 -19.61 41.58 227.19 110.85 2 11 16 1616.1 -16.60 34.20
 90.00 12 55 8 5015.78 23.05 220.64 228.62 73.08 14 18 43 4415.8 20.51 212.89
 100.00 2 54 30 1957.51 -20.74 22.09 226.72 112.02 3 27 7 1357.5 -17.57 14.73
 100.00 14 17 38 4749.63 24.21 200.67 228.22 71.91 15 36 48 4149.6 21.51 192.92
 110.00 4 0 3 1752.27 -23.77 5.07 225.28 115.32 4 29 16 1152.3 -20.17 357.79
 110.00 15 28 34 4527.63 27.33 182.58 226.98 68.62 16 44 2 3927.6 24.17 174.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1287 TRA -.3337 TC3 .3216 BAU .2680 SGT 516.2 SGR 803.1 SG3 305.5 ST 177.9 SR 185.6 SS 480.3
 RDE -.1288 RRA .3668 RC3 .6481 FAU .09594 RRT .2540 RRF -.8601 RTF -.2752 CRT .2053 CRS -.5302 CST -.9221
 FDE -1.0413 FRA -1.0281 FC3 -2.9977 BSP 2384 SGB 954.6 R23 -.0736 R13 -.8589 LSA 517.3 MSA 168.4 SSA 30.1
 BDE .1821 BRA .4959 BC3 .7235 FSP -906 SG1 819.9 SG2 489.0 THA 75.45 EL1 199.9 EL2 161.6 ALF 50.89

LAUNCH DATE FEB 23 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 249.542

RL 148.03 LAL -0.00 LOL 154.21 VL 28.177 GAL -8.82 AZL 90.74 HCA 113.63 SMA 132.83 ECC .19051 INC .7357 VI 30.099
 RP 108.74 LAP -.67 LOP 267.84 VP 37.970 GAP -3.41 AZP 89.70 TAL 224.76 TAP 338.39 RCA 107.52 APO 158.13 V2 34.848
 RC 73.792 GL -3.92 GP 31.95 ZAL 154.14 ZAP 57.64 ETS 339.74 ZAE 145.28 ETE 59.35 ZAC 114.57 ETC 145.90 CLP -50.89

PLANETOCENTRIC CONIC

C3 27.406 VHL 5.235 DLA -3.68 RAL 1.37 RAD 6568.1 VEL 12.198 PTH 2.19 VHP 4.525 DPA 40.96 RAP 20.47 ECC 1.4510
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 55 2177.09 -18.64 39.12 226.98 111.71 2 20 12 1577.1 -15.53 31.83
 90.00 12 47 18 5049.40 23.69 222.89 229.05 74.02 14 11 27 4449.4 21.28 215.06
 100.00 3 3 32 1920.24 -19.77 19.74 226.49 112.89 3 35 32 1320.2 -16.50 12.48
 100.00 14 10 21 4781.48 24.86 202.81 228.67 72.85 15 30 3 4181.5 22.28 194.97
 110.00 4 7 50 1718.95 -22.79 2.99 225.01 116.20 4 36 29 1118.9 -19.08 355.81
 110.00 15 22 33 4555.54 28.00 184.46 227.47 69.55 16 38 28 3955.5 24.96 176.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1423 TRA -.3640 TC3 .2513 BAU .2819 SGT 502.8 SGR 875.1 SG3 327.3 ST 196.6 SR 158.8 SS 525.1
 RDE -.0853 RRA .3840 RC3 .7272 FAU .10159 RRT .1064 RRF -.8853 RTF -.1110 CRT -.0129 CRS -.3450 CST -.9194
 FDE -1.1802 FRA -1.0773 FC3 -3.2091 BSP 2549 SGB 1009.3 R23 -.0286 R13 -.8850 LSA 558.2 MSA 164.7 SSA 29.5
 BDE .1659 BRA .5290 BC3 .7694 FSP -979 SG1 877.5 SG2 498.6 THA 84.83 EL1 196.6 EL2 158.7 ALF 178.29

LAUNCH DATE FEB 23 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 256.025

RL 148.03 LAL -0.00 LOL 154.21 VL 28.202 GAL -8.76 AZL 90.96 HCA 116.80 SMA 133.02 ECC .18876 INC .9602 VI 30.099
 RP 108.77 LAP -.86 LOP 271.01 VP 37.981 GAP -2.86 AZP 89.57 TAL 225.02 TAP 341.82 RCA 107.91 APO 158.13 V2 34.839
 RC 76.053 GL -5.14 GP 34.02 ZAL 154.10 ZAP 62.25 ETS 342.20 ZAE 144.55 ETE 65.86 ZAC 112.15 ETC 146.50 CLP -55.82

PLANETOCENTRIC CONIC

C3 27.140 VHL 5.210 DLA -4.87 RAL 1.71 RAD 6568.1 VEL 12.187 PTH 2.19 VHP 4.396 DPA 42.06 RAP 17.42 ECC 1.4467
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 14 2137.44 -17.62 36.66 226.93 112.53 2 29 51 1537.4 -14.42 29.45
 90.00 12 39 43 5084.20 24.33 225.25 229.65 75.04 14 4 27 4484.2 22.04 217.33
 100.00 3 13 17 1882.43 -18.75 17.40 226.42 113.71 3 44 39 1282.4 -15.39 10.22
 100.00 14 3 21 4814.44 25.51 205.05 229.29 73.86 15 23 35 4214.4 23.05 197.11
 110.00 4 16 16 1685.21 -21.76 .91 224.90 117.04 4 44 22 1085.2 -17.96 353.84
 110.00 15 16 50 4584.42 28.68 186.44 228.14 70.54 16 33 15 3984.4 25.75 178.48

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1633 TRA -.3998 TC3 .1661 BAU .2996 SGT 506.9 SGR 951.6 SG3 346.7 ST 223.2 SR 140.6 SS 570.0
 RDE -.0372 RRA .3989 RC3 .8087 FAU .10636 RRT -.0853 RRF -.9057 RTF .0928 CRT -.3190 CRS -.0389 CST -.9216
 FDE -1.3194 FRA -1.1081 FC3 -3.3929 BSP 2769 SGB 1078.2 R23 .0147 R13 -.9057 LSA 606.7 MSA 159.8 SSA 28.8
 BDE .1675 BRA .5647 BC3 .8256 FSP -1046 SG1 953.0 SG2 504.3 THA 93.61 EL1 229.9 EL2 129.3 ALF 163.17

LAUNCH DATE FEB 23 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 262.475

RL 148.03 LAL -0.00 LOL 154.21 VL 28.220 GAL -8.70 AZL 91.20 HCA 119.96 SMA 133.15 ECC .18723 INC 1.1973 VI 30.099
 RP 108.80 LAP -1.04 LOP 274.17 VP 37.986 GAP -2.33 AZP 89.40 TAL 225.16 TAP 345.12 RCA 108.22 APO 158.08 V2 34.831
 RC 78.340 GL -6.45 GP 36.10 ZAL 153.89 ZAP 66.90 ETS 344.85 ZAE 143.50 ETE 72.51 ZAC 109.63 ETC 147.32 CLP -60.95

PLANETOCENTRIC CONIC

C3 26.907 VHL 5.187 DLA -6.09 RAL 2.17 RAD 6568.1 VEL 12.177 PTH 2.19 VHP 4.303 DPA 43.06 RAP 14.12 ECC 1.4428
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 23 2096.72 -16.55 34.15 227.06 113.31 2 40 20 1496.7 -13.25 27.03
 90.00 12 32 15 5120.62 24.94 227.74 230.42 76.14 13 57 36 4520.6 22.79 219.73
 100.00 3 23 50 1843.64 -17.67 15.02 226.53 114.51 3 54 34 1243.6 -14.22 7.93
 100.00 13 56 29 4848.94 26.14 207.42 230.08 74.96 15 17 18 4248.9 23.82 199.39
 110.00 4 25 28 1650.70 -20.68 358.82 224.97 117.85 4 52 58 1050.7 -16.79 351.85
 110.00 15 11 21 4614.65 29.34 188.54 228.99 71.62 16 28 16 4014.6 26.55 180.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.1924 TRA -.4400 TC3 .0669 BAU .3215 SGT 537.5 SGR 1031.4 SG3 362.9 ST 258.2 SR 140.9 SS 615.6
 RDE -.0161 RRA .4110 RC3 .8914 FAU .11007 RRT -.2937 RRF -.9221 RTF .3080 CRT -.6544 CRS .3549 CST -.9275
 FDE -1.4571 FRA -1.1199 FC3 -3.5416 BSP 3062 SGB 1163.1 R23 .0506 R13 -.9215 LSA 664.0 MSA 154.3 SSA 28.0
 BDE .1931 BRA .6021 BC3 .8939 FSP -1108 SG1 1047.2 SG2 506.0 THA 101.39 EL1 276.8 EL2 99.3 ALF 157.26

LAUNCH DATE FEB 23 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 268.893

RL 148.03 LAL -1.00 LOL 154.21 VL 28.231 GAL -8.63 AZL 91.45 HCA 123.12 SMA 133.23 ECC .18588 INC 1.4499 V1 30.099
 RP 108.82 LAP -1.21 LOP 277.34 VP 37.987 GAP -1.83 AZP 89.21 TAL 225.16 TAP 348.29 RCA 108.47 APO 158.00 V2 34.824
 RC 80.651 GL -7.85 GP 38.18 ZAL 153.51 ZAP 71.54 ETS 347.72 ZAE 142.11 ETE 79.13 ZAC 107.04 ETC 148.33 CLP -66.24

PLANETOCENTRIC CONIC

C3 26.708 VHL 5.168 DLA -7.37 RAL 2.76 RAD 6568.1 VEL 12.169 PTH 2.18 VHP 4.245 DPA 43.96 RAP 10.63 ECC 1.4395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 33 2054.43 -15.39 31.59 227.36 114.07 2 51 47 1454.4 -12.01 24.54
 90.00 12 24 48 5159.23 25.55 230.41 231.38 77.35 13 50 47 4559.2 23.65 222.31
 100.00 3 35 21 1803.42 -16.52 12.59 226.82 115.27 4 5 25 1203.4 -12.98 5.59
 100.00 13 49 41 4885.47 26.76 209.95 231.06 76.15 15 11 6 4285.5 24.59 201.83
 110.00 4 35 32 1615.02 -19.53 356.69 225.21 118.63 5 2 27 1015.0 -15.55 349.82
 110.00 15 6 0 4646.64 30.01 190.80 230.04 72.80 16 23 27 4046.6 27.36 182.60

DIFFERENTIAL CORRECTIONS

TDE -.2324 TRA -.4852 TC3 -.0480 BAU .3467
 RDE .0723 RRA .4171 RC3 .9698 FAU .11211
 FDE -1.5807 FRA -1.1019 FC3 -3.6339 BSP 3383
 BDE .2434 BRA .6398 BC3 .9710 FSP -1147

MID-COURSE EXECUTION ACCURACY

SGT 602.5 SGR 1108.4 SG3 373.6
 RRT -.4840 RRF -.9347 RTF .5013
 SGB 1261.6 R23 .0792 R13 -.9330
 SG1 1155.8 SG2 505.6 THA 108.38

ORBIT DETERMINATION ACCURACY

ST 304.7 SR 164.0 SS 658.1
 CRT -.8696 CRS .6645 CST -.9359
 LSA 728.1 MSA 148.6 SSA 27.1
 EL1 338.3 EL2 72.9 ALF 153.60

LAUNCH DATE FEB 23 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 275.279

RL 148.03 LAL -1.00 LOL 154.21 VL 28.235 GAL -8.55 AZL 91.72 HCA 126.28 SMA 133.26 ECC .18469 INC 1.7213 V1 30.099
 RP 108.84 LAP -1.39 LOP 280.50 VP 37.984 GAP -1.35 AZP 88.98 TAL 225.05 TAP 351.34 RCA 108.65 APO 157.87 V2 34.816
 RC 82.981 GL -9.37 GP 40.23 ZAL 152.95 ZAP 76.10 ETS 350.81 ZAE 140.40 ETE 85.54 ZAC 104.45 ETC 149.50 CLP -71.65

PLANETOCENTRIC CONIC

C3 26.549 VHL 5.153 DLA -8.71 RAL 3.48 RAD 6568.1 VEL 12.162 PTH 2.18 VHP 4.221 DPA 44.76 RAP 7.04 ECC 1.4369
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 54 2009.98 -14.14 28.93 227.86 114.79 3 4 24 1410.0 -10.68 21.96
 90.00 12 17 12 5200.72 26.13 233.30 232.55 78.69 13 43 53 4600.7 24.31 225.11
 100.00 3 48 1 1761.22 -15.28 10.08 227.30 116.01 4 17 22 1161.2 -11.66 3.16
 100.00 13 42 47 4924.71 27.37 212.71 232.26 77.48 15 4 52 4324.7 25.37 204.48
 110.00 4 46 36 1577.74 -18.30 354.50 225.65 119.39 5 12 54 977.7 -14.24 347.73
 110.00 15 0 41 4680.95 30.67 193.25 231.30 74.12 16 18 41 4080.9 28.19 184.93

DIFFERENTIAL CORRECTIONS

TDE -.2829 TRA -.5323 TC3 -.1746 BAU .3757
 RDE .1330 RRA .4179 RC3 1.0441 FAU .11267
 FDE -1.6941 FRA -1.0617 FC3 -3.6740 BSP 3775
 BDE .3126 BRA .6768 BC3 1.0586 FSP -1178

MID-COURSE EXECUTION ACCURACY

SGT 700.0 SGR 1183.5 SG3 379.7
 RRT -.6297 RRF -.9449 RTF .6467
 SGB 1375.0 R23 .1007 R13 -.9418
 SG1 1279.7 SG2 502.8 THA 114.44

ORBIT DETERMINATION ACCURACY

ST 362.3 SR 206.9 SS 700.6
 CRT -.9610 CRS .8374 CST -.9449
 LSA 802.4 MSA 143.0 SSA 25.9
 EL1 414.2 EL2 50.0 ALF 150.77

LAUNCH DATE FEB 23 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 281.633

RL 148.03 LAL -1.00 LOL 154.21 VL 28.232 GAL -8.47 AZL 92.02 HCA 129.44 SMA 133.25 ECC .18362 INC 2.0155 V1 30.099
 RP 108.86 LAP -1.56 LOP 283.66 VP 37.976 GAP -.89 AZP 88.72 TAL 224.83 TAP 354.27 RCA 108.78 APO 157.71 V2 34.810
 RC 85.328 GL -11.01 GP 42.24 ZAL 152.19 ZAP 80.51 ETS 354.11 ZAE 138.39 ETE 91.63 ZAC 101.91 ETC 150.79 CLP -77.13

PLANETOCENTRIC CONIC

C3 26.438 VHL 5.142 DLA -10.13 RAL 4.35 RAD 6568.1 VEL 12.158 PTH 2.18 VHP 4.233 DPA 45.49 RAP 3.42 ECC 1.4351
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 43 1962.65 -12.77 26.12 228.57 115.49 3 18 25 1362.7 -9.23 19.23
 90.00 12 9 16 5245.97 26.70 236.50 233.94 80.19 13 36 42 4646.0 25.07 228.20
 100.00 4 2 2 1716.40 -13.92 7.44 227.99 116.72 4 30 39 1116.4 -10.22 .60
 100.00 13 35 38 4967.45 27.96 215.75 233.68 78.98 14 58 25 4367.4 26.16 207.41
 110.00 4 58 54 1538.37 -16.96 352.22 226.28 120.13 5 24 32 938.4 -12.83 345.55
 110.00 14 55 16 4718.25 31.34 195.95 232.80 75.59 16 13 54 4118.2 29.04 187.50

DIFFERENTIAL CORRECTIONS

TDE -.3464 TRA -.5807 TC3 -.3123 BAU .4068
 RDE .1956 RRA .4104 RC3 1.1078 FAU .11127
 FDE -1.7856 FRA -.9924 FC3 -3.6435 BSP 4184
 BDE .3978 BRA .7111 BC3 1.1510 FSP -1182

MID-COURSE EXECUTION ACCURACY

SGT 827.1 SGR 1249.4 SG3 379.2
 RRT -.7309 RRF -.9527 RTF .7465
 SGB 1498.4 R23 .1179 R13 -.9482
 SG1 1412.8 SG2 499.3 THA 119.93

ORBIT DETERMINATION ACCURACY

ST 433.5 SR 260.9 SS 739.2
 CRT -.9894 CRS .9185 CST -.9535
 LSA 884.8 MSA 138.1 SSA 24.6
 EL1 505.0 EL2 32.5 ALF 149.09

LAUNCH DATE FEB 23 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 287.957

RL 148.03 LAL -1.00 LOL 154.21 VL 28.225 GAL -8.37 AZL 92.34 HCA 132.60 SMA 133.19 ECC .18267 INC 2.3375 V1 30.099
 RP 108.88 LAP -1.72 LOP 286.83 VP 37.965 GAP -.45 AZP 88.42 TAL 224.50 TAP 357.10 RCA 108.86 APO 157.52 V2 34.804
 RC 87.691 GL -12.81 GP 44.22 ZAL 151.22 ZAP 84.71 ETS 357.62 ZAE 136.12 ETE 97.29 ZAC 99.44 ETC 152.16 CLP -82.61

PLANETOCENTRIC CONIC

C3 26.390 VHL 5.137 DLA -11.65 RAL 5.36 RAD 6568.1 VEL 12.156 PTH 2.18 VHP 4.280 DPA 46.16 RAP 359.82 ECC 1.4343
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 17 1911.60 -11.25 23.14 229.53 116.16 3 34 9 1311.6 -7.65 16.32
 90.00 12 0 45 5296.12 27.23 240.07 235.59 81.91 13 29 1 4696.1 25.83 231.68
 100.00 4 17 44 1668.21 -12.43 4.64 228.93 117.41 4 45 32 1068.2 -8.66 357.88
 100.00 13 28 0 5014.74 28.53 219.15 235.36 80.68 14 51 35 4414.7 26.95 210.70
 110.00 5 12 37 1496.31 -15.51 349.83 227.16 120.85 5 37 34 896.3 -11.31 343.25
 110.00 14 49 36 4759.41 31.99 198.98 234.58 77.27 16 8 55 4159.4 29.91 190.39

DIFFERENTIAL CORRECTIONS

TDE -.4231 TRA -.6271 TC3 -.4560 BAU .4404
 RDE .2623 RRA .3959 RC3 1.1619 FAU .10837
 FDE -1.8624 FRA -.9045 FC3 -3.5553 BSP 4649
 BDE .4978 BRA .7416 BC3 1.2482 FSP -1175

MID-COURSE EXECUTION ACCURACY

SGT 975.8 SGR 1309.2 SG3 373.8
 RRT -.7979 RRF -.9591 RTF .8118
 SGB 1632.8 R23 .1314 R13 -.9532
 SG1 1556.0 SG2 494.9 THA 124.75

ORBIT DETERMINATION ACCURACY

ST 518.4 SR 324.2 SS 777.7
 CRT -.9965 CRS .9581 CST -.9612
 LSA 979.9 MSA 134.1 SSA 23.0
 EL1 611.1 EL2 23.0 ALF 148.02

LAUNCH DATE FEB 23 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -0.00 LOL 154.21 VL 28.212 GAL -8.28 AZL 92.69 HCA 135.75 SMA 133.09 ECC .18181 INC 2.6939 VI 30.099
 RP 108.90 LAP -1.88 LOP 289.99 VP 37.951 GAP -.03 AZP 88.07 TAL 224.08 TAP 359.83 RCA 108.90 APO 157.29 V2 34.799
 RC 90.065 GL -14.79 GP 46.16 ZAL 150.02 ZAP 88.64 ETS 1.30 ZAE 133.65 ETE 102.48 ZAC 97.09 ETC 153.58 CLP -88.04

PLANETOCENTRIC CONIC
 C3 26.426 VHL 5.141 CLA -13.31 RAL 6.53 RAD 6568.1 VEL 12.157 PTH 2.18 VHP 4.365 DPA 46.82 RAP 356.30 ECC 1.4349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 5 1855.72 -9.56 19.91 230.78 116.78 3 52 1 1255.7 -5.89 13.15
 90.00 11 51 21 5352.69 27.70 244.14 237.54 83.90 13 20 34 4752.7 26.57 235.66
 100.00 4 35 29 1615.70 -10.76 1.63 230.15 118.06 5 2 24 1015.7 -6.93 354.94
 100.00 13 19 38 5067.95 29.06 223.02 237.36 82.65 14 44 6 4467.9 27.73 214.46
 110.00 5 28 6 1450.88 -13.91 347.28 228.30 121.54 5 52 17 850.9 -9.64 340.79
 110.00 14 43 30 4805.52 32.63 202.42 236.69 79.21 16 3 36 4205.5 30.80 193.68

DIFFERENTIAL CORRECTIONS
 TDE -.5152 TRA -.6699 TC3 -.6025 BAU .4747 SGT 1141.1 SGR 1357.5 SG3 362.7 ST 618.9 SR 392.3 SS 813.2
 RDE .3311 RRA .3723 RC3 1.2010 FAU .10382 RRT -.8418 RRF -.9643 RTF .8543 CRT -.9968 CRS .9779 CST -.9678
 FDE -1.9168 FRA -.7964 FC3 -3.4010 BSP 5131 SGB 1773.4 R23 .1431 R13 -.9569 LSA 1086.5 MSA 131.2 SSA 21.1
 BDE .6124 BRA .7664 BC3 1.3437 FSP -1148 SG1 1704.1 SG2 490.7 THA 129.14 EL1 732.3 EL2 26.5 ALF 147.67

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -0.00 LOL 154.21 VL 28.195 GAL -8.17 AZL 93.09 HCA 138.90 SMA 132.97 ECC .18103 INC 3.0929 VI 30.099
 RP 108.91 LAP -2.03 LOP 293.15 VP 37.935 GAP .38 AZP 87.67 TAL 223.55 TAP 2.46 RCA 108.90 APO 157.04 V2 34.795
 RC 92.449 GL -16.98 GP 48.10 ZAL 148.56 ZAP 92.25 ETS 5.16 ZAE 131.01 ETE 107.19 ZAC 94.87 ETC 154.99 CLP -93.37

PLANETOCENTRIC CONIC
 C3 26.577 VHL 5.155 CLA -15.12 RAL 7.90 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 4.487 DPA 47.52 RAP 352.86 ECC 1.4374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 42 42 1793.53 -7.63 16.36 232.39 117.35 4 12 36 1193.5 -3.90 9.66
 90.00 11 40 36 5417.70 28.09 248.86 239.83 86.23 13 10 54 4817.7 27.27 240.29
 100.00 4 55 50 1557.59 -8.88 358.34 231.71 118.66 5 21 47 957.6 -4.99 351.71
 100.00 13 10 10 5128.87 29.50 227.49 239.71 84.96 14 35 39 4528.9 28.49 218.83
 110.00 5 45 45 1401.23 -12.12 344.54 229.78 122.21 6 9 6 801.2 -7.79 338.13
 110.00 14 36 44 4858.00 33.23 206.40 239.19 81.50 15 57 42 4258.0 31.70 197.51

DIFFERENTIAL CORRECTIONS
 TDE -.6244 TRA -.7063 TC3 -.7465 BAU .5091 SGT 1317.3 SGR 1393.7 SG3 346.6 ST 736.0 SR 463.9 SS 845.8
 RDE .4024 RRA .3390 RC3 1.2230 FAU .09782 RRT -.8706 RRF -.9685 RTF .8824 CRT -.9954 CRS .9883 CST -.9733
 FDE -1.9497 FRA -.6726 FC3 -3.1866 BSP 5618 SGB 1917.7 R23 .1540 R13 -.9595 LSA 1206.2 MSA 129.8 SSA 19.1
 BDE .7429 BRA .7834 BC3 1.4329 FSP -1101 SG1 1854.9 SG2 487.0 THA 133.15 EL1 869.2 EL2 37.7 ALF 147.83

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -0.00 LOL 154.21 VL 28.174 GAL -8.06 AZL 93.55 HCA 142.05 SMA 132.81 ECC .18033 INC 3.5454 VI 30.099
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.915 GAP .76 AZP 87.20 TAL 222.94 TAP 4.99 RCA 108.86 APO 156.76 V2 34.791
 RC 94.840 GL -19.43 GP 50.08 ZAL 146.82 ZAP 95.48 ETS 9.18 ZAE 128.23 ETE 111.42 ZAC 92.79 ETC 156.39 CLP -98.55

PLANETOCENTRIC CONIC
 C3 26.888 VHL 5.185 CLA -17.12 RAL 9.47 RAD 6568.1 VEL 12.176 PTH 2.19 VHP 4.653 DPA 48.29 RAP 349.51 ECC 1.4425
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 8 2 1722.95 -5.40 12.37 234.45 117.84 4 36 45 1122.9 -1.63 5.71
 90.00 11 27 51 5494.06 28.30 254.43 242.53 89.02 12 59 25 4894.1 27.87 245.80
 100.00 5 19 32 1492.21 -6.73 354.68 233.73 119.19 5 44 24 892.2 -2.79 348.11
 100.00 12 59 2 5200.02 29.81 232.76 242.48 87.72 14 25 42 4600.0 29.18 224.01
 110.00 6 6 7 1346.28 -10.11 341.56 231.67 122.83 6 28 33 746.3 -5.72 335.23
 110.00 14 28 57 4918.72 33.75 211.07 242.16 84.21 15 50 55 4318.7 32.58 202.03

DIFFERENTIAL CORRECTIONS
 TDE -.7534 TRA -.7331 TC3 -.8816 BAU .5423 SGT 1499.1 SGR 1416.4 SG3 325.9 ST 870.8 SR 537.8 SS 875.4
 RDE .4765 RRA .2954 RC3 1.2244 FAU .09056 RRT -.8895 RRF -.9720 RTF .9012 CRT -.9938 CRS .9939 CST -.9779
 FDE -1.9619 FRA -.5377 FC3 -2.9158 BSP 6095 SGB 2062.4 R23 .1646 R13 -.9613 LSA 1340.4 MSA 129.9 SSA 16.8
 BDE .8914 BRA .7903 BC3 1.5087 FSP -1036 SG1 2004.8 SG2 484.0 THA 136.83 EL1 1022.2 EL2 50.9 ALF 148.37

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -0.00 LOL 154.21 VL 28.149 GAL -7.93 AZL 94.07 HCA 145.20 SMA 132.62 ECC .17969 INC 4.0666 VI 30.099
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.894 GAP 1.13 AZP 86.66 TAL 222.25 TAP 7.45 RCA 108.79 APO 156.45 V2 34.788
 RC 97.236 GL -22.18 GP 52.14 ZAL 144.75 ZAP 98.29 ETS 13.35 ZAE 125.32 ETE 115.23 ZAC 90.85 ETC 157.76 CLP -103.58

PLANETOCENTRIC CONIC
 C3 27.427 VHL 5.237 CLA -19.35 RAL 11.30 RAD 6568.1 VEL 12.198 PTH 2.19 VHP 4.867 DPA 49.19 RAP 346.18 ECC 1.4514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 27 1640.64 -2.77 7.75 237.12 118.19 5 5 48 1040.6 1.02 1.12
 90.00 11 12 1 5586.23 28.22 261.17 245.69 92.40 12 45 7 4986.2 28.26 252.51
 100.00 5 47 45 1417.00 -4.22 350.51 236.32 119.62 6 11 22 817.0 -2.24 343.98
 100.00 12 45 24 5285.11 29.88 239.08 245.74 91.04 14 13 29 4685.1 29.70 230.28
 110.00 6 30 0 1284.63 -7.82 338.26 234.10 123.38 6 51 24 684.6 -3.37 331.99
 110.00 14 19 39 4990.24 34.10 216.62 245.68 87.48 15 42 49 4390.2 33.38 207.45

DIFFERENTIAL CORRECTIONS
 TDE -.9071 TRA -.7482 TC3 -1.0023 BAU .5753 SGT 1685.2 SGR 1431.8 SG3 302.9 ST 1026.5 SR 616.6 SS 905.1
 RDE .5571 RRA .2436 RC3 1.2072 FAU .08264 RRT -.9024 RRF -.9752 RTF .9148 CRT -.9925 CRS .9971 CST -.9818
 FDE -1.9618 FRA -.4033 FC3 -2.6084 BSP 6617 SGB 2211.3 R23 .1739 R13 -.9629 LSA 1495.2 MSA 131.2 SSA 14.5
 BDE 1.0646 BRA .7869 BC3 1.5691 FSP -969 SG1 2158.2 SG2 481.7 THA 140.14 EL1 1195.7 EL2 64.5 ALF 149.10

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 319.139

RL 148.03 LAL -.00 LOL 154.21 VL 28.121 GAL -7.80 AZL 94.68 MCA 148.34 SMA 132.41 ECC .17911 INC 4.6771 V1 30.099
 RP 108.94 LAP -2.45 LOP 302.64 VP 37.871 GAP 1.49 AZP 86.02 TAL 221.48 TAP 9.82 RCA 108.70 APO 156.13 V2 34.786
 RC 99.636 GL -25.28 GP 54.34 ZAL 142.30 ZAP 100.63 ETS 17.70 ZAE 122.29 ETE 118.67 ZAC 89.02 ETC 159.11 CLP-108.45

PLANETOCENTRIC CONIC

C3 28.298 VHL 5.320 DLA -21.84 RAL 13.43 RAD 6568.1 VEL 12.234 PTH 2.20 VMP 5.139 DPA 50.24 RAP 342.80 ECC 1.4657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 16 24 1540.52 .46 2.17 240.63 118.31 5 42 5 940.5 4.24 355.53
 90.00 10 51 3 5701.92 27.61 269.58 249.32 96.56 12 26 5 5101.9 28.23 260.97
 100.00 6 22 22 1327.61 -1.19 345.60 239.71 119.87 6 44 30 727.6 2.79 339.08
 100.00 12 27 46 5390.06 29.49 246.85 249.54 95.12 13 57 36 4790.1 29.89 238.07
 110.00 6 58 33 1214.19 -5.16 334.33 237.24 123.84 7 18 47 614.2 -1.68 328.31
 110.00 14 8 5 5076.25 34.16 223.34 249.85 91.45 15 32 41 4476.3 33.98 214.09

DIFFERENTIAL CORRECTIONS

TOE-1.0909 TRA -.7466 TC3-1.0989 BAU .6052
 ROE .6415 RRA .1788 RC3 1.1625 FAU .07383
 FDE-1.9417 FRA -.2641 FC3-2.2588 BSP 7088
 BDE 1.2636 BRA .7677 BC3 1.5996 FSP -884

MID-COURSE EXECUTION ACCURACY

SGT 1870.3 SGR 1431.8 SG3 276.5
 RRT -.9102 RRF -.9778 RTF .9243
 SGB 2355.4 R23 .1837 R13 -.9640
 SG1 2305.8 SG2 480.9 TMA 143.27

ORBIT DETERMINATION ACCURACY

ST 1203.9 SR 694.7 SS 930.0
 CRT -.9916 CRS .9988 CST -.9849
 LSA 1867.0 MSA 133.9 SSA 12.2
 EL1 1387.8 EL2 78.1 ALF 150.12

LAUNCH DATE FEB 23 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 325.292

RL 148.03 LAL -.00 LOL 154.21 VL 28.090 GAL -7.66 AZL 95.41 MCA 151.48 SMA 132.18 ECC .17859 INC 5.4068 V1 30.099
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.847 GAP 1.83 AZP 85.25 TAL 220.63 TAP 12.12 RCA 108.58 APO 155.79 V2 34.784
 RC 102.038 GL -28.79 GP 56.74 ZAL 139.43 ZAP 102.48 ETS 22.26 ZAE 119.10 ETE 121.82 ZAC 87.25 ETC 160.48 CLP-113.21

PLANETOCENTRIC CONIC

C3 29.664 VHL 5.446 DLA -24.63 RAL 15.93 RAD 6568.2 VEL 12.290 PTH 2.21 VMP 5.484 DPA 51.47 RAP 339.23 ECC 1.4882
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 18 1407.96 4.72 354.75 245.42 117.95 6 30 46 808.0 8.43 348.03
 90.00 10 20 7 5858.07 25.90 280.68 253.32 101.87 11 57 45 5258.1 27.28 272.28
 100.00 7 7 4 1215.03 2.62 339.42 244.26 119.79 7 27 19 615.0 6.57 332.85
 100.00 12 3 2 5526.22 28.25 256.78 253.83 100.20 13 35 9 4926.2 29.37 248.15
 110.00 7 33 39 1131.61 -2.02 330.21 241.37 124.13 7 52 31 531.6 2.47 324.00
 110.00 13 52 56 5182.41 33.67 231.58 254.75 96.31 15 19 18 4582.4 34.17 222.38

DIFFERENTIAL CORRECTIONS

TOE-1.3164 TRA -.7254 TC3-1.1644 BAU .6332
 ROE .7345 RRA .1037 RC3 1.0923 FAU .06479
 FDE-1.9118 FRA -.1333 FC3-1.8908 BSP 7596
 BDE 1.5075 BRA .7327 BC3 1.5966 FSP -799

MID-COURSE EXECUTION ACCURACY

SGT 2057.0 SGR 1423.8 SG3 249.1
 RRT -.9151 RRF -.9802 RTF .9321
 SGB 2501.7 R23 .1916 R13 -.9652
 SG1 2455.0 SG2 481.1 TMA 146.18

ORBIT DETERMINATION ACCURACY

ST 1408.1 SR 774.4 SS 953.7
 CRT -.9910 CRS .9996 CST -.9877
 LSA 1863.6 MSA 137.3 SSA 10.1
 EL1 1604.4 EL2 91.2 ALF 151.31

LAUNCH DATE FEB 23 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 331.417

RL 148.03 LAL -.00 LOL 154.21 VL 28.056 GAL -7.51 AZL 96.30 MCA 154.62 SMA 131.93 ECC .17812 INC 6.3003 V1 30.099
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.821 GAP 2.15 AZP 84.30 TAL 219.72 TAP 14.34 RCA 108.43 APO 155.43 V2 34.783
 RC 104.441 GL -32.77 GP 59.42 ZAL 136.05 ZAP 103.79 ETS 27.08 ZAE 115.73 ETE 124.82 ZAC 85.51 ETC 161.96 CLP-117.93

PLANETOCENTRIC CONIC

C3 31.799 VHL 5.639 DLA -27.76 RAL 18.90 RAD 6568.3 VEL 12.376 PTH 2.23 VMP 5.928 DPA 52.89 RAP 335.30 ECC 1.5233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 36 5 1167.37 12.16 341.00 252.92 115.77 7 55 32 567.4 15.53 333.94
 90.00 9 15 1 845.52 20.74 321.28 256.66 109.73 9 29 7 245.5 23.24 313.50
 100.00 8 12 15 1050.48 8.12 330.30 250.80 118.87 8 29 45 450.5 11.91 323.56
 100.00 11 21 33 5725.68 25.06 270.72 258.21 106.86 12 56 59 5125.7 27.13 262.54
 110.00 8 18 44 1030.09 1.86 324.91 246.95 124.14 8 35 54 430.1 6.33 318.67
 110.00 13 31 33 5318.84 32.16 241.94 260.31 102.26 15 0 12 4718.8 33.51 232.97

DIFFERENTIAL CORRECTIONS

TOE-1.5976 TRA -.6760 TC3-1.1862 BAU .6563
 ROE .8327 RRA .0122 RC3 .9879 FAU .05539
 FDE-1.8667 FRA -.0071 FC3-1.5079 BSP 8067
 BDE 1.8016 BRA .6761 BC3 1.5437 FSP -705

MID-COURSE EXECUTION ACCURACY

SGT 2242.1 SGR 1399.0 SG3 220.1
 RRT -.9165 RRF -.9819 RTF .9385
 SGB 2642.8 R23 .1987 R13 -.9664
 SG1 2598.3 SG2 483.1 TMA 149.05

ORBIT DETERMINATION ACCURACY

ST 1640.4 SR 846.7 SS 971.7
 CRT -.9905 CRS .9999 CST -.9901
 LSA 2081.3 MSA 141.5 SSA 8.2
 EL1 1843.1 EL2 103.8 ALF 152.83

LAUNCH DATE FEB 23 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 337.514

RL 148.03 LAL -.00 LOL 154.21 VL 28.020 GAL -7.36 AZL 97.43 MCA 157.75 SMA 131.67 ECC .17770 INC 7.4267 V1 30.099
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.794 GAP 2.47 AZP 83.12 TAL 218.73 TAP 16.48 RCA 108.27 APO 155.07 V2 34.783
 RC 106.844 GL -37.27 GP 62.44 ZAL 132.13 ZAP 104.51 ETS 32.32 ZAE 112.11 ETE 127.87 ZAC 83.72 ETC 163.72 CLP-122.78

PLANETOCENTRIC CONIC

C3 35.183 VHL 5.931 DLA -31.22 RAL 22.47 RAD 6568.4 VEL 12.512 PTH 2.27 VMP 6.509 DPA 54.48 RAP 330.74 ECC 1.5790
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.27 6 51 0 1381.42 17.55 359.48 261.00 116.24 7 14 1 781.4 20.93 352.22
 103.73 10 28 36 682.46 17.57 307.86 261.00 116.23 10 39 58 82.5 20.95 300.60
 76.27 6 51 0 1381.42 17.55 359.48 261.00 116.24 7 14 1 781.4 20.93 352.22
 103.73 10 28 36 682.46 17.57 307.86 261.00 116.23 10 39 58 82.5 20.95 300.60
 110.00 9 22 24 889.34 7.20 317.52 254.92 123.51 9 37 13 289.3 11.56 311.13
 110.00 12 56 23 5510.58 28.55 255.69 266.05 109.64 14 28 13 4910.6 30.96 247.31

DIFFERENTIAL CORRECTIONS

TOE-1.9607 TRA -.5890 TC3-1.1543 BAU .6741
 ROE .9348 RRA -.0959 RC3 .8495 FAU .04606
 FDE-1.8125 FRA .1065 FC3-1.1335 BSP 8559
 BDE 2.1721 BRA .5967 BC3 1.4332 FSP -613

MID-COURSE EXECUTION ACCURACY

SGT 2430.0 SGR 1357.4 SG3 191.0
 RRT -.9150 RRF -.9826 RTF .9451
 SGB 2783.4 R23 .2022 R13 -.9683
 SG1 2740.7 SG2 485.7 TMA 151.97

ORBIT DETERMINATION ACCURACY

ST 1904.9 SR 904.1 SS 985.1
 CRT -.9900 CRS .9998 CST -.9921
 LSA 2322.7 MSA 145.5 SSA 6.5
 EL1 2105.4 EL2 115.3 ALF 154.75

LAUNCH DATE FEB 23 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 27.982 GAL -7.19 AZL 98.90 MCA 160.86 SMA 131.39 ECC .17731 INC 8.8996 V1 30.099
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.766 GAP 2.76 AZP 81.58 TAL 217.69 TAP 18.55 RCA 108.09 APO 154.69 V2 34.784
 RC 109.246 GL -42.31 GP 65.89 ZAL 127.59 ZAP 104.60 ETS 38.22 ZAE 108.16 ETE 131.31 ZAC 81.78 ETC 166.08 CLP-128.09

PLANETOCENTRIC CONIC
 C3 40.714 VHL 6.381 OLA -34.98 RAL 26.83 RAD 6568.6 VEL 12.731 PTH 2.31 VHP 7.297 DPA 56.17 RAP 325.19 ECC 1.6701
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.54 6 18 57 1570.99 18.23 14.46 268.73 120.39 6 45 8 971.0 22.13 7.43
 111.46 11 35 23 5854.72 18.24 277.25 268.74 120.38 13 12 58 5254.7 22.14 270.22
 68.54 6 18 57 1570.99 18.23 14.46 268.73 120.39 6 45 8 971.0 22.13 7.43
 111.46 11 35 23 5854.72 18.24 277.25 268.74 120.38 13 12 58 5254.7 22.14 270.22
 68.54 6 18 57 1570.99 18.23 14.46 268.73 120.39 6 45 8 971.0 22.13 7.43
 111.46 11 35 23 5854.72 18.24 277.25 268.74 120.38 13 12 58 5254.7 22.14 270.22

DIFFERENTIAL CORRECTIONS
 TDE-2.4445 TRA -.4425 TC3-1.0558 BAU .6813 SGT 2620.8 SGR 1280.8 SG3 161.9 ST 2200.2 SR 920.8 SS 989.7
 RDE 1.0217 RRA -.2278 RC3 .6725 FAU .03681 RRT -.9083 RRF -.9808 RTF .9524 CRT -.9891 CRS .9993 CST -.9939
 FDE-1.7462 FRA .2102 FC3 -.7827 BSP 8997 SGB 2917.0 R23 .2017 R13 -.9710 LSA 2578.0 MSA 149.0 SSA 5.0
 BDE 2.6494 BRA .4977 BC3 1.2518 FSP -516 SG1 2875.9 SG2 488.3 THA 155.30 EL1 2381.8 EL2 125.4 ALF 157.45

LAUNCH DATE FEB 23 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 27.942 GAL -7.01 AZL 100.92 MCA 163.97 SMA 131.10 ECC .17695 INC10.9195 V1 30.099
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.738 GAP 3.05 AZP 79.50 TAL 216.57 TAP 20.54 RCA 107.90 APO 154.30 V2 34.785
 RC 111.645 GL -47.83 GP 69.84 ZAL 122.41 ZAP 104.02 ETS 45.39 ZAE 103.73 ETE 135.86 ZAC 79.54 ETC 169.73 CLP-134.65

PLANETOCENTRIC CONIC
 C3 50.247 VHL 7.089 OLA -38.90 RAL 32.21 RAD 6568.8 VEL 13.100 PTH 2.39 VHP 8.412 DPA 57.77 RAP 318.16 ECC 1.8269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.13 6 6 40 1723.23 18.00 26.62 278.45 125.09 6 35 24 1123.2 22.46 19.96
 117.87 12 30 35 5808.14 18.01 273.32 278.46 125.08 14 7 23 5208.1 22.47 266.66
 62.13 6 6 40 1723.23 18.00 26.62 278.45 125.09 6 35 24 1123.2 22.46 19.96
 117.87 12 30 35 5808.14 18.01 273.32 278.46 125.08 14 7 23 5208.1 22.47 266.66
 62.13 6 6 40 1723.23 18.00 26.62 278.45 125.09 6 35 24 1123.2 22.46 19.96
 117.87 12 30 35 5808.14 18.01 273.32 278.46 125.08 14 7 23 5208.1 22.47 266.66

DIFFERENTIAL CORRECTIONS
 TDE-3.1212 TRA -.1998 TC3 -.8866 BAU .6725 SGT 2826.3 SGR 1140.9 SG3 133.9 ST 2523.9 SR 851.2 SS 987.2
 RDE 1.0424 RRA -.3816 RC3 .4650 FAU .02798 RRT -.8907 RRF -.9708 RTF .9619 CRT -.9864 CRS .9974 CST -.9956
 FDE-1.6763 FRA .3011 FC3 -.4821 BSP 9458 SGB 3047.9 R23 .1927 R13 -.9752 LSA 2836.6 MSA 150.6 SSA 3.8
 BDE 3.2907 BRA .4308 BC3 1.0012 FSP -426 SG1 3008.7 SG2 487.2 THA 159.67 EL1 2660.3 EL2 132.7 ALF 161.55

LAUNCH DATE FEB 23 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 27.900 GAL -6.81 AZL 103.87 MCA 167.04 SMA 130.80 ECC .17660 INC13.8731 V1 30.099
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.709 GAP 3.31 AZP 76.47 TAL 215.38 TAP 22.42 RCA 107.70 APO 153.89 V2 34.787
 RC 114.042 GL -53.62 GP 74.31 ZAL 116.65 ZAP 102.73 ETS 55.44 ZAE 98.62 ETE 143.23 ZAC 76.78 ETC 176.37 CLP-144.55

PLANETOCENTRIC CONIC
 C3 68.067 VHL 8.250 OLA -42.63 RAL 38.88 RAD 6569.3 VEL 13.763 PTH 2.51 VHP 10.092 DPA 58.93 RAP 309.04 ECC 2.1202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.69 6 9 4 1864.96 16.27 37.36 290.38 129.97 6 40 9 1265.0 21.30 31.21
 123.31 13 21 26 5814.60 16.28 272.49 290.40 129.96 14 58 21 5214.6 21.31 266.33
 56.69 6 9 4 1864.96 16.27 37.36 290.38 129.97 6 40 9 1265.0 21.30 31.21
 123.31 13 21 26 5814.60 16.28 272.49 290.40 129.96 14 58 21 5214.6 21.31 266.33
 56.69 6 9 4 1864.96 16.27 37.36 290.38 129.97 6 40 9 1265.0 21.30 31.21
 123.31 13 21 26 5814.60 16.28 272.49 290.40 129.96 14 58 21 5214.6 21.31 266.33

DIFFERENTIAL CORRECTIONS
 TDE-4.1053 TRA .2286 TC3 -.6472 BAU .6286 SGT 3052.1 SGR 849.9 SG3 107.6 ST 2852.0 SR 576.6 SS 979.6
 RDE .8010 RRA -.5341 RC3 .2414 FAU .01955 RRT -.8174 RRF -.9159 RTF .9743 CRT -.9706 CRS .9859 CST -.9972
 FDE-1.6099 FRA .3873 FC3 -.2487 BSP 9836 SGB 3168.2 R23 .1729 R13 -.9810 LSA 3066.5 MSA 149.2 SSA 2.8
 BDE 4.1828 BRA .5810 BC3 .6908 FSP -340 SG1 3132.1 SG2 477.1 THA 166.87 EL1 2906.5 EL2 136.1 ALF 168.87

LAUNCH DATE FEB 23 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 27.857 GAL -6.60 AZL 108.60 MCA 170.06 SMA 130.49 ECC .17619 INC18.6045 V1 30.099
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.679 GAP 3.56 AZP 71.66 TAL 214.11 TAP 24.17 RCA 107.49 APO 153.48 V2 34.790
 RC 116.435 GL -59.12 GP 78.89 ZAL 110.44 ZAP 100.73 ETS 73.21 ZAE 92.40 ETE 158.38 ZAC 73.05 ETC 191.05 CLP-165.06

PLANETOCENTRIC CONIC
 C3 105.824 VHL 10.287 OLA -45.48 RAL 47.01 RAD 6570.0 VEL 15.072 PTH 2.71 VHP 12.853 DPA 58.91 RAP 297.32 ECC 2.7416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.79 6 26 12 2004.54 12.51 46.49 304.39 134.10 6 59 37 1404.5 18.00 40.88
 127.21 14 9 8 5873.31 12.52 274.30 304.41 134.09 15 47 1 5273.3 18.01 268.68
 52.79 6 26 12 2004.54 12.51 46.49 304.39 134.10 6 59 37 1404.5 18.00 40.88
 127.21 14 9 8 5873.31 12.52 274.30 304.41 134.09 15 47 1 5273.3 18.01 268.68
 52.79 6 26 12 2004.54 12.51 46.49 304.39 134.10 6 59 37 1404.5 18.00 40.88
 127.21 14 9 8 5873.31 12.52 274.30 304.41 134.09 15 47 1 5273.3 18.01 268.68

DIFFERENTIAL CORRECTIONS
 TDE-5.4726 TRA 1.0340 TC3 -.3564 BAU .5085 SGT 3240.9 SGR 483.6 SG3 84.6 ST 3058.1 SR 301.5 SS 984.7
 RDE -.5002 RRA -.4829 RC3 .0463 FAU .01148 RRT .2962 RRF .1655 RTF .9887 CRT .8903 CRS -.8663 CST -.9987
 FDE-1.5784 FRA .4861 FC3 -.0939 BSP 10234 SGB 3276.8 R23 -.1397 R13 .9879 LSA 3223.6 MSA 145.9 SSA 2.2
 BDE 5.4955 BRA 1.1413 BC3 .3594 FSP -267 SG1 3244.1 SG2 461.5 THA 2.58 EL1 3069.9 EL2 136.7 ALF 5.03

LAUNCH DATE FEB 23 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 367.263

RL 148.03 LAL -.00 LOL 154.21 VL 27.812 GAL -6.35 AZL 117.29 HCA 172.96 SMA 130.17 ECC .17559 INC27.2898 V1 30.099
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.650 GAP 3.75 AZP 62.89 TAL 212.69 TAP 25.65 RCA 107.31 APO 153.02 V2 34.794
 RC 118.823 GL -62.75 GP 80.28 ZAL 104.08 ZAP 98.09 ETS 111.08 ZAE 84.05 ETE 193.80 ZAC 67.34 ETC 226.50 CLP 146.45

PLANETOCENTRIC CONIC

C3 203.236 VHL 14.256 DLA -45.95 RAL 56.10 RAD 6571.1 VEL 18.015 PTH 3.01 VHP 18.005 OPA 56.14 RAP 283.11 ECC 4.3447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.17 7 0 11 2129.20 6.88 52.44 319.38 135.55 7 35 40 1529.2 12.55 47.13
 127.83 14 47 41 698.15 6.90 301.24 319.39 135.54 14 59 19 98.2 12.56 295.92
 52.17 7 0 11 2129.20 6.88 52.44 319.38 135.55 7 35 40 1529.2 12.55 47.13
 127.83 14 47 41 698.15 6.90 301.24 319.39 135.54 14 59 19 98.2 12.56 295.92
 52.17 7 0 11 2129.20 6.88 52.44 319.38 135.55 7 35 40 1529.2 12.55 47.13
 127.83 14 47 41 698.15 6.90 301.24 319.39 135.54 14 59 19 98.2 12.56 295.92

DIFFERENTIAL CORRECTIONS

TDE -5.1692 TRA 2.2222 TC3 -.0707 BAU .1924
 RDE -5.5228 RRA .9086 RC3 .0040 FAU .00203
 FDE -1.6531 FRA .6613 FC3 -.0087 BSP 10444
 BDE 7.5646 BRA 2.4008 BC3 .0708 FSP -209

MID-COURSE EXECUTION ACCURACY

SGT 2450.9 SGR 2281.0 SG3 66.3
 RRT .9451 RRF .9576 RTF .9982
 SGB 3348.1 R23 -.1103 R13 .9931
 SG1 3302.1 SG2 555.0 THA 42.82

ORBIT DETERMINATION ACCURACY

ST 2113.0 SR 2225.2 SS 1048.8
 CRT .9937 CRS -.9950 CST -.9999
 LSA 3238.0 MSA 178.5 SSA 1.4
 EL1 3063.8 EL2 172.4 ALF 46.49

LAUNCH DATE FEB 23 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 372.630

RL 148.03 LAL -.00 LOL 154.21 VL 27.766 GAL -6.02 AZL 136.68 HCA 175.50 SMA 129.84 ECC .17432 INC46.6787 V1 30.099
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.620 GAP 3.84 AZP 43.41 TAL 210.94 TAP 26.44 RCA 107.21 APO 152.48 V2 34.798
 RC 121.206 GL -59.93 GP 70.52 ZAL 98.18 ZAP 95.09 ETS 155.34 ZAE 70.49 ETE 235.59 ZAC 56.56 ETC 270.20 CLP 105.42

PLANETOCENTRIC CONIC

C3 538.830 VHL 23.213 DLA -40.28 RAL 63.78 RAD 6572.4 VEL 25.693 PTH 3.36 VHP 29.347 OPA 46.82 RAP 268.05 ECC 9.8678
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.06 8 2 58 2152.63 1.36 49.38 332.16 130.26 8 38 51 1552.6 6.51 43.66
 119.94 14 46 10 894.77 1.38 313.57 332.17 130.26 15 1 5 294.8 6.53 307.85
 60.06 8 2 58 2152.63 1.36 49.38 332.16 130.26 8 38 51 1552.6 6.51 43.66
 119.94 14 46 10 894.77 1.38 313.57 332.17 130.26 15 1 5 294.8 6.53 307.85
 60.06 8 2 58 2152.63 1.36 49.38 332.16 130.26 8 38 51 1552.6 6.51 43.66
 119.94 14 46 10 894.77 1.38 313.57 332.17 130.26 15 1 5 294.8 6.53 307.85

DIFFERENTIAL CORRECTIONS

TDE .9408 TRA 1.8408 TC3 -.0202 BAU 1.1325
 RD -10.9004 RRA 5.0094 RC3 .1559 FAU -.01763
 FDE -2.0063 FRA 1.1297 FC3 .0283 BSP 10139
 BDE 10.9409 BRA 5.3369 BC3 .1572 FSP -172

MID-COURSE EXECUTION ACCURACY

SGT 646.1 SGR 3223.3 SG3 54.4
 RRT .1309 RRF .9957 RTF .2222
 SGB 3287.5 R23 -.0873 R13 .9962
 SG1 3224.5 SG2 640.3 THA 88.44

ORBIT DETERMINATION ACCURACY

ST 293.0 SR 2734.2 SS 1286.1
 CRT -.6715 CRS -.9992 CST .6420
 LSA 3027.6 MSA 222.8 SSA .3
 EL1 2741.3 EL2 216.6 ALF 94.14

LAUNCH DATE FEB 23 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 383.460

RL 148.03 LAL -.00 LOL 154.21 VL 27.720 GAL -6.79 AZL 1.30 HCA 183.32 SMA 129.52 ECC .18478 INC88.6888 V1 30.099
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.590 GAP 5.44 AZP 178.69 TAL 213.02 TAP 36.34 RCA 105.58 APO 153.45 V2 34.803
 RC 123.581 GL 42.82 GP -47.99 ZAL 95.20 ZAP 94.17 ETS 179.64 ZAE 51.37 ETE 104.05 ZAC 63.61 ETC 68.89 CLP 96.24

PLANETOCENTRIC CONIC

C31638.996 VHL 40.485 DLA 60.30 RAL 36.49 RAD 6573.2 VEL 41.956 PTH 3.57 VHP 50.327 OPA -67.48 RAP 226.10 ECC27.9737
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.25 16 46 11 5058.78 1.43 241.24 307.32 29.71 18 10 30 4458.8 -5.52 237.68
 145.75 2 25 14 3387.35 1.44 104.03 307.30 29.71 3 21 42 2787.3 -5.51 100.47
 34.25 16 46 11 5058.78 1.43 241.24 307.32 29.71 18 10 30 4458.8 -5.52 237.68
 145.75 2 25 14 3387.35 1.44 104.03 307.30 29.71 3 21 42 2787.3 -5.51 100.47
 34.25 16 46 11 5058.78 1.43 241.24 307.32 29.71 18 10 30 4458.8 -5.52 237.68
 145.75 2 25 14 3387.35 1.44 104.03 307.30 29.71 3 21 42 2787.3 -5.51 100.47

DIFFERENTIAL CORRECTIONS

TDE -5.3556 TRA 1.6444 TC3 -.1009 BAU 4.5070
 RD -14.7207 RRA -1.4685 RC3 -.1792 FAU -.07580
 FDE 3.3903 FRA .1267 FC3 .0400 BSP 8330
 BDE 15.6647 BRA 1.7098 BC3 .2057 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1209.5 SGR 2542.4 SG3 50.1
 RRT .8787 RRF -.9999 RTF -.8715
 SGB 2815.5 R23 -.0983 R13 -.9951
 SG1 2765.0 SG2 530.9 THA 66.39

ORBIT DETERMINATION ACCURACY

ST 771.3 SR 2084.2 SS 2087.3
 CRT .9794 CRS 1.0000 CST .9787
 LSA 3045.1 MSA 152.2 SSA .7
 EL1 2217.5 EL2 146.4 ALF 69.99

LAUNCH DATE FEB 23 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 387.575

RL 148.03 LAL -.00 LOL 154.21 VL 27.672 GAL -6.19 AZL 44.02 HCA 184.67 SMA 129.18 ECC .18074 INC45.9762 V1 30.099
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.560 GAP 5.17 AZP 135.88 TAL 210.45 TAP 35.11 RCA 105.84 APO 152.53 V2 34.808
 RC 125.948 GL 59.86 GP -70.91 ZAL 98.49 ZAP 97.13 ETS 190.76 ZAE 75.68 ETE 112.63 ZAC 85.19 ETC 83.83 CLP 112.29

PLANETOCENTRIC CONIC

C3 523.218 VHL 22.874 DLA 70.02 RAL 358.90 RAD 6572.4 VEL 25.387 PTH 3.35 VHP 28.161 OPA -83.96 RAP 122.08 ECC 9.6109
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.84 13 49 55 5042.10 -2.14 246.31 268.14 20.00 15 13 57 4442.1 -9.65 243.96
 157.16 0 21 39 3288.76 -2.13 96.24 268.12 20.00 1 16 27 2688.8 -9.64 93.89
 22.84 13 49 55 5042.10 -2.14 246.31 268.14 20.00 15 13 57 4442.1 -9.65 243.96
 157.16 0 21 39 3288.76 -2.13 96.24 268.12 20.00 1 16 27 2688.8 -9.64 93.89
 22.84 13 49 55 5042.10 -2.14 246.31 268.14 20.00 15 13 57 4442.1 -9.65 243.96
 157.16 0 21 39 3288.76 -2.13 96.24 268.12 20.00 1 16 27 2688.8 -9.64 93.89

DIFFERENTIAL CORRECTIONS

TDE .6144 TRA 1.0212 TC3 -.0493 BAU 1.1904
 RDE -9.9261 RRA 3.0797 RC3 -.1629 FAU -.01507
 FDE 1.9942 FRA -.5566 FC3 .0249 BSP 11240
 BDE 9.9451 BRA 3.2446 BC3 .1702 FSP -189

MID-COURSE EXECUTION ACCURACY

SGT 796.7 SGR 3439.7 SG3 56.6
 RRT .5382 RRF -.9977 RTF -.4871
 SGB 3530.8 R23 -.0839 R13 -.9960
 SG1 3467.4 SG2 666.1 THA 82.62

ORBIT DETERMINATION ACCURACY

ST 272.3 SR 2577.0 SS 1251.4
 CRT -.3284 CRS .9997 CST -.3526
 LSA 2866.0 MSA 258.2 SSA 1.5
 EL1 2578.6 EL2 257.0 ALF 92.01

LAUNCH DATE FEB 23 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 392.949

RL 148.03 LAL -0.00 LCL 154.21 VL 27.624 GAL -5.84 AZL 62.17 HCA 187.25 SMA 128.85 ECC .17969 INC27.8313 VI 30.099
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.530 GAP 5.26 AZP 117.64 TAL 208.66 TAP 35.91 RCA 105.70 APO 152.00 V2 34.815
 RC 128.306 GL 62.70 GP -77.18 ZAL 102.82 ZAP 101.67 ETS 235.35 ZAE 88.87 ETE 156.50 ZAC 95.97 ETC 129.38 CLP 155.71

PLANETOCENTRIC CONIC

C3 208.445 VHL 14.438 CLA 67.02 RAL 343.55 RAD 6571.2 VEL 18.159 PTH 3.02 VHP 17.579 DPA -73.53 RAP 68.46 ECC 4.4305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.32 12 56 16 4927.95 -8.60 241.98 249.88 23.26 14 18 24 4327.9 -15.93 239.12
 153.68 23 8 51 3195.14 -8.59 95.64 249.86 23.25 24 2 6 2595.1 -15.93 92.78
 26.32 12 56 16 4927.95 -8.60 241.98 249.88 23.26 14 18 24 4327.9 -15.93 239.12
 153.68 23 8 51 3195.14 -8.59 95.64 249.86 23.25 24 2 6 2595.1 -15.93 92.78
 26.32 12 56 16 4927.95 -8.60 241.98 249.88 23.26 14 18 24 4327.9 -15.93 239.12
 153.68 23 8 51 3195.14 -8.59 95.64 249.86 23.25 24 2 6 2595.1 -15.93 92.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.7002 TRA-1.6792 TC3 -.0433 BAU .1213 SGT 2255.2 SGR 3021.0 SG3 70.6 ST 1555.2 SR 1386.2 SS 771.8
 RDE -2.7705 RRA 2.7680 RC3 -.0045 FAU .00600 RRT -.9417 RRF -.9674 RTF .9946 CRT -.9495 CRS .9688 CST -.9976
 FDE 1.1772 FRA -.6555 FC3 -.0249 BSP 11779 SGB 3769.9 R23 -.1299 R13 -.9903 LSA 2196.5 MSA 332.9 SSA 1.7
 BDE 4.6225 BRA 3.2375 BC3 .0435 FSP -229 SG1 3719.2 SG2 616.1 THA 126.26 EL1 2057.1 EL2 328.9 ALF 138.46

LAUNCH DATE FEB 23 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 398.655

RL 148.03 LAL -0.00 LCL 154.21 VL 27.575 GAL -5.56 AZL 70.42 HCA 190.17 SMA 128.52 ECC .17948 INC19.5772 VI 30.099
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.501 GAP 5.43 AZP 109.29 TAL 207.09 TAP 37.25 RCA 105.45 APO 151.58 V2 34.821
 RC 130.653 GL 60.39 GP -73.16 ZAL 106.82 ZAP 106.71 ETS 278.36 ZAE 97.23 ETE 198.49 ZAC 102.26 ETC 172.49 CLP-173.05

PLANETOCENTRIC CONIC

C3 111.898 VHL 10.578 CLA 63.00 RAL 343.29 RAD 6570.1 VEL 15.272 PTH 2.74 VHP 12.788 DPA -64.88 RAP 57.13 ECC 2.8416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.04 13 6 8 4799.94 -15.02 235.61 245.45 28.04 14 26 8 4199.9 -22.04 231.98
 148.96 22 56 57 3101.05 -15.01 94.58 245.43 28.04 23 48 38 2501.0 -22.03 90.95
 31.04 13 6 8 4799.94 -15.02 235.61 245.45 28.04 14 26 8 4199.9 -22.04 231.98
 148.96 22 56 57 3101.05 -15.01 94.58 245.43 28.04 23 48 38 2501.0 -22.03 90.95
 31.04 13 6 8 4799.94 -15.02 235.61 245.45 28.04 14 26 8 4199.9 -22.04 231.98
 148.96 22 56 57 3101.05 -15.01 94.58 245.43 28.04 23 48 38 2501.0 -22.03 90.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.1280 TRA-2.8123 TC3 -.3228 BAU .4832 SGT 3820.4 SGR 792.2 SG3 89.7 ST 1970.8 SR 262.9 SS 684.6
 RDE .2181 RRA .6562 RC3 .0120 FAU .01713 RRT -.8076 RRF -.7101 RTF .9868 CRT -.0701 CRS -.0561 CST -.9920
 FDE 1.0492 FRA -.6897 FC3 -.1326 BSP 12206 SGB 3901.7 R23 -.1672 R13 -.9836 LSA 2084.8 MSA 274.9 SSA 2.2
 BDE 3.1356 BRA 2.8879 BC3 .3230 FSP -.293 SG1 3874.4 SG2 460.7 THA 170.36 EL1 1970.9 EL2 262.3 ALF 179.45

LAUNCH DATE FEB 23 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 404.467

RL 148.03 LAL -0.00 LCL 154.21 VL 27.526 GAL -5.28 AZL 74.97 HCA 193.20 SMA 128.18 ECC .17961 INC15.0257 VI 30.099
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.472 GAP 5.63 AZP 104.65 TAL 205.56 TAP 38.76 RCA 105.16 APO 151.20 V2 34.829
 RC 132.989 GL 56.75 GP -66.98 ZAL 110.15 ZAP 111.83 ETS 292.71 ZAE 103.50 ETE 211.25 ZAC 106.83 ETC 186.38 CLP-161.94

PLANETOCENTRIC CONIC

C3 72.193 VHL 8.497 CLA 59.37 RAL 346.63 RAD 6569.4 VEL 13.912 PTH 2.54 VHP 10.267 DPA -57.59 RAP 51.18 ECC 2.1881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.36 13 30 6 4684.19 -20.07 228.79 244.15 32.85 14 48 10 4084.2 -26.72 224.36
 144.64 22 59 35 3023.19 -20.06 92.95 244.13 32.85 23 49 58 2423.2 -26.71 88.52
 35.36 13 30 6 4684.19 -20.07 228.79 244.15 32.85 14 48 10 4084.2 -26.72 224.36
 144.64 22 59 35 3023.19 -20.06 92.95 244.13 32.85 23 49 58 2423.2 -26.71 88.52
 35.36 13 30 6 4684.19 -20.07 228.79 244.15 32.85 14 48 10 4084.2 -26.72 224.36
 144.64 22 59 35 3023.19 -20.06 92.95 244.13 32.85 23 49 58 2423.2 -26.71 88.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.4526 TRA-2.5866 TC3 -.6811 BAU .6633 SGT 3974.2 SGR 498.8 SG3 111.7 ST 1947.1 SR 474.2 SS 685.3
 RDE .7031 RRA -.0055 RC3 -.0911 FAU .02586 RRT .4986 RRF .6662 RTF .9739 CRT -.9520 CRS -.9333 CST -.9832
 FDE 1.0670 FRA -.7069 FC3 -.3101 BSP 12566 SGB 4005.4 R23 .2018 R13 .9753 LSA 2101.5 MSA 263.5 SSA 2.9
 BDE 2.5514 BRA 2.5866 BC3 .6872 FSP -.367 SG1 3982.1 SG2 431.6 THA 3.62 EL1 1989.2 EL2 243.0 ALF 11.90

LAUNCH DATE FEB 23 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 410.319

RL 148.03 LAL -0.00 LCL 154.21 VL 27.477 GAL -5.01 AZL 77.84 HCA 196.29 SMA 127.84 ECC .17996 INC12.1615 VI 30.099
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.443 GAP 5.85 AZP 101.69 TAL 204.04 TAP 40.33 RCA 104.84 APO 150.85 V2 34.837
 RC 135.313 GL 52.95 GP -60.90 ZAL 112.74 ZAP 116.79 ETS 298.29 ZAE 108.51 ETE 214.75 ZAC 110.57 ETC 191.09 CLP-157.90

PLANETOCENTRIC CONIC

C3 52.201 VHL 7.225 CLA 56.19 RAL 350.69 RAD 6568.9 VEL 13.174 PTH 2.41 VHP 8.797 DPA -51.08 RAP 47.51 ECC 1.8591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.21 13 56 28 4585.66 -23.63 222.10 243.66 37.40 15 12 54 3985.7 -29.89 216.92
 140.79 23 5 36 2964.68 -23.62 91.19 243.64 37.40 23 55 0 2364.7 -29.87 86.02
 39.21 13 56 28 4585.66 -23.63 222.10 243.66 37.40 15 12 54 3985.7 -29.89 216.92
 140.79 23 5 36 2964.68 -23.62 91.19 243.64 37.40 23 55 0 2364.7 -29.87 86.02
 39.21 13 56 28 4585.66 -23.63 222.10 243.66 37.40 15 12 54 3985.7 -29.89 216.92
 140.79 23 5 36 2964.68 -23.62 91.19 243.64 37.40 23 55 0 2364.7 -29.87 86.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 2.1062 TRA-2.3443 TC3 -1.0768 BAU .7638 SGT 4046.1 SGR 680.0 SG3 134.0 ST 1948.4 SR 578.6 SS 701.0
 RDE .7244 RRA -.1606 RC3 -.1958 FAU .03342 RRT .7866 RRF .9070 RTF .9641 CRT .9125 CRS -.9773 CST -.9784
 FDE 1.0990 FRA -.7035 FC3 -.5542 BSP 12957 SGB 4102.9 R23 .2275 R13 .9673 LSA 2134.7 MSA 256.5 SSA 3.7
 BDE 2.2273 BRA 2.3498 BC3 1.0944 FSP -.447 SG1 4081.7 SG2 416.2 THA 7.61 EL1 2019.7 EL2 228.4 ALF 15.36

LAUNCH DATE FEB 23 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 416.186

RL 148.03 LAL -0.00 LOL 154.21 VL 27.427 GAL -4.74 AZL 79.81 HCA 199.40 SMA 127.51 ECC .18045 INC10.1919 VI 30.099
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.414 GAP 6.07 A7P 99.62 TAL 202.52 TAP 41.92 RCA 104.50 APO 150.52 V2 34.846
 RC 137.625 GL 49.33 GP -55.31 ZAL 114.64 ZAP 121.46 ETS 301.15 ZAE 112.60 ETE 215.15 ZAC 113.81 ETC 192.79 CLP-156.48

PLANETOCENTRIC CONIC

C3 40.665 VHL 6.377 DLA 53.43 RAL 354.77 RAD 6568.6 VEL 12.729 PTH 2.31 VHP 7.883 DPA -45.19 RAP 45.19 ECC 1.6692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.60 14 22 22 4502.64 -26.02 215.85 243.55 41.53 15 37 24 3902.6 -31.88 210.02
 137.40 23 12 17 2922.45 -26.01 89.59 243.53 41.53 24 0 59 2322.5 -31.86 83.77
 42.60 14 22 22 4502.64 -26.02 215.85 243.55 41.53 15 37 24 3902.6 -31.88 210.02
 137.40 23 12 17 2922.45 -26.01 89.59 243.53 41.53 24 0 59 2322.5 -31.86 83.77
 42.60 14 22 22 4502.64 -26.02 215.85 243.55 41.53 15 37 24 3902.6 -31.88 210.02
 137.40 23 12 17 2922.45 -26.01 89.59 243.53 41.53 24 0 59 2322.5 -31.86 83.77

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9008 TRA-2.1471 TC3-1.4983 BAU .8287
 RDE .6641 RRA -.1834 RC3 -.2803 FAU .03973
 FDE 1.1154 FRA -.6748 FC3 -.8459 BSP 13319
 BDE 2.0135 BRA 2.1549 BC3 1.5243 FSP -521

SGT 4129.3 SGR 748.6 SG3 154.6
 RRT .8404 RRF .9442 RTF .9563
 SGB 4196.6 R23 .2452 R13 .9600
 SG1 4177.4 SG2 401.0 THA 8.74

ST 1965.6 SR 602.6 SS 713.8
 CRT .9290 CRS -.9875 CST -.9756
 LSA 2161.9 MSA 249.7 SSA 4.6
 EL1 2044.7 EL2 214.3 ALF 16.08

LAUNCH DATE FEB 23 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 422.060

RL 148.03 LAL -0.00 LOL 154.21 VL 27.377 GAL -4.46 AZL 81.25 HCA 202.53 SMA 127.17 ECC .18108 INC 8.7498 VI 30.099
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.386 GAP 6.29 A7P 98.09 TAL 200.98 TAP 43.51 RCA 104.14 APO 150.20 V2 34.855
 RC 139.923 GL 45.99 GP -50.29 ZAL 115.89 ZAP 125.77 ETS 302.97 ZAE 115.93 ETE 214.27 ZAC 116.72 ETC 193.26 CLP-156.20

PLANETOCENTRIC CONIC

C3 33.331 VHL 5.773 DLA 51.06 RAL 358.72 RAD 6568.3 VEL 12.438 PTH 2.25 VHP 7.295 DPA -39.86 RAP 43.79 ECC 1.5485
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.56 14 47 6 4432.17 -27.58 210.16 243.77 45.16 16 0 58 3832.2 -33.06 203.81
 134.44 23 19 5 2892.46 -27.57 88.23 243.75 45.15 24 7 17 2292.5 -33.04 81.89
 45.56 14 47 6 4432.17 -27.58 210.16 243.77 45.16 16 0 58 3832.2 -33.06 203.81
 134.44 23 19 5 2892.46 -27.57 88.23 243.75 45.15 24 7 17 2292.5 -33.04 81.89
 45.56 14 47 6 4432.17 -27.58 210.16 243.77 45.16 16 0 58 3832.2 -33.06 203.81
 134.44 23 19 5 2892.46 -27.57 88.23 243.75 45.15 24 7 17 2292.5 -33.04 81.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7920 TRA-1.9501 TC3-1.9008 BAU .8595
 RDE .6051 RRA -.1555 RC3 -.3270 FAU .04360
 FDE 1.1333 FRA -.5984 FC3-1.1323 BSP 12918
 BDE 1.8914 BRA 1.9563 BC3 1.9288 FSP -535

SGT 4178.7 SGR 750.7 SG3 169.9
 RRT .8456 RRF .9491 RTF .9467
 SGB 4245.6 R23 .2647 R13 .9506
 SG1 4227.0 SG2 396.1 THA 8.72

ST 2005.1 SR 605.2 SS 731.5
 CRT .9369 CRS -.9921 CST -.9732
 LSA 2204.7 MSA 247.1 SSA 5.6
 EL1 2084.5 EL2 203.5 ALF 15.94

LAUNCH DATE FEB 23 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 427.929

RL 148.03 LAL -0.00 LOL 154.21 VL 27.327 GAL -4.18 AZL 82.36 HCA 205.67 SMA 126.84 ECC .18185 INC 7.6436 VI 30.099
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.359 GAP 6.51 A7P 96.90 TAL 199.43 TAP 45.11 RCA 103.77 APO 149.90 V2 34.865
 RC 142.207 GL 42.93 GP -45.83 ZAL 116.58 ZAP 129.71 ETS 304.30 ZAE 118.64 ETE 212.81 ZAC 119.40 ETC 193.17 CLP-156.49

PLANETOCENTRIC CONIC

C3 28.327 VHL 5.322 DLA 49.03 RAL 2.54 RAD 6568.1 VEL 12.235 PTH 2.20 VHP 6.911 DPA -35.04 RAP 43.05 ECC 1.4662
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.14 15 10 41 4371.62 -28.58 205.06 244.33 48.30 16 23 32 3771.6 -33.71 198.30
 131.86 23 26 0 2871.34 -28.56 87.15 244.31 48.29 24 13 51 2271.3 -33.70 80.39
 48.14 15 10 41 4371.62 -28.58 205.06 244.33 48.30 16 23 32 3771.6 -33.71 198.30
 131.86 23 26 0 2871.34 -28.56 87.15 244.31 48.29 24 13 51 2271.3 -33.70 80.39
 48.14 15 10 41 4371.62 -28.58 205.06 244.33 48.30 16 23 32 3771.6 -33.71 198.30
 131.86 23 26 0 2871.34 -28.56 87.15 244.31 48.29 24 13 51 2271.3 -33.70 80.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6795 TRA-1.8104 TC3-2.3576 BAU .9039
 RDE .5380 RRA -.1350 RC3 -.3722 FAU .04764
 FDE 1.1015 FRA -.5370 FC3-1.4560 BSP 13537
 BDE 1.7636 BRA 1.8155 BC3 2.3868 FSP -604

SGT 4289.8 SGR 735.9 SG3 185.0
 RRT .8553 RRF .9495 RTF .9421
 SGB 4352.4 R23 .2652 R13 .9456
 SG1 4336.0 SG2 377.2 THA 8.41

ST 2017.4 SR 583.1 SS 726.0
 CRT .9413 CRS -.9943 CST -.9717
 LSA 2209.0 MSA 239.2 SSA 6.7
 EL1 2091.4 EL2 189.8 ALF 15.35

LAUNCH DATE FEB 23 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 433.795

RL 148.03 LAL -0.00 LOL 154.21 VL 27.277 GAL -3.88 AZL 83.24 HCA 208.83 SMA 126.51 ECC .18274 INC 6.7640 VI 30.099
 RP 108.66 LAP -3.26 LOP 37.332 VP 37.332 GAP 6.74 A7P 95.93 TAL 197.87 TAP 46.69 RCA 103.39 APO 149.63 V2 34.875
 RC 144.478 GL 40.14 GP -41.90 ZAL 116.76 ZAP 133.28 ETS 305.36 ZAE 120.83 ETE 211.10 ZAC 121.92 ETC 192.81 CLP-157.08

PLANETOCENTRIC CONIC

C3 24.720 VHL 4.972 DLA 47.29 RAL 6.28 RAD 6568.0 VEL 12.087 PTH 2.16 VHP 6.662 DPA -30.69 RAP 42.80 ECC 1.4068
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.39 15 33 15 4319.02 -29.21 200.52 245.23 50.99 16 45 14 3719.0 -34.04 193.44
 129.61 23 33 13 2856.42 -29.20 86.30 245.21 50.98 24 20 50 2256.4 -34.02 79.22
 50.39 15 33 15 4319.02 -29.21 200.52 245.23 50.99 16 45 14 3719.0 -34.04 193.44
 129.61 23 33 13 2856.42 -29.20 86.30 245.21 50.98 24 20 50 2256.4 -34.02 79.22
 50.39 15 33 15 4319.02 -29.21 200.52 245.23 50.99 16 45 14 3719.0 -34.04 193.44
 129.61 23 33 13 2856.42 -29.20 86.30 245.21 50.98 24 20 50 2256.4 -34.02 79.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6022 TRA-1.6696 TC3-2.8078 BAU .9371
 RDE .4852 RRA -.1094 RC3 -.3959 FAU .05011
 FDE 1.0636 FRA -.4549 FC3-1.7549 BSP 13900
 BDE 1.6741 BRA 1.6732 BC3 2.8356 FSP -645

SGT 4387.7 SGR 708.6 SG3 196.0
 RRT .8552 RRF .9432 RTF .9373
 SGB 4444.6 R23 .2626 R13 .9403
 SG1 4429.7 SG2 363.9 THA 7.92

ST 2034.8 SR 562.0 SS 718.7
 CRT .9451 CRS -.9960 CST -.9702
 LSA 2217.8 MSA 232.6 SSA 7.9
 EL1 2103.5 EL2 177.7 ALF 14.74

LAUNCH DATE FEB 23 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 439.654

RL 148.03 LAL -.00 LOL 154.21 VL 27.227 GAL -3.58 AZL 83.96 HCA 211.98 SMA 126.18 ECC .18377 INC 6.0440 V1 30.099
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.305 GAP 6.97 AZP 95.13 TAL 196.28 TAP 48.27 RCA 102.99 APO 149.37 V2 34.885
 RC 146.734 GL 37.58 GP -38.45 ZAL 116.47 ZAP 136.49 ETS 306.23 ZAE 122.60 ETE 209.33 ZAC 124.33 ETC 192.33 CLP-157.83

PLANETOCENTRIC CONIC

C3 22.010 VHL 4.691 DLA 45.81 RAL 9.97 RAD 6567.9 VEL 11.975 PTH 2.13 VHP 6.506 DPA -26.77 RAP 42.94 ECC 1.3622
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.35 15 55 0 4272.89 -29.60 196.50 246.47 53.29 17 6 13 3672.9 -34.16 189.17
 127.65 23 40 56 2845.87 -29.59 85.65 246.46 53.28 24 28 22 2245.9 -34.15 78.32
 52.35 15 55 0 4272.89 -29.60 196.50 246.47 53.29 17 6 13 3672.9 -34.16 189.17
 127.65 23 40 56 2845.87 -29.59 85.65 246.46 53.28 24 28 22 2245.9 -34.15 78.32
 52.35 15 55 0 4272.89 -29.60 196.50 246.47 53.29 17 6 13 3672.9 -34.16 189.17
 127.65 23 40 56 2845.87 -29.59 85.65 246.46 53.28 24 28 22 2245.9 -34.15 78.32

DIFFERENTIAL CORRECTIONS

TOE 1.5447 TRA-1.5300 TC3-3.2564 BAU .9656
 RDE .4430 RRA -.0853 RC3 -.4058 FAU .05145
 FDE 1.0184 FRA -.3633 FC3-2.0237 BSP 14201
 BOE 1.6070 BRA 1.5324 BC3 3.2816 FSP -671

MID-COURSE EXECUTION ACCURACY

SGT 4481.3 SGR 678.3 SG3 203.7
 RRT .8504 RRF .9325 RTF .9328
 SGB 4532.3 R23 .2552 R13 .9354
 SG1 4518.3 SG2 353.9 THA 7.38

ORBIT DETERMINATION ACCURACY

ST 2052.8 SR 543.0 SS 708.1
 CRT .9489 CRS -.9973 CST -.9688
 LSA 2226.9 MSA 226.2 SSA 9.3
 EL1 2116.9 EL2 166.1 ALF 14.18

LAUNCH DATE FEB 23 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 445.506

RL 148.03 LAL -.00 LOL 154.21 VL 27.177 GAL -3.27 AZL 84.56 HCA 215.15 SMA 125.85 ECC .18493 INC 5.4407 V1 30.099
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.279 GAP 7.20 AZP 94.45 TAL 194.68 TAP 49.83 RCA 102.58 APO 149.13 V2 34.897
 RC 148.977 GL 35.21 GP -35.41 ZAL 115.78 ZAP 139.39 ETS 306.96 ZAE 124.02 ETE 207.58 ZAC 126.65 ETC 191.80 CLP-158.67

PLANETOCENTRIC CONIC

C3 19.909 VHL 4.462 DLA 44.55 RAL 13.67 RAD 6567.8 VEL 11.887 PTH 2.11 VHP 6.416 DPA -23.23 RAP 43.39 ECC 1.3276
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.05 16 16 10 4232.14 -29.84 192.93 248.04 55.25 17 26 43 3632.1 -34.16 185.41
 125.95 23 49 16 2838.48 -29.83 85.16 248.03 55.24 24 36 34 2238.5 -34.15 77.64
 54.05 16 16 10 4232.14 -29.84 192.93 248.04 55.25 17 26 43 3632.1 -34.16 185.41
 125.95 23 49 16 2838.48 -29.83 85.16 248.03 55.24 24 36 34 2238.5 -34.15 77.64
 54.05 16 16 10 4232.14 -29.84 192.93 248.04 55.25 17 26 43 3632.1 -34.16 185.41
 125.95 23 49 16 2838.48 -29.83 85.16 248.03 55.24 24 36 34 2238.5 -34.15 77.64

DIFFERENTIAL CORRECTIONS

TOE 1.4998 TRA-1.3915 TC3-3.7049 BAU .9920
 RDE .4095 RRA -.0646 RC3 -.4072 FAU .05196
 FDE .9677 FRA -.2690 FC3-2.2596 BSP 14499
 BOE 1.5546 BRA 1.3930 BC3 3.7273 FSP -687

MID-COURSE EXECUTION ACCURACY

SGT 4574.4 SGR 649.6 SG3 208.9
 RRT .8432 RRF .9184 RTF .9291
 SGB 4620.3 R23 .2427 R13 .9313
 SG1 4607.3 SG2 346.8 THA 6.87

ORBIT DETERMINATION ACCURACY

ST 2069.9 SR 527.1 SS 694.3
 CRT .9532 CRS -.9984 CST -.9675
 LSA 2235.2 MSA 219.4 SSA 10.7
 EL1 2130.3 EL2 154.8 ALF 13.72

LAUNCH DATE FEB 23 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 451.348

RL 148.03 LAL -.00 LOL 154.21 VL 27.127 GAL -2.94 AZL 85.08 HCA 218.31 SMA 125.53 ECC .18623 INC 4.9249 V1 30.099
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.253 GAP 7.43 AZP 93.87 TAL 193.07 TAP 51.38 RCA 102.15 APO 148.91 V2 34.908
 RC 151.204 GL 32.99 GP -32.75 ZAL 114.71 ZAP 142.01 ETS 307.56 ZAE 125.17 ETE 205.92 ZAC 128.93 ETC 191.27 CLP-159.56

PLANETOCENTRIC CONIC

C3 18.241 VHL 4.271 DLA 43.45 RAL 17.41 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 6.374 DPA -20.03 RAP 44.10 ECC 1.3002
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.55 16 36 58 4195.93 -29.97 189.76 249.92 56.93 17 46 54 3595.9 -34.09 182.08
 124.45 0 2 13 2833.44 -29.96 84.81 249.91 56.92 0 49 27 2233.4 -34.08 77.13
 55.55 16 36 58 4195.93 -29.97 189.76 249.92 56.93 17 46 54 3595.9 -34.09 182.08
 124.45 0 2 13 2833.44 -29.96 84.81 249.91 56.92 0 49 27 2233.4 -34.08 77.13
 55.55 16 36 58 4195.93 -29.97 189.76 249.92 56.93 17 46 54 3595.9 -34.09 182.08
 124.45 0 2 13 2833.44 -29.96 84.81 249.91 56.92 0 49 27 2233.4 -34.08 77.13

DIFFERENTIAL CORRECTIONS

TOE 1.4635 TRA-1.2509 TC3-4.1503 BAU 1.0169
 RDE .3827 RRA -.0468 RC3 -.4029 FAU .05183
 FDE .9131 FRA -.1745 FC3-2.4597 BSP 14805
 BOE 1.5127 BRA 1.2518 BC3 4.1698 FSP -698

MID-COURSE EXECUTION ACCURACY

SGT 4665.4 SGR 624.1 SG3 212.0
 RRT .8339 RRF .9012 RTF .9260
 SGB 4707.0 R23 .2261 R13 .9279
 SG1 4694.5 SG2 342.3 THA 6.40

ORBIT DETERMINATION ACCURACY

ST 2084.9 SR 514.2 SS 677.6
 CRT .9581 CRS -.9991 CST -.9663
 LSA 2241.7 MSA 212.1 SSA 12.2
 EL1 2142.6 EL2 143.3 ALF 13.35

LAUNCH DATE FEB 23 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 457.182

RL 148.03 LAL -.00 LOL 154.21 VL 27.077 GAL -2.61 AZL 85.52 HCA 221.49 SMA 125.21 ECC .18768 INC 4.4763 V1 30.099
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.228 GAP 7.66 AZP 93.36 TAL 191.44 TAP 52.93 RCA 101.71 APO 148.71 V2 34.920
 RC 153.416 GL 30.90 GP -30.40 ZAL 113.29 ZAP 144.38 ETS 308.04 ZAE 126.09 ETE 204.37 ZAC 131.17 ETC 190.76 CLP-160.48

PLANETOCENTRIC CONIC

C3 16.898 VHL 4.111 DLA 42.49 RAL 21.22 RAD 6567.7 VEL 11.759 PTH 2.08 VHP 6.369 DPA -17.11 RAP 45.01 ECC 1.2781
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.89 16 57 36 4163.54 -30.02 186.92 252.12 58.39 18 7 0 3563.5 -33.96 179.12
 123.11 0 12 0 2830.33 -30.01 84.57 252.11 58.38 0 59 10 2230.3 -33.95 76.78
 56.89 16 57 36 4163.54 -30.02 186.92 252.12 58.39 18 7 0 3563.5 -33.96 179.12
 123.11 0 12 0 2830.33 -30.01 84.57 252.11 58.38 0 59 10 2230.3 -33.95 76.78
 56.89 16 57 36 4163.54 -30.02 186.92 252.12 58.39 18 7 0 3563.5 -33.96 179.12
 123.11 0 12 0 2830.33 -30.01 84.57 252.11 58.38 0 59 10 2230.3 -33.95 76.78

DIFFERENTIAL CORRECTIONS

TOE 1.4371 TRA-1.1039 TC3-4.5800 BAU 1.0385
 RDE .3624 RRA -.0307 RC3 -.3926 FAU .05101
 FDE .8603 FRA -.0788 FC3-2.6134 BSP 15028
 BOE 1.4821 BRA 1.1043 BC3 4.5968 FSP -697

MID-COURSE EXECUTION ACCURACY

SGT 4748.1 SGR 602.3 SG3 213.0
 RRT .8212 RRF .8809 RTF .9230
 SGB 4786.2 R23 .2086 R13 .9246
 SG1 4773.9 SG2 341.8 THA 5.98

ORBIT DETERMINATION ACCURACY

ST 2101.7 SR 505.6 SS 661.2
 CRT .9636 CRS -.9994 CST -.9650
 LSA 2251.2 MSA 204.8 SSA 13.8
 EL1 2157.6 EL2 131.6 ALF 13.10

LAUNCH DATE FEB 23 1969

FLIGHT TIME 158.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 463.004

RL 148.03 LAL -0.00 LOL 154.21 VL 27.027 GAL -2.27 AZL 85.92 MCA 224.66 SMA 124.89 ECC .18928 INC 4.0805 V1 30.099
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.203 GAP 7.90 AZP 92.90 TAL 189.80 TAP 54.46 RCA 101.25 APO 148.53 V2 34.932
 RC 155.612 GL 28.90 GP -28.33 ZAL 111.56 ZAP 146.54 ETS 308.38 ZAE 126.85 ETE 202.94 ZAC 133.39 ETC 190.26 CLP-161.41

PLANETOCENTRIC CONIC

C3 15.807 VHL 3.976 CLA 41.64 RAL 25.12 RAD 6567.6 VEL 11.713 PTH 2.06 VHP 6.392 DPA -14.46 RAP 46.09 ECC 1.2601
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.10 17 18 16 4134.40 -30.01 184.36 254.62 59.66 18 27 11 3534.4 -33.79 176.47
 121.90 0 22 30 2828.99 -30.00 84.45 254.61 59.65 1 9 39 2229.0 -33.78 76.56
 58.10 17 18 16 4134.40 -30.01 184.36 254.62 59.66 18 27 11 3534.4 -33.79 176.47
 121.90 0 22 30 2828.99 -30.00 84.45 254.61 59.65 1 9 39 2229.0 -33.78 76.56
 58.10 17 18 16 4134.40 -30.01 184.36 254.62 59.66 18 27 11 3534.4 -33.79 176.47
 121.90 0 22 30 2828.99 -30.00 84.45 254.61 59.65 1 9 39 2229.0 -33.78 76.56

DIFFERENTIAL CORRECTIONS

TDE 1.4111 TRA -.9550 TC3-5.0055 BAU 1.0609
 RDE .3458 RRA -.0172 RC3 -.3825 FAU .04997
 FDE .8035 FRA .0112 FC3-2.7368 BSP 15322
 BDE 1.4528 BRA .9551 BC3 5.0201 FSP -697

MID-COURSE EXECUTION ACCURACY

SGT 4834.0 SGR 584.8 SG3 213.0
 RRT .8083 RRF .8589 RTF .9211
 SGB 4869.3 R23 .1879 R13 .9224
 SGI 4857.2 SG2 342.6 THA 5.61

ORBIT DETERMINATION ACCURACY

ST 2110.6 SR 498.6 SS 640.6
 CRT .9694 CRS -.9990 CST -.9637
 LSA 2252.7 MSA 196.6 SSA 15.5
 EL1 2165.4 EL2 119.3 ALF 12.94

LAUNCH DATE FEB 23 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 468.816

RL 148.03 LAL -0.00 LOL 154.21 VL 26.978 GAL -1.91 AZL 86.27 MCA 227.84 SMA 124.58 ECC .19105 INC 3.7264 V1 30.099
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.179 GAP 8.14 AZP 92.50 TAL 188.15 TAP 55.99 RCA 100.78 APO 148.38 V2 34.945
 RC 157.792 GL 26.98 GP -26.50 ZAL 109.54 ZAP 148.51 ETS 308.60 ZAE 127.47 ETE 201.64 ZAC 135.60 ETC 189.80 CLP-162.34

PLANETOCENTRIC CONIC

C3 14.921 VHL 3.863 CLA 40.86 RAL 29.14 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 6.439 DPA -12.02 RAP 47.33 ECC 1.2456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.22 17 39 11 4107.87 -29.94 182.02 257.41 60.78 18 47 39 3507.9 -33.58 174.05
 120.78 0 33 37 2829.56 -29.93 84.45 257.41 60.77 1 20 47 2229.6 -33.57 76.48
 59.22 17 39 11 4107.87 -29.94 182.02 257.41 60.78 18 47 39 3507.9 -33.58 174.05
 120.78 0 33 37 2829.56 -29.93 84.45 257.41 60.77 1 20 47 2229.6 -33.57 76.48
 59.22 17 39 11 4107.87 -29.94 182.02 257.41 60.78 18 47 39 3507.9 -33.58 174.05
 120.78 0 33 37 2829.56 -29.93 84.45 257.41 60.77 1 20 47 2229.6 -33.57 76.48

DIFFERENTIAL CORRECTIONS

TDE 1.3862 TRA -.8008 TC3-5.4119 BAU 1.0821
 RDE .3328 RRA -.0051 RC3 -.3710 FAU .04862
 FDE .7465 FRA .0972 FC3-2.8211 BSP 15621
 BDE 1.4256 BRA .8009 BC3 5.4246 FSP -695

MID-COURSE EXECUTION ACCURACY

SGT 4916.8 SGR 570.9 SG3 211.9
 RRT .7941 RRF .8353 RTF .9194
 SGB 4949.9 R23 .1666 R13 .9209
 SGI 4937.8 SG2 345.5 THA 5.29

ORBIT DETERMINATION ACCURACY

ST 2113.2 SR 493.7 SS 617.8
 CRT .9752 CRS -.9975 CST -.9620
 LSA 2248.4 MSA 188.2 SSA 17.4
 EL1 2167.5 EL2 106.4 ALF 12.87

LAUNCH DATE FEB 23 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 474.615

RL 148.03 LAL -0.00 LOL 154.21 VL 26.929 GAL -1.55 AZL 86.59 MCA 231.02 SMA 124.27 ECC .19299 INC 3.4061 V1 30.099
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.156 GAP 8.39 AZP 92.14 TAL 186.49 TAP 57.51 RCA 100.29 APO 148.26 V2 34.957
 RC 159.953 GL 25.11 GP -24.88 ZAL 107.25 ZAP 150.31 ETS 308.69 ZAE 127.98 ETE 200.45 ZAC 137.82 ETC 189.35 CLP-163.26

PLANETOCENTRIC CONIC

C3 14.209 VHL 3.769 CLA 40.12 RAL 33.28 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 6.504 DPA -9.78 RAP 48.70 ECC 1.2338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.30 18 0 32 4083.43 -29.80 179.85 260.49 61.78 19 8 35 3483.4 -33.31 171.83
 119.70 0 45 16 2832.28 -29.79 84.59 260.48 61.77 1 32 28 2232.3 -33.30 76.57
 60.30 18 0 32 4083.43 -29.80 179.85 260.49 61.78 19 8 35 3483.4 -33.31 171.83
 119.70 0 45 16 2832.28 -29.79 84.59 260.48 61.77 1 32 28 2232.3 -33.30 76.57
 60.30 18 0 32 4083.43 -29.80 179.85 260.49 61.78 19 8 35 3483.4 -33.31 171.83
 119.70 0 45 16 2832.28 -29.79 84.59 260.48 61.77 1 32 28 2232.3 -33.30 76.57

DIFFERENTIAL CORRECTIONS

TDE 1.3612 TRA -.6389 TC3-5.7906 BAU 1.1021
 RDE .3228 RRA .0063 RC3 -.3588 FAU .04704
 FDE .6899 FRA .1803 FC3-2.8662 BSP 15875
 BDE 1.3990 BRA .6389 BC3 5.8017 FSP -687

MID-COURSE EXECUTION ACCURACY

SGT 4995.1 SGR 560.4 SG3 209.8
 RRT .7788 RRF .8109 RTF .9190
 SGB 5026.5 R23 .1461 R13 .9199
 SGI 5014.2 SG2 350.2 THA 5.02

ORBIT DETERMINATION ACCURACY

ST 2108.0 SR 490.7 SS 593.5
 CRT .9810 CRS -.9945 CST -.9600
 LSA 2236.9 MSA 179.8 SSA 19.5
 EL1 2162.3 EL2 92.7 ALF 12.89

LAUNCH DATE FEB 23 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 480.401

RL 148.03 LAL -0.00 LOL 154.21 VL 26.880 GAL -1.17 AZL 86.89 MCA 234.21 SMA 123.97 ECC .19512 INC 3.1131 V1 30.099
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.132 GAP 8.64 AZP 91.82 TAL 184.82 TAP 59.03 RCA 99.78 APO 148.16 V2 34.970
 RC 162.097 GL 23.27 GP -23.43 ZAL 104.71 ZAP 151.97 ETS 308.65 ZAE 128.41 ETE 199.38 ZAC 140.04 ETC 188.93 CLP-164.17

PLANETOCENTRIC CONIC

C3 13.649 VHL 3.695 CLA 39.40 RAL 37.53 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 6.585 DPA -7.72 RAP 50.18 ECC 1.2246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.38 18 22 30 4060.48 -29.58 177.78 263.83 62.69 19 30 10 3460.5 -32.98 169.72
 118.62 0 57 15 2837.59 -29.57 84.91 263.82 62.68 1 44 33 2237.6 -32.97 76.85
 61.38 18 22 30 4060.48 -29.58 177.78 263.83 62.69 19 30 10 3460.5 -32.98 169.72
 118.62 0 57 15 2837.59 -29.57 84.91 263.82 62.68 1 44 33 2237.6 -32.97 76.85
 61.38 18 22 30 4060.48 -29.58 177.78 263.83 62.69 19 30 10 3460.5 -32.98 169.72
 118.62 0 57 15 2837.59 -29.57 84.91 263.82 62.68 1 44 33 2237.6 -32.97 76.85

DIFFERENTIAL CORRECTIONS

TDE 1.3346 TRA -.4685 TC3-6.1291 BAU 1.1202
 RDE .3152 RRA .0176 RC3 -.3457 FAU .04525
 FDE .6342 FRA .2604 FC3-2.8700 BSP 16104
 BDE 1.3713 BRA .4688 BC3 6.1388 FSP -676

MID-COURSE EXECUTION ACCURACY

SGT 5067.3 SGR 552.7 SG3 207.0
 RRT .7625 RRF .7862 RTF .9185
 SGB 5097.4 R23 .1274 R13 .9192
 SGI 5084.9 SG2 356.4 THA 4.78

ORBIT DETERMINATION ACCURACY

ST 2093.3 SR 489.0 SS 567.8
 CRT .9885 CRS -.9986 CST -.9574
 LSA 2216.6 MSA 171.9 SSA 21.7
 EL1 2148.3 EL2 78.0 ALF 13.00

LAUNCH DATE FEB 23 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 486.174

RL 148.03 LAL -.00 LOL 154.21 VL 26.831 GAL -.77 AZL 87.16 MCA 237.40 SMA 123.67 ECC .19744 INC 2.8426 V1 30.099
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.110 GAP 8.91 AZP 91.53 TAL 183.14 TAP 60.54 RCA 99.25 APO 148.08 V2 34.983
 RC 164.221 GL 21.46 GP -22.15 ZAL 101.95 ZAP 153.51 ETS 308.47 ZAE 128.77 ETE 198.41 ZAC 142.26 ETC 188.52 CLP-165.08

PLANETOCENTRIC CONIC

C3 13.230 VHL 3.637 DLA 38.67 RAL 41.90 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 6.680 DPA -5.81 RAP 51.76 ECC 1.2177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.49 18 45 13 4038.51 -29.28 175.77 267.43 63.53 19 52 31 3438.5 -32.58 167.69
 117.51 1 9 21 2845.98 -29.27 85.43 267.42 63.52 1 56 47 2246.0 -32.57 77.35
 62.49 18 45 13 4038.51 -29.28 175.77 267.43 63.53 19 52 31 3438.5 -32.58 167.69
 117.51 1 9 21 2845.98 -29.27 85.43 267.42 63.52 1 56 47 2246.0 -32.57 77.35
 62.49 18 45 13 4038.51 -29.28 175.77 267.43 63.53 19 52 31 3438.5 -32.58 167.69
 117.51 1 9 21 2845.98 -29.27 85.43 267.42 63.52 1 56 47 2246.0 -32.57 77.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2984 TRA -.2929 TC3-6.4355 BAU 1.1398 SGT 5142.9 SGR 546.9 SG3 203.9 ST 2057.7 SR 486.5 SS 536.1
 RDE .3086 RRA .0283 RC3 -.3352 FAU .04355 RRT .7475 RRF .7620 RTF .9189 CRT .9912 CRS -.9816 CST -.9535
 FDE .5740 FRA .3348 FC3-2.8498 BSP 16406 SGB 5171.9 R23 .1080 R13 .9196 LSA 2175.0 MSA 164.4 SSA 24.2
 BDE 1.3346 BRA .2943 BC3 6.4442 FSP -670 SGI 5159.2 SG2 362.2 THA 4.57 EL1 2113.5 EL2 62.7 ALF 13.20

LAUNCH DATE FEB 23 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 491.931

RL 148.03 LAL -.00 LOL 154.21 VL 26.783 GAL -.36 AZL 87.41 MCA 240.59 SMA 123.37 ECC .19997 INC 2.5904 V1 30.099
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.087 GAP 9.17 AZP 91.27 TAL 181.45 TAP 62.04 RCA 98.70 APO 148.04 V2 34.996
 RC 166.326 GL 19.66 GP -20.99 ZAL 98.98 ZAP 154.93 ETS 308.15 ZAE 129.08 ETE 197.53 ZAC 144.50 ETC 188.12 CLP-165.97

PLANETOCENTRIC CONIC

C3 12.943 VHL 3.598 DLA 37.90 RAL 46.36 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 6.788 DPA -4.03 RAP 53.44 ECC 1.2130
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.67 19 8 52 4016.83 -28.89 173.76 271.25 64.31 20 15 49 3416.8 -32.09 165.67
 116.33 1 21 17 2858.19 -28.87 86.22 271.25 64.30 2 8 55 2258.2 -32.07 78.13
 63.67 19 8 52 4016.83 -28.89 173.76 271.25 64.31 20 15 49 3416.8 -32.09 165.67
 116.33 1 21 17 2858.19 -28.87 86.22 271.25 64.30 2 8 55 2258.2 -32.07 78.13
 63.67 19 8 52 4016.83 -28.89 173.76 271.25 64.31 20 15 49 3416.8 -32.09 165.67
 116.33 1 21 17 2858.19 -28.87 86.22 271.25 64.30 2 8 55 2258.2 -32.07 78.13

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2587 TRA -.1076 TC3-6.6711 BAU 1.1557 SGT 5206.3 SGR 542.9 SG3 199.7 ST 2010.9 SR 485.5 SS 506.1
 RDE .3045 RRA .0392 RC3 -.3211 FAU .04151 RRT .7301 RRF .7381 RTF .9195 CRT .9951 CRS -.9697 CST -.9488
 FDE .5180 FRA .4060 FC3-2.7766 BSP 16626 SGB 5234.5 R23 .0928 R13 .9200 LSA 2123.6 MSA 158.3 SSA 26.7
 BDE 1.2950 BRA .1145 BC3 6.6788 FSP -657 SGI 5221.5 SG2 369.9 THA 4.38 EL1 2068.1 EL2 46.9 ALF 13.52

LAUNCH DATE FEB 23 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 497.671

RL 148.03 LAL -.00 LOL 154.21 VL 26.736 GAL .06 AZL 87.65 MCA 243.78 SMA 123.08 ECC .20273 INC 2.3535 V1 30.099
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.065 GAP 9.45 AZP 91.04 TAL 179.76 TAP 63.54 RCA 98.13 APO 148.03 V2 35.010
 RC 168.410 GL 17.88 GP -19.96 ZAL 95.83 ZAP 156.25 ETS 307.68 ZAE 129.35 ETE 196.74 ZAC 146.75 ETC 187.72 CLP-166.85

PLANETOCENTRIC CONIC

C3 12.785 VHL 3.576 DLA 37.09 RAL 50.88 RAD 6567.5 VEL 11.583 PTH 2.03 VHP 6.909 DPA -2.39 RAP 55.19 ECC 1.2104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.97 19 33 34 3994.82 -28.38 171.69 275.29 65.05 20 40 8 3394.8 -31.49 163.60
 115.03 1 32 43 2874.93 -28.37 87.31 275.28 65.04 2 20 38 2274.9 -31.48 79.22
 64.97 19 33 34 3994.82 -28.38 171.69 275.29 65.05 20 40 8 3394.8 -31.49 163.60
 115.03 1 32 43 2874.93 -28.37 87.31 275.28 65.04 2 20 38 2274.9 -31.48 79.22
 64.97 19 33 34 3994.82 -28.38 171.69 275.29 65.05 20 40 8 3394.8 -31.49 163.60
 115.03 1 32 43 2874.93 -28.37 87.31 275.28 65.04 2 20 38 2274.9 -31.48 79.22

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2193 TRA .0925 TC3-6.8362 BAU 1.1696 SGT 5267.9 SGR 542.9 SG3 195.5 ST 1960.1 SR 487.3 SS 484.2
 RDE .3035 RRA .0516 RC3 -.3049 FAU .03929 RRT .7116 RRF .7182 RTF .9193 CRT .9975 CRS -.9534 CST -.9441
 FDE .4716 FRA .4797 FC3-2.6608 BSP 16889 SGB 5295.8 R23 .0862 R13 .9197 LSA 2071.0 MSA 155.6 SSA 29.0
 BDE 1.2565 BRA .1059 BC3 6.8430 FSP -655 SGI 5282.2 SG2 380.4 THA 4.22 EL1 2019.5 EL2 33.5 ALF 13.93

LAUNCH DATE FEB 23 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 503.393

RL 148.03 LAL -.00 LOL 154.21 VL 26.688 GAL .50 AZL 87.87 MCA 246.98 SMA 122.79 ECC .20572 INC 2.1291 V1 30.099
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.044 GAP 9.74 AZP 90.83 TAL 178.07 TAP 65.05 RCA 97.53 APO 148.05 V2 35.023
 RC 170.474 GL 16.12 GP -19.03 ZAL 92.55 ZAP 157.48 ETS 307.06 ZAE 129.58 ETE 196.03 ZAC 149.01 ETC 187.31 CLP-167.72

PLANETOCENTRIC CONIC

C3 12.757 VHL 3.572 DLA 36.21 RAL 55.45 RAD 6567.5 VEL 11.582 PTH 2.03 VHP 7.041 DPA -.85 RAP 57.03 ECC 1.2099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.42 19 59 29 3971.60 -27.77 169.50 279.49 65.76 21 5 40 3371.6 -30.79 161.42
 113.58 1 43 14 2897.20 -27.75 88.79 279.49 65.75 2 31 32 2297.2 -30.78 80.72
 66.42 19 59 29 3971.60 -27.77 169.50 279.49 65.76 21 5 40 3371.6 -30.79 161.42
 113.58 1 43 14 2897.20 -27.75 88.79 279.49 65.75 2 31 32 2297.2 -30.78 80.72
 66.42 19 59 29 3971.60 -27.77 169.50 279.49 65.76 21 5 40 3371.6 -30.79 161.42
 113.58 1 43 14 2897.20 -27.75 88.79 279.49 65.75 2 31 32 2297.2 -30.78 80.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1498 TRA .2913 TC3-6.9561 BAU 1.1874 SGT 5331.8 SGR 539.2 SG3 191.4 ST 1858.6 SR 481.5 SS 441.3
 RDE .2992 RRA .0628 RC3 -.2962 FAU .03763 RRT .6988 RRF .6958 RTF .9214 CRT .9976 CRS -.9250 CST -.9331
 FDE .4035 FRA .5416 FC3-2.5540 BSP 17030 SGB 5359.0 R23 .0679 R13 .9218 LSA 1963.6 MSA 155.8 SSA 31.1
 BDE 1.1881 BRA .2980 BC3 6.9624 FSP -624 SGI 5345.2 SG2 384.7 THA 4.06 EL1 1919.7 EL2 32.1 ALF 14.49

LAUNCH DATE FEB 23 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.641 GAL .96 AZL 88.09 HCA 250.18 SMA 122.51 ECC .20898 INC 1.9149 V1 30.099
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.023 GAP 10.04 AZP 90.65 TAL 176.37 TAP 66.55 RCA 96.91 APO 148.11 V2 35.036
 RC 172.518 GL 14.37 GP -18.19 ZAL 89.15 ZAP 158.63 ETS 306.28 ZAE 129.79 ETE 195.39 ZAC 151.29 ETC 186.89 CLP-168.58

PLANETOCENTRIC CONIC
 C3 12.862 VHL 3.586 DLA 35.26 RAL 60.02 RAD 6567.5 VEL 11.587 PTH 2.03 VHP 7.184 DPA .58 RAP 58.92 ECC 1.2117
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.06 20 26 46 3946.28 -27.03 167.11 283.84 66.45 21 32 32 3346.3 -29.97 159.06
 111.94 1 52 25 2926.04 -27.02 90.72 283.84 66.44 2 41 11 2326.0 -29.96 82.67
 68.06 20 26 46 3946.28 -27.03 167.11 283.84 66.45 21 32 32 3346.3 -29.97 159.06
 111.94 1 52 25 2926.04 -27.02 90.72 283.84 66.44 2 41 11 2326.0 -29.96 82.67
 68.06 20 26 46 3946.28 -27.03 167.11 283.84 66.45 21 32 32 3346.3 -29.97 159.06
 111.94 1 52 25 2926.04 -27.02 90.72 283.84 66.44 2 41 11 2326.0 -29.96 82.67

DIFFERENTIAL CORRECTIONS
 TOE 1.0776 TRA .5066 TC3-6.9822 BAU 1.2016
 RDE .2975 RRA .0754 RC3 -.2832 FAU .03570
 FDE .3440 FRA .6052 FC3-2.4027 BSP 17240
 BOE 1.1179 BRA .5122 BC3 6.9879 FSP -612

MID-COURSE EXECUTION ACCURACY
 SGT 5387.7 SGR 537.6 SG3 186.8
 RRT .6843 RRF .6762 RTF .9230
 SGB 5414.4 R23 .0567 R13 .9233
 SG1 5400.3 SG2 391.1 THA 3.93

ORBIT DETERMINATION ACCURACY
 ST 1753.5 SR 477.5 SS 407.4
 CRT .9943 CRS -.8847 CST -.9205
 LSA 1855.1 MSA 162.2 SSA 32.2
 EL1 1816.7 EL2 49.2 ALF 15.16

LAUNCH DATE FEB 23 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.595 GAL 1.43 AZL 88.29 HCA 253.38 SMA 122.23 ECC .21251 INC 1.7090 V1 30.099
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.002 GAP 10.35 AZP 90.49 TAL 174.68 TAP 68.05 RCA 96.25 APO 148.20 V2 35.050
 RC 174.540 GL 12.65 GP -17.43 ZAL 85.67 ZAP 159.70 ETS 305.32 ZAE 129.98 ETE 194.81 ZAC 153.58 ETC 186.44 CLP-169.43

PLANETOCENTRIC CONIC
 C3 13.106 VHL 3.620 DLA 34.23 RAL 64.55 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 7.339 DPA 1.91 RAP 60.88 ECC 1.2157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.92 20 55 41 3917.52 -26.18 164.44 288.30 67.12 22 0 59 3317.5 -29.04 156.43
 110.08 1 59 39 2962.92 -26.17 93.21 288.30 67.11 2 49 2 2362.9 -29.03 85.20
 69.92 20 55 41 3917.52 -26.18 164.44 288.30 67.12 22 0 59 3317.5 -29.04 156.43
 110.08 1 59 39 2962.92 -26.17 93.21 288.30 67.11 2 49 2 2362.9 -29.03 85.20
 69.92 20 55 41 3917.52 -26.18 164.44 288.30 67.12 22 0 59 3317.5 -29.04 156.43
 110.08 1 59 39 2962.92 -26.17 93.21 288.30 67.11 2 49 2 2362.9 -29.03 85.20

DIFFERENTIAL CORRECTIONS
 TOE .9938 TRA .7304 TC3-6.9274 BAU 1.2148
 RDE .2968 RRA .0884 RC3 -.2695 FAU .03377
 FDE .2855 FRA .6650 FC3-2.2307 BSP 17447
 BOE 1.0372 BRA .7357 BC3 6.9327 FSP -600

MID-COURSE EXECUTION ACCURACY
 SGT 5439.4 SGR 536.0 SG3 181.9
 RRT .6702 RRF .6580 RTF .9248
 SGB 5465.8 R23 .0471 R13 .9250
 SG1 5451.3 SG2 397.0 THA 3.80

ORBIT DETERMINATION ACCURACY
 ST 1634.7 SR 472.5 SS 376.3
 CRT .9852 CRS -.8268 CST -.9049
 LSA 1733.6 MSA 175.9 SSA 32.1
 EL1 1699.8 EL2 77.9 ALF 15.93

LAUNCH DATE FEB 23 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.549 GAL 1.93 AZL 88.49 HCA 256.58 SMA 121.95 ECC .21634 INC 1.5098 V1 30.099
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.981 GAP 10.67 AZP 90.35 TAL 172.98 TAP 69.56 RCA 95.57 APO 148.34 V2 35.063
 RC 176.542 GL 10.97 GP -16.74 ZAL 82.15 ZAP 160.71 ETS 304.19 ZAE 130.14 ETE 194.28 ZAC 155.87 ETC 185.94 CLP-170.27

PLANETOCENTRIC CONIC
 C3 13.500 VHL 3.674 DLA 33.13 RAL 69.01 RAD 6567.5 VEL 11.614 PTH 2.04 VHP 7.506 DPA 3.16 RAP 62.90 ECC 1.2222
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.05 21 26 37 3883.65 -25.22 161.37 292.84 67.77 22 31 21 3283.7 -28.00 153.40
 107.95 2 4 17 3009.61 -25.20 96.39 292.83 67.76 2 54 27 2409.6 -27.99 88.42
 72.05 21 26 37 3883.65 -25.22 161.37 292.84 67.77 22 31 21 3283.7 -28.00 153.40
 107.95 2 4 17 3009.61 -25.20 96.39 292.83 67.76 2 54 27 2409.6 -27.99 88.42
 110.00 3 21 15 2773.30 -30.51 80.18 294.93 73.78 4 7 28 2173.3 -32.43 71.49
 110.00 1 12 46 3167.96 -20.13 106.06 290.25 61.77 2 5 33 2568.0 -23.74 98.78

DIFFERENTIAL CORRECTIONS
 TOE .8983 TRA .9664 TC3-6.7928 BAU 1.2268
 RDE .2969 RRA .1023 RC3 -.2547 FAU .03185
 FDE .2280 FRA .7242 FC3-2.0425 BSP 17628
 BOE .9461 BRA .9718 BC3 6.7975 FSP -585

MID-COURSE EXECUTION ACCURACY
 SGT 5487.8 SGR 534.4 SG3 177.0
 RRT .6565 RRF .6415 RTF .9264
 SGB 5513.8 R23 .0397 R13 .9266
 SG1 5499.1 SG2 402.3 THA 3.68

ORBIT DETERMINATION ACCURACY
 ST 1508.7 SR 466.5 SS 350.5
 CRT .9665 CRS -.7455 CST -.8869
 LSA 1605.0 MSA 198.7 SSA 31.0
 EL1 1575.0 EL2 114.7 ALF 16.73

LAUNCH DATE FEB 23 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.503 GAL 2.45 AZL 88.68 HCA 259.79 SMA 121.68 ECC .22050 INC 1.3156 V1 30.099
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.961 GAP 11.02 AZP 90.23 TAL 171.28 TAP 71.08 RCA 94.85 APO 148.51 V2 35.076
 RC 178.523 GL 9.33 GP -16.12 ZAL 78.62 ZAP 161.65 ETS 302.87 ZAE 130.29 ETE 193.80 ZAC 158.18 ETC 185.37 CLP-171.10

PLANETOCENTRIC CONIC
 C3 14.054 VHL 3.749 DLA 31.96 RAL 73.36 RAD 6567.6 VEL 11.638 PTH 2.04 VHP 7.685 DPA 4.32 RAP 64.97 ECC 1.2313
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.53 22 0 12 3842.03 -24.15 157.71 297.43 68.41 23 4 14 3242.0 -26.86 149.79
 105.47 2 5 23 3068.84 -24.14 100.46 297.42 68.39 2 56 32 2468.8 -26.85 92.54
 74.53 22 0 12 3842.03 -24.15 157.71 297.43 68.41 23 4 14 3242.0 -26.86 149.79
 105.47 2 5 23 3068.84 -24.14 100.46 297.42 68.39 2 56 32 2468.8 -26.85 92.54
 110.00 4 7 15 2691.51 -31.91 74.22 300.16 77.05 4 52 7 2091.5 -33.37 65.29
 110.00 1 1 26 3267.36 -16.82 111.87 293.63 59.80 1 55 53 2667.4 -20.71 104.90

DIFFERENTIAL CORRECTIONS
 TOE .7937 TRA 1.2153 TC3-6.5755 BAU 1.2362
 RDE .2979 RRA .1170 RC3 -.2384 FAU .02990
 FDE .1729 FRA .7818 FC3-1.8421 BSP 17743
 BOE .8478 BRA 1.2209 BC3 6.5798 FSP -568

MID-COURSE EXECUTION ACCURACY
 SGT 5529.0 SGR 532.6 SG3 171.9
 RRT .6435 RRF .6264 RTF .9281
 SGB 5554.6 R23 .0338 R13 .9283
 SG1 5539.7 SG2 406.8 THA 3.57

ORBIT DETERMINATION ACCURACY
 ST 1387.4 SR 459.7 SS 332.0
 CRT .9324 CRS -.6405 CST -.8708
 LSA 1480.7 MSA 230.3 SSA 29.1
 EL1 1452.9 EL2 158.7 ALF 17.38

LAUNCH DATE FEB 23 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 531.651

RL 148.03 LAL -.00 LOL 154.21 VL 26.458 GAL 2.99 AZL 88.87 MCA 263.00 SMA 121.42 ECC .22502 INC 1.1252 V1 30.099
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.941 GAP 11.37 AZP 90.14 TAL 169.59 TAP 72.60 RCA 94.10 APO 148.74 V2 35.089
 RC 180.483 GL 7.76 GP -15.55 ZAL 75.12 ZAP 162.53 ETS 301.35 ZAE 130.43 ETE 193.37 ZAC 160.49 ETC 184.70 CLP-171.93

PLANETOCENTRIC CONIC

C3 14.783 VHL 3.845 DLA 30.74 RAL 77.56 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 7.877 DPA 5.39 RAP 67.09 ECC 1.2433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.52 22 37 54 3787.37 -23.00 153.10 302.03 69.03 23 41 1 3187.4 -25.64 145.23
 102.48 2 1 13 3145.92 -22.99 105.79 302.03 69.01 2 53 39 2545.9 -25.63 97.92
 77.52 22 37 54 3787.37 -23.00 153.10 302.03 69.03 23 41 1 3187.4 -25.64 145.23
 102.48 2 1 13 3145.92 -22.99 105.79 302.03 69.01 2 53 39 2545.9 -25.63 97.92
 110.00 4 46 23 2630.13 -32.76 69.63 305.13 79.64 5 30 13 2030.1 -33.84 60.56
 110.00 0 55 50 3351.16 -13.89 116.60 297.30 58.45 1 51 41 2751.2 -17.97 109.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6751 TRA 1.4731 TC3-6.3017 BAU 1.2462 SGT 5569.3 SGR 529.6 SG3 166.9 ST 1272.9 SR 451.2 SS 320.0
 RDE .2992 RRA .1320 RC3 -.2225 FAU .02809 RRT .6314 RRF .6119 RTF .9302 CRT .8740 CRS -.5087 CST -.8595
 FDE .1172 FRA .8361 FC3-1.6453 BSP 17920 SGB 5594.4 R23 .0276 R13 .9303 LSA 1361.1 MSA 270.3 SSA 26.9
 BOE .7385 BRA 1.4790 BC3 6.3056 FSP -555 SGI 5579.4 SG2 410.0 THA 3.45 EL1 1334.2 EL2 209.2 ALF 17.66

LAUNCH DATE FEB 23 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 537.211

RL 148.03 LAL -.00 LOL 154.21 VL 26.413 GAL 3.55 AZL 89.06 MCA 266.21 SMA 121.15 ECC .22992 INC .9372 V1 30.099
 RP 107.96 LAP -.94 LOP 60.42 VP 36.921 GAP 11.75 AZP 90.06 TAL 167.91 TAP 74.13 RCA 93.30 APO 149.01 V2 35.102
 RC 182.422 GL 6.25 GP -15.03 ZAL 71.68 ZAP 163.35 ETS 299.61 ZAE 130.56 ETE 192.97 ZAC 162.81 ETC 183.89 CLP-172.75

PLANETOCENTRIC CONIC

C3 15.707 VHL 3.963 DLA 29.48 RAL 81.60 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 8.084 DPA 6.39 RAP 69.24 ECC 1.2585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.45 23 23 39 3706.47 -21.78 146.57 306.64 69.63 24 25 25 3106.5 -24.35 138.76
 98.55 1 47 39 3254.04 -21.76 113.34 306.63 69.62 2 41 53 2654.0 -24.34 105.53
 100.00 2 40 50 3083.79 -25.01 101.92 307.83 73.08 3 32 14 2483.8 -27.09 93.73
 100.00 1 17 4 3351.95 -18.60 119.23 305.26 66.17 2 12 56 2751.9 -21.66 111.77
 110.00 5 21 31 2580.34 -33.31 65.85 309.94 81.82 6 4 31 1980.3 -34.08 56.70
 110.00 0 52 53 3428.17 -11.11 120.83 301.12 57.46 1 50 1 2828.2 -15.32 114.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5464 TRA 1.7441 TC3-5.9709 BAU 1.2545 SGT 5604.6 SGR 525.9 SG3 161.9 ST 1182.9 SR 441.9 SS 317.0
 RDE .3014 RRA .1477 RC3 -.2058 FAU .02632 RRT .6197 RRF .5983 RTF .9323 CRT .7821 CRS -.3623 CST -.8611
 FDE .0633 FRA .8896 FC3-1.4507 BSP 18088 SGB 5629.2 R23 .0222 R13 .9324 LSA 1262.9 MSA 315.2 SSA 24.7
 BOE .6240 BRA 1.7504 BC3 5.9744 FSP -542 SGI 5614.1 SG2 412.0 THA 3.35 EL1 1234.9 EL2 263.8 ALF 17.09

LAUNCH DATE FEB 23 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 542.730

RL 148.03 LAL -.00 LOL 154.21 VL 26.369 GAL 4.15 AZL 89.25 MCA 269.43 SMA 120.90 ECC .23524 INC .7506 V1 30.099
 RP 107.92 LAP -.75 LOP 63.64 VP 36.901 GAP 12.15 AZP 90.01 TAL 166.24 TAP 75.67 RCA 92.46 APO 149.34 V2 35.114
 RC 184.340 GL 4.82 GP -14.56 ZAL 68.32 ZAP 164.11 ETS 297.64 ZAE 130.67 ETE 192.61 ZAC 165.13 ETC 182.85 CLP-173.57

PLANETOCENTRIC CONIC

C3 16.847 VHL 4.105 DLA 28.20 RAL 85.44 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 8.306 DPA 7.32 RAP 71.44 ECC 1.2773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 1 3421.42 -22.24 125.80 311.86 72.00 2 13 2 2821.4 -24.49 117.86
 90.00 0 29 53 3571.06 -18.78 135.41 310.53 68.41 1 29 24 2971.1 -21.55 127.83
 100.00 3 38 42 2961.35 -27.17 93.46 313.37 77.03 4 28 4 2361.3 -28.68 84.98
 100.00 0 49 53 3506.37 -14.11 128.49 308.36 63.37 1 48 19 2906.4 -17.57 121.41
 110.00 5 53 38 2539.03 -33.66 62.68 314.65 83.66 6 35 57 1939.0 -34.17 53.47
 110.00 0 51 26 3501.45 -8.40 124.77 305.01 56.74 1 49 48 2901.5 -12.72 118.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4090 TRA 2.0294 TC3-5.5953 BAU 1.2609 SGT 5635.2 SGR 521.4 SG3 157.0 ST 1129.1 SR 431.9 SS 322.5
 RDE .3043 RRA .1640 RC3 -.1884 FAU .02456 RRT .6085 RRF .5859 RTF .9342 CRT .6528 CRS -.2170 CST -.8785
 FDE .0119 FRA .9428 FC3-1.2622 BSP 18232 SGB 5659.2 R23 .0181 R13 .9343 LSA 1198.5 MSA 358.3 SSA 22.7
 BOE .5098 BRA 2.0361 BC3 5.5984 FSP -528 SGI 5644.1 SG2 413.1 THA 3.24 EL1 1166.7 EL2 316.7 ALF 15.16

LAUNCH DATE FEB 23 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 548.204

RL 148.03 LAL -.00 LOL 154.21 VL 26.326 GAL 4.77 AZL 89.44 MCA 272.65 SMA 120.64 ECC .24103 INC .5640 V1 30.099
 RP 107.88 LAP -.56 LOP 66.85 VP 36.882 GAP 12.58 AZP 89.97 TAL 164.57 TAP 77.22 RCA 91.57 APO 149.72 V2 35.126
 RC 186.236 GL 3.47 GP -14.12 ZAL 65.08 ZAP 164.82 ETS 295.43 ZAE 130.77 ETE 192.27 ZAC 167.45 ETC 181.45 CLP-174.39

PLANETOCENTRIC CONIC

C3 18.231 VHL 4.270 DLA 26.91 RAL 89.08 RAD 6567.7 VEL 11.816 PTH 2.09 VHP 8.545 DPA 8.17 RAP 73.67 ECC 1.3000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 47 3258.51 -25.24 114.82 317.69 76.72 3 20 5 2658.5 -26.82 106.50
 90.00 23 45 15 3770.57 -13.36 147.55 313.30 64.80 24 48 6 3170.6 -16.65 140.41
 100.00 4 20 34 2888.50 -28.18 88.28 318.37 79.58 5 8 42 2288.5 -29.33 79.66
 100.00 0 37 6 3615.81 -10.68 134.81 311.93 61.91 1 37 22 3015.8 -14.35 127.95
 110.00 6 23 12 2504.74 -33.89 60.03 319.26 85.22 7 4 57 1904.7 -34.18 50.79
 110.00 0 50 57 3572.34 -5.73 128.53 308.94 56.24 1 50 29 2972.3 -10.13 122.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .2665 TRA 2.3322 TC3-5.1823 BAU 1.2637 SGT 5659.4 SGR 516.3 SG3 152.3 ST 1119.9 SR 421.8 SS 334.7
 RDE .3083 RRA .1810 RC3 -.1702 FAU .02279 RRT .5981 RRF .5748 RTF .9361 CRT .4967 CRS -.0887 CST -.9064
 FDE -.0359 FRA .9967 FC3-1.0824 BSP 18289 SGB 5682.9 R23 .0149 R13 .9362 LSA 1179.4 MSA 390.6 SSA 20.9
 BOE .4076 BRA 2.3392 BC3 5.1851 FSP -511 SGI 5667.9 SG2 413.1 THA 3.14 EL1 1141.5 EL2 359.1 ALF 11.78

LAUNCH DATE FEB 23 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.283 GAL 5.43 AZL 89.62 MCA 275.86 SMA 120.40 ECC .24732 INC .3761 V1 30.099
 RP 107.85 LAP -.37 LOP 70.07 VP 36.863 GAP 13.03 AZP 89.96 TAL 162.93 TAP 78.79 RCA 90.62 APO 150.17 V2 35.138
 RC 188.109 GL 2.21 GP -13.73 ZAL 61.96 ZAP 165.47 ETS 292.95 ZAE 130.86 ETE 191.96 ZAC 169.76 ETC 179.46 CLP-175.21

PLANETOCENTRIC CONIC
 C3 19.890 VHL 4.460 DLA 25.63 RAL 92.52 RAD 6567.8 VEL 11.886 PTH 2.11 VHP 8.802 DPA 8.95 RAP 75.93 ECC 1.3273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 9 10 3179.30 -26.36 109.29 322.70 79.27 4 2 9 2579.3 -27.58 100.83
 90.00 23 29 17 3890.88 -9.77 154.56 316.81 63.29 24 34 8 3290.9 -13.28 147.64
 100.00 4 55 50 2835.38 -28.77 84.44 323.16 81.51 5 43 6 2235.4 -29.64 75.75
 100.00 0 29 13 3710.03 -7.61 140.12 315.66 61.01 1 31 3 3110.0 -11.42 133.41
 110.00 6 50 29 2476.66 -34.03 57.85 323.81 86.50 7 31 46 1876.7 -34.14 48.60
 110.00 0 51 3 3641.51 -3.11 132.16 312.88 55.94 1 51 45 3041.5 -7.56 125.90

DIFFERENTIAL CORRECTIONS
 TDE .1130 TRA 2.6471 TC3-4.7601 BAU 1.2664 SGT 5681.2 SGR 509.7 SG3 147.6 ST 1147.9 SR 410.8 SS 351.1
 RDE .3128 RRA .1901 RC3 -.1528 FAU .02115 RRT .5877 RRF .5638 RTF .9383 CRT .3281 CRS .0252 CST -.9343
 FDE -.0830 FRA 1.0491 FC3 -.9205 BSP 18417 SGB 5704.0 R23 .0116 R13 .9383 LSA 1201.5 MSA 407.1 SSA 19.4
 BDE .3326 BRA 2.6545 BC3 4.7626 FSP -498 SG1 5689.1 SG2 411.8 THA 3.03 EL1 1156.8 EL2 385.0 ALF 7.54

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.240 GAL 6.13 AZL 89.81 MCA 279.09 SMA 120.15 ECC .25418 INC .1861 V1 30.099
 RP 107.81 LAP -.18 LOP 73.29 VP 36.843 GAP 13.52 AZP 89.97 TAL 161.30 TAP 80.38 RCA 89.61 APO 150.69 V2 35.150
 RC 189.959 GL 1.04 GP -13.37 ZAL 58.98 ZAP 166.06 ETS 290.20 ZAE 130.93 ETE 191.68 ZAC 172.05 ETC 176.35 CLP-176.03

PLANETOCENTRIC CONIC
 C3 21.864 VHL 4.676 DLA 24.38 RAL 95.74 RAD 6567.9 VEL 11.968 PTH 2.13 VHP 9.080 DPA 9.66 RAP 78.22 ECC 1.3598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 41 3124.16 -27.00 105.38 327.47 81.13 4 36 45 2524.2 -27.95 96.84
 90.00 23 19 29 3991.40 -6.64 160.29 320.51 62.41 24 26 0 3391.4 -10.29 153.51
 100.00 5 26 51 2794.77 -29.14 81.48 327.80 83.03 6 13 26 2194.8 -29.80 72.74
 100.00 0 23 56 3796.03 -4.75 144.90 319.47 60.45 1 27 12 3196.0 -8.65 138.28
 110.00 7 15 41 2454.27 -34.10 56.10 328.29 87.53 7 56 35 1854.3 -34.07 46.86
 110.00 0 51 35 3709.29 -.52 135.70 316.84 55.82 1 53 24 3109.3 -5.00 129.48

DIFFERENTIAL CORRECTIONS
 TDE -.0477 TRA 2.9786 TC3-4.3315 BAU 1.2667 SGT 5698.1 SGR 502.1 SG3 143.2 ST 1209.6 SR 399.5 SS 370.3
 RDE .3182 RRA .2154 RC3 -.1356 FAU .01954 RRT .5775 RRF .5533 RTF .9405 CRT .1701 CRS .1185 CST -.9570
 FDE -.1279 FRA 1.1019 FC3 -.7738 BSP 18534 SGB 5720.2 R23 .0089 R13 .9406 LSA 1262.4 MSA 407.5 SSA 18.0
 BDE .3218 BRA 2.9864 BC3 4.3336 FSP -485 SG1 5705.5 SG2 409.4 THA 2.93 EL1 1211.8 EL2 393.0 ALF 3.59

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.198 GAL 6.86 AZL 90.01 MCA 282.31 SMA 119.91 ECC .26167 INC .0000 V1 30.099
 RP 107.78 LAP .01 LOP 76.52 VP 36.824 GAP 14.04 AZP 90.00 TAL 159.69 TAP 82.00 RCA 88.54 APO 151.29 V2 35.161
 RC 191.786 GL -.04 GP -13.04 ZAL 56.16 ZAP 166.59 ETS 287.16 ZAE 130.99 ETE 191.41 ZAC 174.30 ETC 170.79 CLP-176.86

PLANETOCENTRIC CONIC
 C3 24.201 VHL 4.919 DLA 23.16 RAL 98.76 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 9.381 DPA 10.31 RAP 80.53 ECC 1.3983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 27 3083.27 -27.40 102.45 332.08 82.54 5 6 50 2483.3 -28.14 93.86
 90.00 23 12 46 4081.74 -3.77 165.38 324.29 61.91 24 20 48 3481.7 -7.50 158.68
 100.00 5 54 36 2763.56 -29.38 79.19 332.34 84.21 6 40 40 2163.6 -29.87 70.42
 100.00 0 20 14 3876.69 -2.03 149.34 323.32 60.17 1 24 50 3276.7 -5.98 142.79
 110.00 7 38 57 2437.14 -34.15 54.77 332.71 88.32 8 19 34 1837.1 -34.00 45.52
 110.00 0 52 23 3775.88 2.03 139.17 320.79 55.87 1 55 19 3175.9 -2.46 132.97

DIFFERENTIAL CORRECTIONS
 TDE -.2147 TRA 3.3289 TC3-3.9050 BAU 1.2640 SGT 5710.3 SGR 493.4 SG3 138.9 ST 1294.7 SR 388.0 SS 391.0
 RDE .3244 RRA .2328 RC3 -.1190 FAU .01798 RRT .5675 RRF .5432 RTF .9430 CRT .0355 CRS .1931 CST -.9726
 FDE -.1706 FRA 1.1556 FC3 -.6431 BSP 18624 SGB 5731.6 R23 .0065 R13 .9430 LSA 1349.7 MSA 397.3 SSA 16.9
 BDE .3890 BRA 3.3370 BC3 3.9069 FSP -472 SG1 5717.2 SG2 405.7 THA 2.82 EL1 1294.8 EL2 387.8 ALF .67

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC
 RL 148.03 LAL -.00 LOL 154.21 VL 26.157 GAL 7.65 AZL 90.21 MCA 285.53 SMA 119.68 ECC .26984 INC .2056 V1 30.099
 RP 107.75 LAP .20 LOP 79.74 VP 36.805 GAP 14.60 AZP 90.06 TAL 158.10 TAP 83.64 RCA 87.39 APO 151.98 V2 35.172
 RC 193.588 GL -1.03 GP -12.73 ZAL 53.50 ZAP 167.06 ETS 283.83 ZAE 131.03 ETE 191.16 ZAC 176.43 ETC 158.41 CLP-177.69

PLANETOCENTRIC CONIC
 C3 26.957 VHL 5.192 DLA 21.99 RAL 101.57 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 9.707 DPA 10.89 RAP 82.85 ECC 1.4436
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 43 3052.66 -27.65 100.25 336.58 83.62 5 33 35 2452.7 -28.24 91.63
 90.00 23 7 56 4165.60 -1.07 170.06 328.11 61.70 24 17 22 3565.6 -4.85 163.42
 100.00 6 19 40 2740.03 -29.53 77.46 336.79 85.11 7 5 20 2140.0 -29.89 68.67
 100.00 0 17 36 3953.47 .58 153.55 327.19 60.11 1 23 29 3353.5 -3.40 147.03
 110.00 8 0 23 2424.92 -34.17 53.81 337.08 88.88 8 40 48 1824.9 -33.94 44.57
 110.00 0 53 22 3841.34 4.52 142.60 324.73 56.08 1 57 23 3241.3 .04 136.38

DIFFERENTIAL CORRECTIONS
 TDE -.3854 TRA 3.7021 TC3-3.4850 BAU 1.2565 SGT 5717.4 SGR 483.7 SG3 134.7 ST 1392.8 SR 376.7 SS 411.8
 RDE .3316 RRA .2502 RC3 -.1026 FAU .01639 RRT .5576 RRF .5340 RTF .9455 CRT -.0709 CRS .2494 CST -.9828
 FDE -.2101 FRA 1.2116 FC3 -.5265 BSP 18626 SGB 5737.8 R23 .0051 R13 .9455 LSA 1450.9 MSA 382.0 SSA 15.9
 BDE .5085 BRA 3.7106 BC3 3.4865 FSP -457 SG1 5723.8 SG2 401.1 THA 2.71 EL1 1393.0 EL2 375.7 ALF 178.81

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 23 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 574.587

RL 148.03 LAL -.00 LOL 154.21 VL 26.116 GAL 8.48 AZL 90.41 HCA 288.76 SMA 119.45 ECC .27880 INC .4106 V1 30.099
 RP 107.71 LAP .39 LOP 82.97 VP 36.786 GAP 15.20 AZP 90.13 TAL 156.55 TAP 85.31 RCA 86.15 APO 152.76 V2 35.182
 RC 195.366 GL -1.93 GP -12.45 ZAL 50.99 ZAP 167.46 ETS 280.20 ZAE 131.05 ETE 190.92 ZAC 178.00 ETC 120.91 CLP -178.53

PLANETOCENTRIC CONIC

C3 30.201 VHL 5.496 CLA 20.86 RAL 104.18 RAD 6568.2 VEL 12.312 PTH 2.22 VHP 10.061 DPA 11.40 RAP 85.18 ECC 1.4970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 9 3030.23 -27.81 98.62 340.99 84.42 5 57 39 2430.2 -28.29 89.99
 90.00 23 4 20 4244.78 1.48 174.48 331.95 61.72 24 15 5 3644.8 -2.31 167.85
 100.00 6 42 25 2723.07 -29.62 76.21 341.17 85.77 7 27 48 2123.1 -29.89 67.41
 100.00 0 15 42 4027.18 3.07 157.60 331.07 60.25 1 22 49 3427.2 -.91 151.08
 110.00 8 20 9 2417.30 -34.18 53.22 341.40 89.24 9 0 26 1817.3 -33.90 43.98
 110.00 0 54 27 3905.71 6.96 145.99 328.67 56.45 1 59 33 3305.7 2.50 139.74

DIFFERENTIAL CORRECTIONS

TDE -.5668 TRA 4.0929 TC3-3.0883 BAU 1.2474
 ROE .3394 RRA .2670 RC3 -.0877 FAU .01492
 FDE -.2494 FRA 1.2678 FC3 -.4278 BSP 18710
 BOE .6607 BRA 4.1016 BC3 3.0895 FSP -444

MID-COURSE EXECUTION ACCURACY

SGT 5720.6 SGR 472.5 SG3 130.7
 RRT .5469 RRF .5240 RTF .9484
 SGB 5740.1 R23 .0034 R13 .9484
 SGI 5726.4 SG2 395.2 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 1495.5 SR 365.0 SS 432.8
 CRT -.1583 CRS .2975 CST -.9891
 LSA 1556.9 MSA 364.4 SSA 15.0
 EL1 1496.7 EL2 360.1 ALF 177.65

LAUNCH DATE FEB 23 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 579.583

RL 148.03 LAL -.00 LOL 154.21 VL 26.076 GAL 9.37 AZL 90.62 HCA 291.99 SMA 119.23 ECC .28863 INC .6237 V1 30.099
 RP 107.68 LAP .58 LOP 86.20 VP 36.767 GAP 15.85 AZP 90.23 TAL 155.04 TAP 87.03 RCA 84.82 APO 153.64 V2 35.192
 RC 197.118 GL -2.75 GP -12.20 ZAL 48.65 ZAP 167.79 ETS 276.27 ZAE 131.05 ETE 190.70 ZAC 177.54 ETC 59.17 CLP -179.39

PLANETOCENTRIC CONIC

C3 34.019 VHL 5.833 CLA 19.79 RAL 106.60 RAD 6568.3 VEL 12.466 PTH 2.25 VHP 10.448 DPA 11.86 RAP 87.52 ECC 1.5599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 12 3014.63 -27.90 97.49 345.32 84.98 6 19 27 2414.6 -28.31 88.85
 90.00 23 1 36 4320.31 3.91 178.70 335.81 61.93 24 13 37 3720.3 .13 172.06
 100.00 7 3 6 2711.85 -29.67 75.38 345.48 86.20 7 48 18 2111.8 -29.88 66.58
 100.00 0 14 20 4098.32 5.47 161.53 334.95 60.57 1 22 38 3498.3 1.51 154.98
 110.00 8 38 19 2413.94 -34.18 52.95 345.68 89.39 9 18 33 1813.9 -33.88 43.72
 110.00 0 55 36 3968.99 9.32 149.36 332.59 56.96 2 1 45 3369.0 4.91 143.06

DIFFERENTIAL CORRECTIONS

TDE -.7552 TRA 4.5075 TC3-2.7123 BAU 1.2340
 ROE .3481 RRA .2832 RC3 -.0737 FAU .01348
 FDE -.2872 FRA 1.3263 FC3 -.3430 BSP 18771
 BOE .8316 BRA 4.5164 BC3 2.7133 FSP -432

MID-COURSE EXECUTION ACCURACY

SGT 5719.0 SGR 460.2 SG3 126.9
 RRT .5357 RRF .5139 RTF .9514
 SGB 5737.5 R23 .0022 R13 .9514
 SGI 5724.4 SG2 388.2 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1597.7 SR 353.3 SS 453.5
 CRT -.2272 CRS .3359 CST -.9930
 LSA 1662.2 MSA 346.5 SSA 14.2
 EL1 1599.8 EL2 343.6 ALF 176.98

LAUNCH DATE FEB 23 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 584.443

RL 148.03 LAL -.00 LOL 154.21 VL 26.037 GAL 10.32 AZL 90.85 HCA 295.22 SMA 119.01 ECC .29944 INC .8468 V1 30.099
 RP 107.66 LAP .77 LOP 89.43 VP 36.748 GAP 16.57 AZP 90.36 TAL 153.56 TAP 88.78 RCA 83.37 APO 154.65 V2 35.201
 RC 198.846 GL -3.50 GP -11.96 ZAL 46.47 ZAP 168.03 ETS 272.07 ZAE 131.03 ETE 190.48 ZAC 175.68 ETC 35.33 CLP 179.73

PLANETOCENTRIC CONIC

C3 38.515 VHL 6.206 CLA 18.79 RAL 108.84 RAD 6568.5 VEL 12.645 PTH 2.30 VHP 10.872 DPA 12.25 RAP 89.86 ECC 1.6339
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 10 3004.88 -27.96 96.79 349.58 85.33 6 39 15 2404.9 -28.31 88.14
 90.00 22 59 30 4392.77 6.22 182.77 339.66 62.32 24 12 43 3792.8 2.47 176.11
 100.00 7 21 56 2705.72 -29.70 74.92 349.72 86.44 8 7 2 2105.7 -29.88 66.12
 100.00 0 13 21 4167.17 7.75 165.36 338.82 61.04 1 22 48 3567.2 3.83 158.77
 110.00 8 55 1 2414.52 -34.18 53.00 349.92 89.37 9 35 15 1814.5 -33.89 43.77
 110.00 0 56 46 4031.13 11.61 152.72 336.51 57.62 2 3 57 3431.1 7.26 146.34

DIFFERENTIAL CORRECTIONS

TDE -.9510 TRA 4.9487 TC3-2.3598 BAU 1.2155
 ROE .3577 RRA .2984 RC3 -.0609 FAU .01205
 FDE -.3238 FRA 1.3877 FC3 -.2710 BSP 18827
 BOE 1.0160 BRA 4.9577 BC3 2.3606 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 5713.0 SGR 446.6 SG3 123.2
 RRT .5236 RRF .5032 RTF .9547
 SGB 5730.5 R23 .0014 R13 .9547
 SGI 5717.9 SG2 380.2 THA 2.35

ORBIT DETERMINATION ACCURACY

ST 1695.4 SR 341.6 SS 473.7
 CRT -.2820 CRS .3673 CST -.9955
 LSA 1762.7 MSA 329.1 SSA 13.4
 EL1 1698.3 EL2 327.2 ALF 176.62

LAUNCH DATE FEB 23 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 589.141

RL 148.03 LAL -.00 LOL 154.21 VL 25.999 GAL 11.35 AZL 91.08 HCA 298.45 SMA 118.80 ECC .31135 INC 1.0824 V1 30.099
 RP 107.63 LAP .95 LOP 92.66 VP 36.729 GAP 17.35 AZP 90.52 TAL 152.14 TAP 90.60 RCA 81.81 APO 155.78 V2 35.209
 RC 200.549 GL -4.17 GP -11.74 ZAL 44.45 ZAP 168.20 ETS 267.61 ZAE 130.98 ETE 190.27 ZAC 173.54 ETC 26.57 CLP 178.83

PLANETOCENTRIC CONIC

C3 43.821 VHL 6.620 CLA 17.84 RAL 110.90 RAD 6568.7 VEL 12.852 PTH 2.34 VHP 11.338 DPA 12.59 RAP 92.19 ECC 1.7212
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 15 3000.25 -27.99 96.45 353.76 85.50 6 57 16 2400.2 -28.32 87.80
 90.00 22 57 52 4462.53 8.41 186.73 343.50 62.86 24 12 14 3862.5 4.70 180.01
 100.00 7 39 5 2704.11 -29.71 74.80 353.90 86.50 8 24 9 2104.1 -29.87 66.00
 100.00 0 12 39 4233.90 9.93 169.11 342.68 61.86 1 23 13 3633.9 6.07 162.46
 110.00 9 10 19 2418.71 -34.17 53.33 354.10 89.17 9 50 37 1818.7 -33.91 44.09
 110.00 0 57 55 4092.07 13.81 156.08 340.40 58.42 2 6 7 3492.1 9.53 149.59

DIFFERENTIAL CORRECTIONS

TDE -1.1525 TRA 5.4238 TC3-2.0297 BAU 1.1895
 ROE .3683 RRA .3125 RC3 -.0490 FAU .01060
 FDE -.3586 FRA 1.4534 FC3 -.2094 BSP 18776
 BOE 1.2099 BRA 5.4328 BC3 2.0303 FSP -406

MID-COURSE EXECUTION ACCURACY

SGT 5704.1 SGR 432.0 SG3 119.7
 RRT .5105 RRF .4922 RTF .9581
 SGB 5720.4 R23 .0012 R13 .9581
 SGI 5708.4 SG2 371.2 THA 2.22

ORBIT DETERMINATION ACCURACY

ST 1786.1 SR 330.0 SS 493.3
 CRT -.3253 CRS .3919 CST -.9971
 LSA 1855.9 MSA 312.8 SSA 12.8
 EL1 1789.5 EL2 311.5 ALF 176.45

LAUNCH DATE FEB 23 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 593.645

RL 148.03 LAL -1.00 LOL 154.21 VL 25.961 GAL 12.46 AZL 91.33 HCA 301.68 SMA 118.59 ECC .32453 INC 1.3328 V1 30.099
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.710 GAP 18.20 AZP 90.70 TAL 150.79 TAP 92.47 RCA 80.10 APO 157.08 V2 35.217
 RC 202.227 GL -4.78 GP -11.54 ZAL 42.59 ZAP 168.27 ETS 262.92 ZAE 130.90 ETE 190.07 ZAC 171.35 ETC 22.25 CLP 177.90

PLANETOCENTRIC CONIC

C3 50.098 VHL 7.078 CLA 16.95 RAL 112.80 RAD 6568.8 VEL 13.094 PTH 2.39 VHP 11.852 DPA 12.86 RAP 94.50 ECC 1.8245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 39 3000.10 -27.99 96.44 357.86 85.50 7 13 39 2400.1 -28.32 87.79
 90.00 22 56 34 4529.78 10.47 190.59 347.31 63.54 24 12 3 3929.8 6.84 183.80
 100.00 7 54 41 2706.54 -29.70 74.98 358.00 86.41 8 39 47 2106.5 -29.88 66.18
 100.00 0 12 9 4298.57 12.00 172.80 346.52 62.42 1 23 47 3698.6 8.21 166.06
 110.00 9 24 17 2426.17 -34.17 53.91 358.21 88.83 10 4 44 1826.2 -33.95 44.67
 110.00 0 59 2 4151.70 15.91 159.42 344.28 59.34 2 8 13 3551.7 11.72 152.82

DIFFERENTIAL CORRECTIONS

TDE-1.3672 TRA 5.9255 TC3-1.7296 BAU 1.1587
 RDE .3798 RRA .3247 RC3 -.0387 FAU .00921
 FDE -.3942 FRA 1.5223 FC3 -.1591 BSP 18794
 BOE 1.4190 BRA 5.9344 BC3 1.7300 FSP -395

MID-COURSE EXECUTION ACCURACY

SGT 5689.0 SGR 415.9 SG3 116.3
 RRT .4952 RRF .4790 RTF .9616
 SGB 5704.2 R23 .0011 R13 .9617
 SGI 5692.8 SG2 361.1 THA 2.08

ORBIT DETERMINATION ACCURACY

ST 1869.1 SR 318.3 SS 513.3
 CRT -.3632 CRS .4152 CST -.9981
 LSA 1941.6 MSA 296.8 SSA 12.1
 EL1 1872.7 EL2 296.0 ALF 176.37

LAUNCH DATE FEB 23 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 597.913

RL 148.03 LAL -1.00 LOL 154.21 VL 25.925 GAL 13.67 AZL 91.60 HCA 304.92 SMA 118.39 ECC .33916 INC 1.6015 V1 30.099
 RP 107.58 LAP 1.31 LOP 99.13 VP 36.691 GAP 19.15 AZP 90.92 TAL 149.50 TAP 94.42 RCA 78.24 APO 158.54 V2 35.225
 RC 203.880 GL -5.32 GP -11.36 ZAL 40.89 ZAP 168.24 ETS 258.07 ZAE 130.77 ETE 189.87 ZAC 169.17 ETC 19.72 CLP 176.94

PLANETOCENTRIC CONIC

C3 57.552 VHL 7.586 CLA 16.13 RAL 114.52 RAD 6569.0 VEL 13.376 PTH 2.44 VHP 12.421 DPA 13.09 RAP 96.79 ECC 1.9472
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 38 28 3003.89 -27.97 96.71 1.86 85.37 7 28 32 2403.9 -28.31 88.07
 90.00 22 55 30 4594.59 12.41 194.37 351.09 64.34 24 12 5 3994.6 8.86 187.49
 100.00 8 8 49 2712.54 -29.67 75.43 2.01 86.17 8 54 2 2112.5 -29.88 66.63
 100.00 0 11 47 4361.17 13.94 176.43 350.32 63.29 1 24 28 3761.2 10.25 169.59
 110.00 9 37 1 2436.57 -34.15 54.72 2.26 88.35 10 17 38 1836.6 -34.00 45.48
 110.00 1 0 4 4209.90 17.90 162.76 348.12 60.38 2 10 14 3609.9 13.82 156.02

DIFFERENTIAL CORRECTIONS

TDE-1.5923 TRA 6.4647 TC3-1.4547 BAU 1.1195
 RDE .3922 RRA .3346 RC3 -.0295 FAU .00780
 FDE -.4298 FRA 1.5962 FC3 -.1173 BSP 18813
 BOE 1.6399 BRA 6.4733 BC3 1.4550 FSP -384

MID-COURSE EXECUTION ACCURACY

SGT 5670.1 SGR 398.7 SG3 113.0
 RRT .4776 RRF .4638 RTF .9653
 SGB 5684.1 R23 .0012 R13 .9653
 SGI 5673.3 SG2 350.1 THA 1.93

ORBIT DETERMINATION ACCURACY

ST 1943.1 SR 306.6 SS 533.5
 CRT -.3959 CRS .4359 CST -.9988
 LSA 2018.6 MSA 281.5 SSA 11.5
 EL1 1947.0 EL2 281.0 ALF 176.35

LAUNCH DATE FEB 23 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 601.892

RL 148.03 LAL -1.00 LOL 154.21 VL 25.889 GAL 14.99 AZL 91.89 HCA 308.15 SMA 118.20 ECC .35543 INC 1.8924 V1 30.099
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.673 GAP 20.20 AZP 91.17 TAL 148.30 TAP 96.45 RCA 76.19 APO 160.21 V2 35.232
 RC 205.508 GL -5.81 GP -11.19 ZAL 39.35 ZAP 168.11 ETS 253.10 ZAE 130.60 ETE 189.66 ZAC 167.01 ETC 18.08 CLP 175.94

PLANETOCENTRIC CONIC

C3 66.445 VHL 8.151 CLA 15.37 RAL 116.08 RAD 6569.3 VEL 13.704 PTH 2.50 VHP 13.056 DPA 13.26 RAP 99.05 ECC 2.0935
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 51 49 3011.13 -27.93 97.24 5.77 85.11 7 42 0 2411.1 -28.31 88.60
 90.00 22 54 38 4656.93 14.22 198.05 354.82 65.25 24 12 15 4056.9 10.76 191.08
 100.00 8 21 34 2721.69 -29.63 76.10 5.92 85.82 9 6 56 2121.7 -29.89 67.31
 100.00 0 11 30 4421.61 15.76 180.00 354.07 64.27 1 25 12 3821.6 12.17 173.05
 110.00 9 48 32 2449.58 -34.12 55.74 6.22 87.75 10 29 22 1849.6 -34.05 46.49
 110.00 1 1 1 4266.48 19.77 166.08 351.91 61.53 2 12 8 3666.5 15.81 159.19

DIFFERENTIAL CORRECTIONS

TDE-1.8296 TRA 7.0456 TC3-1.2046 BAU 1.0702
 RDE .4060 RRA .3417 RC3 -.0215 FAU .00635
 FDE -.4657 FRA 1.6763 FC3 -.0827 BSP 18814
 BOE 1.8741 BRA 7.0538 BC3 1.2048 FSP -374

MID-COURSE EXECUTION ACCURACY

SGT 5647.1 SGR 380.4 SG3 109.9
 RRT .4568 RRF .4457 RTF .9690
 SGB 5659.9 R23 .0016 R13 .9690
 SGI 5649.8 SG2 338.2 THA 1.77

ORBIT DETERMINATION ACCURACY

ST 2007.8 SR 295.0 SS 554.4
 CRT -.4251 CRS .4553 CST -.9992
 LSA 2086.7 MSA 266.8 SSA 10.9
 EL1 2011.8 EL2 266.5 ALF 176.36

LAUNCH DATE FEB 23 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 605.516

RL 148.03 LAL -1.00 LOL 154.21 VL 25.855 GAL 16.43 AZL 92.21 HCA 311.39 SMA 118.01 ECC .37360 INC 2.2103 V1 30.099
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.654 GAP 21.37 AZP 91.46 TAL 147.21 TAP 98.59 RCA 73.92 APO 162.10 V2 35.238
 RC 207.111 GL -6.25 GP -11.03 ZAL 37.96 ZAP 167.86 ETS 248.07 ZAE 130.38 ETE 189.45 ZAC 164.88 ETC 16.94 CLP 174.89

PLANETOCENTRIC CONIC

C3 77.114 VHL 8.781 CLA 14.68 RAL 117.49 RAD 6569.5 VEL 14.088 PTH 2.57 VHP 13.765 DPA 13.39 RAP 101.26 ECC 2.2691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 45 3021.39 -27.86 97.98 9.55 84.74 7 54 7 2421.4 -28.30 89.35
 90.00 22 53 52 4716.72 15.89 201.65 358.47 66.25 24 12 29 4116.7 12.55 194.57
 100.00 8 33 0 2733.60 -29.56 76.98 9.71 85.36 9 18 33 2133.6 -29.89 68.19
 100.00 0 11 15 4479.74 17.45 183.49 357.74 65.34 1 25 55 3879.7 13.98 176.42
 110.00 9 58 53 2464.87 -34.07 56.93 10.07 87.04 10 39 58 1864.9 -34.10 47.68
 110.00 1 1 51 4321.24 21.51 169.38 355.65 62.77 2 13 53 3721.2 17.69 162.33

DIFFERENTIAL CORRECTIONS

TDE-2.0762 TRA 7.6777 TC3 -.9759 BAU 1.0062
 RDE .4212 RRA .3452 RC3 -.0147 FAU .00478
 FDE -.5015 FRA 1.7648 FC3 -.0536 BSP 18704
 BOE 2.1185 BRA 7.6855 BC3 .9760 FSP -362

MID-COURSE EXECUTION ACCURACY

SGT 5620.4 SGR 361.2 SG3 107.0
 RRT .4325 RRF .4242 RTF .9727
 SGB 5632.0 R23 .0024 R13 .9727
 SGI 5622.6 SG2 325.5 THA 1.60

ORBIT DETERMINATION ACCURACY

ST 2061.9 SR 283.6 SS 576.0
 CRT -.4511 CRS .4731 CST -.9995
 LSA 2144.6 MSA 252.8 SSA 10.4
 EL1 2065.9 EL2 252.6 ALF 176.40

LAUNCH DATE FEB 23 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 608.697

RL 148.03 LAL -0.00 LOL 154.21 VL 25.822 GAL 18.03 AZL 92.56 HCA 314.62 SMA 117.83 ECC .39398 INC 2.5618 V1 30.099
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.636 GAP 22.68 AZP 91.80 TAL 146.24 TAP 100.86 RCA 71.41 APO 164.26 V2 35.243
 RC 208.690 GL -6.64 GP -10.88 ZAL 36.74 ZAP 167.48 ETS 243.04 ZAE 130.09 ETE 189.24 ZAC 162.82 ETC 16.11 CLP 173.77

PLANETOCENTRIC CONIC

C3 89.995 VHL 9.487 OLA 14.05 RAL 118.72 RAD 6569.8 VEL 14.538 PTH 2.64 VHP 14.564 DPA 13.47 RAP 103.41 ECC 2.4811
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 14 19 3034.25 -27.78 98.92 13.18 84.28 8 4 53 2434.3 -28.28 90.29
 90.00 22 53 11 4773.77 17.42 205.13 2.02 67.32 24 12 45 4173.8 14.20 197.94
 100.00 8 43 7 2747.90 -29.48 78.04 13.36 84.81 9 28 55 2147.9 -29.89 69.26
 100.00 0 11 0 4535.36 18.99 186.90 1.32 66.48 1 26 36 3935.4 15.65 179.70
 110.00 10 8 3 2482.11 -34.00 58.27 13.78 86.25 10 49 25 1882.1 -34.15 49.03
 110.00 1 2 33 4373.91 23.12 172.62 359.29 64.09 2 15 27 3773.9 19.44 165.41

DIFFERENTIAL CORRECTIONS

TOE-2.3430 TRA 8.3584 TC3 -.7728 BAU .9298
 RDE .4380 RRA .3440 RC3 -.0092 FAU .00315
 FDE -.5398 FRA 1.8609 FC3 -.0303 BSP 18696
 BOE 2.3836 BRA 8.3655 BC3 .7728 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 5588.7 SGR 340.8 SG3 104.1
 RRT .4021 RRF .3967 RTF .9764
 SGB 5599.1 R23 .0031 R13 .9764
 SG1 5590.4 SG2 312.0 THA 1.41

ORBIT DETERMINATION ACCURACY

ST 2107.5 SR 272.3 SS 599.7
 CRT -.4776 CRS .4927 CST -.9997
 LSA 2195.1 MSA 238.8 SSA 9.8
 EL1 2111.6 EL2 238.7 ALF 176.42

LAUNCH DATE FEB 23 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 611.322

RL 148.03 LAL -0.00 LOL 154.21 VL 25.791 GAL 19.81 AZL 92.95 HCA 317.85 SMA 117.66 ECC .41690 INC 2.9548 V1 30.099
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.619 GAP 24.17 AZP 92.19 TAL 145.43 TAP 103.28 RCA 68.61 APO 166.72 V2 35.248
 RC 210.244 GL -6.99 GP -10.74 ZAL 35.68 ZAP 166.97 ETS 238.07 ZAE 129.72 ETE 189.01 ZAC 160.82 ETC 15.50 CLP 172.58

PLANETOCENTRIC CONIC

C3 105.661 VHL 10.279 OLA 13.49 RAL 119.79 RAD 6570.0 VEL 15.067 PTH 2.71 VHP 15.467 DPA 13.51 RAP 105.49 ECC 2.7389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 23 31 3049.37 -27.67 100.01 16.64 83.74 8 14 20 2449.4 -28.25 91.39
 90.00 22 52 30 4827.83 18.81 208.50 5.44 68.44 24 12 58 4227.8 15.72 201.19
 100.00 8 51 55 2764.24 -29.37 79.24 16.84 84.19 9 38 0 2164.2 -29.87 70.47
 100.00 0 10 42 4588.19 20.40 190.20 4.76 67.66 1 27 11 3988.2 17.19 182.87
 110.00 10 16 3 2501.00 -33.91 59.74 17.33 85.39 10 57 44 1901.0 -34.17 50.50
 110.00 1 3 4 4424.20 24.57 175.80 2.80 65.46 2 16 48 3824.2 21.05 168.42

DIFFERENTIAL CORRECTIONS

TOE-2.6266 TRA 9.1007 TC3 -.5904 BAU .8340
 RDE .4569 RRA .3370 RC3 -.0048 FAU .00136
 FDE -.5800 FRA 1.9676 FC3 -.0111 BSP 18659
 BOE 2.6660 BRA 9.1070 BC3 .5904 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5552.5 SGR 319.8 SG3 101.4
 RRT .3643 RRF .3618 RTF .9799
 SGB 5561.7 R23 .0040 R13 .9799
 SG1 5553.8 SG2 297.8 THA 1.21

ORBIT DETERMINATION ACCURACY

ST 2143.4 SR 261.2 SS 625.4
 CRT -.5040 CRS .5132 CST -.9998
 LSA 2236.6 MSA 225.2 SSA 9.3
 EL1 2147.4 EL2 225.2 ALF 176.45

LAUNCH DATE FEB 23 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 613.244

RL 148.03 LAL -0.00 LOL 154.21 VL 25.762 GAL 21.80 AZL 93.40 HCA 321.09 SMA 117.51 ECC .44279 INC 3.4003 V1 30.099
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.602 GAP 25.86 AZP 92.65 TAL 144.80 TAP 105.89 RCA 65.48 APO 169.54 V2 35.252
 RC 211.773 GL -7.29 GP -10.60 ZAL 34.81 ZAP 166.31 ETS 233.21 ZAE 129.26 ETE 188.77 ZAC 158.90 ETC 15.05 CLP 171.30

PLANETOCENTRIC CONIC

C3 124.873 VHL 11.175 OLA 13.00 RAL 120.68 RAD 6570.3 VEL 15.691 PTH 2.79 VHP 16.495 DPA 13.53 RAP 107.48 ECC 3.0551
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 31 18 3066.43 -27.54 101.24 19.90 83.14 8 22 25 2466.4 -28.20 92.64
 90.00 22 51 48 4878.57 20.05 211.70 8.68 69.57 24 13 6 4278.6 17.09 204.28
 100.00 8 59 24 2782.33 -29.24 80.57 20.12 83.50 9 45 46 2182.3 -29.83 71.82
 100.00 0 10 19 4637.90 21.65 193.36 8.03 68.87 1 27 37 4037.9 18.59 185.90
 110.00 10 22 50 2521.27 33.79 61.31 20.68 84.47 11 4 51 1921.3 -34.18 52.09
 110.00 1 3 23 4471.73 25.88 178.87 6.15 66.85 2 17 54 3871.7 22.52 171.33

DIFFERENTIAL CORRECTIONS

TOE-2.9288 TRA 9.9130 TC3 -.4278 BAU .7142
 RDE .4784 RRA .3228 RC3 -.0015 FAU-.00069
 FDE -.6227 FRA 2.0871 FC3 .0048 BSP 18596
 BOE 2.9676 BRA 9.9182 BC3 .4278 FSP -334

MID-COURSE EXECUTION ACCURACY

SGT 5511.9 SGR 298.4 SG3 98.8
 RRT .3168 RRF .3170 RTF .9832
 SGB 5519.9 R23 .0050 R13 .9832
 SG1 5512.7 SG2 283.0 THA .98

ORBIT DETERMINATION ACCURACY

ST 2169.1 SR 250.5 SS 653.9
 CRT -.5311 CRS .5353 CST -.9999
 LSA 2269.4 MSA 211.9 SSA 8.7
 EL1 2173.2 EL2 211.9 ALF 176.46

LAUNCH DATE FEB 23 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 614.266

RL 148.03 LAL -0.00 LOL 154.21 VL 25.735 GAL 24.04 AZL 93.91 HCA 324.32 SMA 117.36 ECC .47214 INC 3.9130 V1 30.099
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.587 GAP 27.79 AZP 93.18 TAL 144.40 TAP 108.72 RCA 61.95 APO 172.78 V2 35.255
 RC 213.276 GL -7.56 GP -10.47 ZAL 34.12 ZAP 165.49 ETS 228.48 ZAE 128.68 ETE 188.50 ZAC 157.10 ETC 14.71 CLP 169.90

PLANETOCENTRIC CONIC

C3 148.647 VHL 12.192 OLA 12.59 RAL 121.37 RAD 6570.6 VEL 16.431 PTH 2.87 VHP 17.673 DPA 13.52 RAP 109.35 ECC 3.4464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 37 38 3085.18 -27.38 102.59 22.91 82.48 8 29 3 2485.2 -28.14 94.00
 90.00 22 51 1 4925.60 21.14 214.72 11.70 70.71 24 13 6 4325.6 18.31 207.19
 100.00 9 5 27 2801.93 -29.08 82.01 23.16 82.76 9 52 9 2201.9 -29.78 73.27
 100.00 0 9 48 4684.07 22.75 196.34 11.08 70.07 1 27 52 4084.1 19.83 188.77
 110.00 10 28 19 2542.66 -33.63 62.96 23.80 83.50 11 10 41 1942.7 -34.17 53.76
 110.00 1 3 26 4516.11 27.04 181.80 9.28 68.24 2 18 42 3916.1 23.84 174.10

DIFFERENTIAL CORRECTIONS

TOE-3.2487 TRA10.8078 TC3 -.2829 BAU .5622
 RDE .5032 RRA .2993 RC3 .0007 FAU-.00312
 FDE -.6679 FRA 2.2223 FC3 .0182 BSP 18438
 BOE 3.2874 BRA10.8119 BC3 .2829 FSP -324

MID-COURSE EXECUTION ACCURACY

SGT 5467.2 SGR 276.9 SG3 96.4
 RRT .2562 RRF .2591 RTF .9862
 SGB 5474.2 R23 .0061 R13 .9862
 SG1 5467.6 SG2 267.7 THA .75

ORBIT DETERMINATION ACCURACY

ST 2183.7 SR 240.4 SS 685.5
 CRT -.5591 CRS .5590 CST -.9999
 LSA 2292.8 MSA 199.0 SSA 8.1
 EL1 2187.9 EL2 198.9 ALF 176.45

LAUNCH DATE FEB 24 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 5 1969

HELIOCENTRIC CONIC

DISTANCE 190.783

RL 148.06 LAL -0.00 LOL 155.21 VL 27.574 GAL -9.61 AZL 89.09 HCA 85.64 SMA 128.56 ECC .22411 INC .9135 V1 30.092
 RP 108.45 LAP .91 LOP 240.85 VP 37.617 GAP -9.36 AZP 89.93 TAL 218.51 TAP 304.15 RCA 99.74 APO 157.37 V2 34.942
 RC 56.186 GL 4.29 GP 17.93 ZAL 149.55 ZAP 25.50 ETS 320.20 ZAE 146.72 ETE 22.28 ZAC 126.78 ETC 148.57 CLP -18.43

PLANETOCENTRIC CONIC

C3 33.608 VHL 5.797 DLA 6.08 RAL 3.24 RAD 6568.3 VEL 12.449 PTH 2.25 VHP 7.022 DPA 30.44 RAP 33.43 ECC 1.5531
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 40 2531.78 -25.79 62.61 235.57 102.12 1 16 52 1931.8 -23.86 54.47
 90.00 14 3 36 4797.03 18.03 206.57 231.79 67.79 15 23 33 4197.0 14.86 199.33
 100.00 1 58 54 2260.12 -27.06 42.31 235.25 103.22 2 36 34 1660.1 -24.97 34.13
 100.00 15 22 4 4543.92 19.23 187.43 231.26 66.66 16 37 48 3943.9 15.90 180.21
 110.00 3 13 44 2025.90 -30.47 23.50 234.23 106.31 3 47 30 1425.9 -27.93 15.22
 110.00 16 23 43 4350.91 22.42 171.19 229.67 63.50 17 36 13 3750.9 18.68 164.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1680 TRA -.2926 TC3 .4194 BAU .2097 SGT 590.4 SGR 477.0 SG3 137.4 ST 188.1 SR 340.2 SS 184.9
 RDE -.3359 RRA .2485 RC3 .2047 FAU .05015 RRT .3504 RRF -.5030 RTF -.5842 CRT .7617 CRS -.7528 CST -.9747
 FDE -.2704 FRA -.4678 FC3-1.2917 BSP 1694 SGB 759.1 R23 -.0985 R13 -.6580 LSA 405.1 MSA 142.5 SSA 29.6
 BDE .3755 BRA .3839 BC3 .4667 FSP -360 SG1 635.5 SG2 415.1 THA 29.24 EL1 372.4 EL2 111.3 ALF 64.75

LAUNCH DATE FEB 24 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 197.530

RL 148.06 LAL -0.00 LOL 155.21 VL 27.703 GAL -9.54 AZL 89.27 HCA 88.82 SMA 129.45 ECC .21808 INC .7277 V1 30.092
 RP 108.49 LAP .73 LOP 244.03 VP 37.700 GAP -8.51 AZP 89.98 TAL 219.90 TAP 308.72 RCA 101.22 APO 157.68 V2 34.929
 RC 58.051 GL 3.48 GP 19.15 ZAL 150.74 ZAP 28.53 ETS 323.26 ZAE 146.45 ETE 25.01 ZAC 126.13 ETC 147.81 CLP -21.57

PLANETOCENTRIC CONIC

C3 32.668 VHL 5.716 DLA 4.90 RAL 2.54 RAD 6568.3 VEL 12.411 PTH 2.24 VHP 6.603 DPA 31.58 RAP 32.93 ECC 1.5376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 52 2487.51 -25.12 59.54 233.87 103.52 1 22 19 1887.5 -23.01 51.50
 90.00 13 51 53 4827.00 18.79 208.44 230.84 68.42 15 12 20 4227.0 15.69 201.14
 100.00 2 4 30 2217.71 -26.36 39.35 233.52 104.63 2 41 28 1617.7 -24.09 31.28
 100.00 15 10 55 4572.03 19.98 189.18 230.33 67.29 16 27 7 3972.0 16.73 181.90
 110.00 3 18 2 1987.59 -29.70 20.78 232.42 107.76 3 51 10 1387.6 -26.99 12.64
 110.00 16 13 53 4374.91 23.14 172.68 228.79 64.11 17 26 48 3774.9 19.47 165.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1569 TRA -.2854 TC3 .4315 BAU .2162 SGT 592.0 SGR 498.5 SG3 154.7 ST 179.9 SR 329.8 SS 217.3
 RDE -.3193 RRA .2615 RC3 .2424 FAU .05517 RRT .3778 RRF -.5571 RTF -.5801 CRT .7358 CRS -.7621 CST -.9756
 FDE -.3398 FRA -.5402 FC3-1.4620 BSP 1745 SGB 774.0 R23 -.1143 R13 -.6758 LSA 406.5 MSA 149.0 SSA 30.2
 BDE .3558 BRA .3871 BC3 .4950 FSP -412 SG1 649.7 SG2 420.6 THA 32.71 EL1 358.6 EL2 112.0 ALF 65.59

LAUNCH DATE FEB 24 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 204.251

RL 148.06 LAL -0.00 LOL 155.21 VL 27.815 GAL -9.48 AZL 89.46 HCA 92.00 SMA 130.24 ECC .21288 INC .5426 V1 30.092
 RP 108.53 LAP .54 LOP 247.21 VP 37.772 GAP -7.72 AZP 90.02 TAL 221.18 TAP 313.18 RCA 102.52 APO 157.97 V2 34.917
 RC 59.985 GL 2.64 GP 20.48 ZAL 151.80 ZAP 31.79 ETS 325.92 ZAE 146.33 ETE 28.11 ZAC 125.27 ETC 147.13 CLP -24.87

PLANETOCENTRIC CONIC

C3 31.877 VHL 5.646 DLA 3.73 RAL 1.98 RAD 6568.3 VEL 12.379 PTH 2.23 VHP 6.218 DPA 32.75 RAP 32.18 ECC 1.5246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 21 2444.91 -24.41 56.62 232.40 104.82 1 28 6 1844.9 -22.14 48.68
 90.00 13 40 51 4857.24 19.54 210.35 230.11 69.08 15 1 49 4257.2 16.52 202.97
 100.00 2 10 27 2176.91 -25.63 36.54 232.03 105.94 2 46 43 1576.9 -23.20 28.59
 100.00 15 0 27 4600.48 20.71 190.97 229.62 67.95 16 17 8 4000.5 17.54 183.62
 110.00 3 22 42 1950.78 -28.91 18.21 230.86 109.09 3 55 12 1350.8 -26.03 10.21
 110.00 16 4 42 4399.37 23.86 174.22 228.13 64.77 17 18 1 3799.4 20.27 166.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1467 TRA -.2816 TC3 .4368 BAU .2222 SGT 589.4 SGR 524.6 SG3 173.6 ST 172.5 SR 316.5 SS 252.0
 RDE -.3005 RRA .2759 RC3 .2848 FAU .06065 RRT .3998 RRF -.6116 RTF -.5693 CRT .7015 CRS -.7644 CST -.9734
 FDE -.4197 FRA -.6176 FC3-1.6472 BSP 1796 SGB 789.1 R23 -.1298 R13 -.6948 LSA 410.2 MSA 155.7 SSA 30.5
 BDE .3344 BRA .3943 BC3 .5214 FSP -471 SG1 663.4 SG2 427.2 THA 36.86 EL1 342.1 EL2 113.8 ALF 66.30

LAUNCH DATE FEB 24 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 210.945

RL 148.06 LAL -0.00 LOL 155.21 VL 27.913 GAL -9.42 AZL 89.64 HCA 95.18 SMA 130.94 ECC .20841 INC .3567 V1 30.092
 RP 108.57 LAP .36 LOP 250.39 VP 37.832 GAP -6.96 AZP 90.03 TAL 222.33 TAP 317.51 RCA 103.65 APO 158.23 V2 34.906
 RC 61.981 GL 1.76 GP 21.92 ZAL 152.73 ZAP 35.28 ETS 328.31 ZAE 146.31 ETE 31.63 ZAC 124.19 ETC 146.57 CLP -28.36

PLANETOCENTRIC CONIC

C3 31.205 VHL 5.586 DLA 2.58 RAL 1.53 RAD 6568.2 VEL 12.352 PTH 2.23 VHP 5.867 DPA 33.96 RAP 31.17 ECC 1.5136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 10 2403.79 -23.66 53.84 231.15 106.02 1 34 14 1803.8 -21.24 46.00
 90.00 13 30 31 4887.65 20.26 212.28 229.58 69.79 14 51 59 4287.7 17.33 204.84
 100.00 2 16 43 2137.54 -24.87 33.86 230.76 107.15 2 52 20 1537.5 -22.28 26.02
 100.00 14 50 39 4629.14 21.43 192.80 229.11 68.65 16 7 48 4029.1 18.34 185.37
 110.00 3 27 43 1915.29 -28.09 15.77 229.54 110.33 3 59 38 1315.3 -25.07 7.90
 110.00 15 56 8 4424.15 24.57 175.79 227.66 65.45 17 9 52 3824.2 21.05 168.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1366 TRA -.2807 TC3 .4356 BAU .2287 SGT 582.7 SGR 556.6 SG3 194.4 ST 165.3 SR 299.9 SS 289.6
 RDE -.2788 RRA .2921 RC3 .3326 FAU .06665 RRT .4146 RRF -.6654 RTF -.5526 CRT .6545 CRS -.7593 CST -.9675
 FDE -.5123 FRA -.7005 FC3-1.8491 BSP 1879 SGB 805.8 R23 -.1404 R13 -.7180 LSA 417.2 MSA 161.9 SSA 30.6
 BDE .3104 BRA .4051 BC3 .5481 FSP -539 SG1 678.2 SG2 435.2 THA 41.84 EL1 322.1 EL2 116.4 ALF 66.99

LAUNCH DATE FEB 24 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC
 RL 148.06 LAL -0.00 LOL 155.21 VL 27.996 GAL -9.37 AZL 89.83 HCA 98.36 SMA 131.54 ECC .20456 INC .1690 V1 30.092
 RP 108.60 LAP .17 LOP 253.57 VP 37.883 GAP -6.23 AZP 90.02 TAL 223.35 TAP 321.70 RCA 104.63 APO 158.45 V2 34.834
 RC 64.032 GL .85 GP 23.48 ZAL 153.51 ZAP 38.97 ETS 330.52 ZAE 146.35 ETE 35.62 ZAC 122.88 ETC 146.13 CLP -32.05

PLANETOCENTRIC CONIC
 C3 30.629 VHL 5.534 CLA 1.45 RAL 1.22 RAD 6568.2 VEL 12.329 PTH 2.22 VHP 5.949 DPA 35.18 RAP 29.87 ECC 1.5041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 19 2363.93 -22.89 51.17 230.11 107.14 1 40 43 1763.9 -20.33 43.43
 90.00 13 20 50 4918.16 20.97 214.24 229.24 70.52 14 42 48 4318.2 18.12 206.72
 100.00 2 23 20 2099.38 -24.07 31.30 229.70 108.28 2 58 20 1499.4 -21.35 23.56
 100.00 14 41 30 4657.94 22.14 194.65 228.78 69.38 15 59 8 4057.9 19.13 187.14
 110.00 3 33 8 1880.93 -27.26 13.44 228.43 111.47 4 4 29 1280.9 -24.10 5.70
 110.00 15 48 12 4449.15 25.27 177.40 227.38 66.18 17 2 21 3849.2 21.83 169.94

DIFFERENTIAL CORRECTIONS
 TDE -.1303 TRA -.2859 TC3 .4234 BAU .2344
 RDE -.2542 RRA .3093 RC3 .3853 FAU .07293
 FDE -.6146 FRA -.7838 FC3 -2.0613 BSP 1929
 BDE .2856 BRA .4212 BC3 .5725 FSP -608

MID-COURSE EXECUTION ACCURACY
 SGT 570.5 SGR 594.8 SG3 216.3
 RRT .4142 RRF -.7156 RTF -.5202
 SGB 824.1 R23 -.1468 R13 -.7423
 SG1 693.4 SG2 445.4 THA 47.87

ORBIT DETERMINATION ACCURACY
 ST 162.1 SR 280.4 SS 328.3
 CRT .5969 CRS -.7455 CST -.9593
 LSA 428.8 MSA 166.9 SSA 30.5
 EL1 300.2 EL2 121.5 ALF 66.99

LAUNCH DATE FEB 24 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC
 RL 148.06 LAL -0.00 LOL 155.21 VL 28.066 GAL -9.32 AZL 90.02 HCA 101.53 SMA 132.06 ECC .20125 INC .0210 V1 30.092
 RP 108.64 LAP -.02 LOP 256.74 VP 37.925 GAP -5.55 AZP 90.00 TAL 224.23 TAP 325.76 RCA 105.48 APO 158.64 V2 34.883
 RC 66.131 GL -.11 GP 25.15 ZAL 154.15 ZAP 42.89 ETS 332.64 ZAE 146.41 ETE 40.14 ZAC 121.35 ETC 145.85 CLP -35.96

PLANETOCENTRIC CONIC
 C3 30.130 VHL 5.489 CLA .33 RAL 1.02 RAD 6568.2 VEL 12.309 PTH 2.22 VHP 5.266 DPA 36.41 RAP 28.25 ECC 1.4959
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 51 2325.05 -22.09 48.60 229.27 108.18 1 47 36 1725.1 -19.40 40.96
 90.00 13 11 44 4948.79 21.65 216.23 229.08 71.29 14 34 13 4348.8 18.90 208.64
 100.00 2 30 21 2062.18 -23.26 28.84 228.84 109.33 3 4 43 1462.2 -20.41 21.20
 100.00 14 32 56 4686.90 22.82 196.53 228.64 70.15 15 51 3 4086.9 19.91 188.94
 110.00 3 38 57 1847.47 -26.41 11.22 227.52 112.54 4 9 44 1247.5 -23.12 3.60
 110.00 15 40 49 4474.37 25.95 179.04 227.28 66.93 16 55 24 3874.4 22.60 171.49

DIFFERENTIAL CORRECTIONS
 TDE -.1269 TRA -.2962 TC3 .4008 BAU .2408
 RDE -.2260 RRA .3275 RC3 .4435 FAU .07944
 FDE -.7279 FRA -.8666 FC3 -2.2826 BSP 1993
 BDE .2592 BRA .4416 BC3 .5978 FSP -682

MID-COURSE EXECUTION ACCURACY
 SGT 553.8 SGR 640.0 SG3 239.4
 RRT .3943 RRF -.7615 RTF -.4707
 SGB 846.3 R23 -.1421 R13 -.7707
 SG1 712.1 SG2 457.4 THA 55.10

ORBIT DETERMINATION ACCURACY
 ST 162.2 SR 257.7 SS 368.6
 CRT .5246 CRS -.7200 CST -.9494
 LSA 445.8 MSA 170.2 SSA 30.2
 EL1 275.8 EL2 129.0 ALF 66.21

LAUNCH DATE FEB 24 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC
 RL 148.06 LAL -0.00 LOL 155.21 VL 28.125 GAL -9.26 AZL 90.22 HCA 104.70 SMA 132.49 ECC .19840 INC .2156 V1 30.092
 RP 108.67 LAP -.21 LOP 259.92 VP 37.959 GAP -4.89 AZP 89.95 TAL 224.96 TAP 329.66 RCA 106.21 APO 158.78 V2 34.873
 RC 68.274 GL -1.10 GP 26.93 ZAL 154.64 ZAP 47.00 ETS 334.73 ZAE 146.41 ETE 45.20 ZAC 119.59 ETC 145.76 CLP -40.10

PLANETOCENTRIC CONIC
 C3 29.693 VHL 5.449 CLA -.79 RAL .95 RAD 6568.2 VEL 12.291 PTH 2.21 VHP 5.016 DPA 37.63 RAP 26.31 ECC 1.4887
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 49 2286.88 -21.25 46.11 228.62 109.16 1 54 55 1686.9 -18.45 38.57
 90.00 13 3 11 4979.64 22.31 218.25 229.08 72.10 14 26 11 4379.6 19.65 210.58
 100.00 2 37 47 2025.67 -22.42 26.46 228.17 110.31 3 11 33 1425.7 -19.45 18.92
 100.00 14 24 54 4716.08 23.48 198.45 228.66 70.95 15 43 30 4116.1 20.66 190.78
 110.00 3 45 12 1814.67 -25.53 9.07 226.80 113.54 4 15 26 1214.7 -22.13 1.57
 110.00 15 33 59 4499.84 26.62 180.72 227.35 67.72 16 48 59 3899.8 23.36 173.08

DIFFERENTIAL CORRECTIONS
 TDE -.1260 TRA -.3111 TC3 .3682 BAU .2490
 RDE -.1935 RRA .3468 RC3 .5077 FAU .08615
 FDE -.8537 FRA -.9480 FC3 -2.5118 BSP 2101
 BDE .2309 BRA .4659 BC3 .6272 FSP -765

MID-COURSE EXECUTION ACCURACY
 SGT 534.4 SGR 693.2 SG3 263.4
 RRT .3500 RRF -.8024 RTF -.4010
 SGB 875.3 R23 -.1207 R13 -.8036
 SG1 738.5 SG2 470.0 THA 63.47

ORBIT DETERMINATION ACCURACY
 ST 165.3 SR 231.6 SS 411.6
 CRT .4288 CRS -.6753 CST -.9381
 LSA 469.1 MSA 171.5 SSA 29.9
 EL1 248.0 EL2 139.5 ALF 64.35

LAUNCH DATE FEB 24 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC
 RL 148.06 LAL -0.00 LOL 155.21 VL 28.173 GAL -9.21 AZL 90.42 HCA 107.87 SMA 132.85 ECC .19593 INC .4157 V1 30.092
 RP 108.70 LAP -.40 LOP 263.09 VP 37.985 GAP -4.27 AZP 89.87 TAL 225.55 TAP 333.43 RCA 106.82 APO 158.88 V2 34.862
 RC 70.456 GL -2.14 GP 28.79 ZAL 154.98 ZAP 51.29 ETS 336.87 ZAE 146.30 ETE 50.80 ZAC 117.61 ETC 145.85 CLP -44.48

PLANETOCENTRIC CONIC
 C3 29.306 VHL 5.413 CLA -1.90 RAL .99 RAD 6568.2 VEL 12.275 PTH 2.21 VHP 4.800 DPA 38.83 RAP 24.04 ECC 1.4823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 14 2249.09 -20.39 43.68 228.14 110.08 2 2 43 1649.1 -17.47 36.22
 90.00 12 55 7 5010.85 22.95 220.32 229.26 72.94 14 18 38 4410.8 20.40 212.57
 100.00 2 45 42 1989.55 -21.54 24.13 227.67 111.24 3 18 51 1389.5 -18.47 16.69
 100.00 14 17 20 4745.62 24.12 200.40 228.85 71.79 15 36 26 4145.6 21.41 192.66
 110.00 3 51 55 1782.27 -24.63 6.98 226.26 114.48 4 21 37 1182.3 -21.12 359.59
 110.00 15 27 37 4525.67 27.28 182.44 227.59 68.55 16 43 2 3925.7 24.12 174.70

DIFFERENTIAL CORRECTIONS
 TDE -.1313 TRA -.3333 TC3 .3212 BAU .2585
 RDE -.1573 RRA .3657 RC3 .5763 FAU .09260
 FDE -.9851 FRA -1.0192 FC3 -2.7356 BSP 2209
 BDE .2049 BRA .4948 BC3 .6598 FSP -842

MID-COURSE EXECUTION ACCURACY
 SGT 514.7 SGR 753.0 SG3 286.9
 RRT .2670 RRF -.8370 RTF -.2951
 SGB 912.1 R23 -.0857 R13 -.8359
 SG1 774.0 SG2 482.6 THA 72.80

ORBIT DETERMINATION ACCURACY
 ST 175.0 SR 203.8 SS 454.3
 CRT .3090 CRS -.6013 CST -.9298
 LSA 498.5 MSA 170.7 SSA 29.5
 EL1 220.0 EL2 154.3 ALF 58.16

LAUNCH DATE FEB 24 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 243.945

RL 148.06 LAL -.00 LOL 155.21 VL 28.210 GAL -9.15 AZL 90.62 MCA 111.04 SMA 133.13 ECC .19379 INC .6233 V1 30.092
 RP 108.73 LAP -.58 LOP 266.26 VP 38.004 GAP -3.67 AZP 89.78 TAL 226.00 TAP 337.05 RCA 107.33 APO 158.93 V2 34.853
 RC 72.672 GL -3.23 GP 30.74 ZAL 155.16 ZAP 55.74 ETS 339.11 ZAE 145.99 ETE 56.88 ZAC 115.44 ETC 146.16 CLP -49.09

PLANETOCENTRIC CONIC

C3 28.959 VHL 5.381 DLA -3.02 RAL 1.15 RAD 6568.2 VEL 12.261 PTH 2.21 VHP 4.619 DPA 39.98 RAP 21.44 ECC 1.4766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 13 2211.35 -19.49 41.28 227.83 110.96 2 11 4 1611.3 -16.47 33.91
 90.00 12 47 26 5042.63 23.57 222.44 229.59 73.83 14 11 29 4442.6 21.13 214.62
 100.00 2 54 9 1953.50 -20.64 21.83 227.35 112.12 3 26 42 1353.5 -17.46 14.48
 100.00 14 10 11 4775.72 24.75 202.42 229.20 72.68 15 29 47 4175.7 22.14 194.59
 110.00 3 59 10 1749.98 -23.71 4.93 225.89 115.38 4 28 19 1150.0 -20.09 357.65
 110.00 15 21 40 4552.00 27.92 184.22 227.98 69.43 16 37 32 3952.0 24.86 176.38

DIFFERENTIAL CORRECTIONS

TDE -.1425 TRA -.3618 TC3 .2607 BAU .2707
 RDE -.1168 RRA .3837 RC3 .6489 FAU .09861
 FDE -1.1215 FRA -1.0782 FC3 -2.9479 BSP 2354
 BDE .1842 BRA .5274 BC3 .6993 FSP -916

MID-COURSE EXECUTION ACCURACY

SGT 500.5 SGR 818.9 SG3 309.3
 RRT .1390 RRF -.8657 RTF -.1482
 SGB 959.8 R23 -.0408 R13 -.8652
 SG1 823.5 SG2 492.9 THA 82.41

ORBIT DETERMINATION ACCURACY

ST 191.0 SR 175.9 SS 497.4
 CRT .1438 CRS -.4747 CST -.9251
 LSA 534.6 MSA 168.1 SSA 29.0
 EL1 .198.2 EL2 167.8 ALF 30.14

LAUNCH DATE FEB 24 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 250.446

RL 148.06 LAL -.00 LOL 155.21 VL 28.239 GAL -9.09 AZL 90.84 MCA 114.21 SMA 133.35 ECC .19192 INC .8397 V1 30.092
 RP 108.76 LAP -.77 LOP 269.42 VP 38.017 GAP -3.10 AZP 89.66 TAL 226.32 TAP 340.53 RCA 107.76 APO 158.94 V2 34.844
 RC 74.919 GL -4.38 GP 32.73 ZAL 155.19 ZAP 60.32 ETS 341.49 ZAE 145.43 ETE 63.32 ZAC 113.11 ETC 146.69 CLP -53.94

PLANETOCENTRIC CONIC

C3 28.648 VHL 5.352 DLA -4.15 RAL 1.43 RAD 6568.2 VEL 12.248 PTH 2.20 VHP 4.472 DPA 41.05 RAP 18.55 ECC 1.4715
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 49 2173.29 -18.55 38.88 227.68 111.79 2 20 2 1573.3 -15.43 31.60
 90.00 12 40 4 5075.29 24.17 224.64 230.08 74.78 14 4 39 4475.3 21.85 216.74
 100.00 3 3 12 1917.17 -19.69 19.55 227.19 112.96 3 35 10 1317.2 -16.41 12.29
 100.00 14 3 21 4806.64 25.36 204.52 229.71 73.62 15 23 28 4206.6 22.87 196.60
 110.00 4 6 59 1717.50 -22.74 2.90 225.68 116.23 4 35 37 1117.5 -19.03 355.73
 110.00 15 16 4 4579.08 28.55 186.07 228.54 70.36 16 32 23 3979.1 25.61 178.13

DIFFERENTIAL CORRECTIONS

TDE -.1596 TRA -.3954 TC3 .1872 BAU .2869
 RDE -.0711 RRA .4007 RC3 .7255 FAU .10405
 FDE -1.2629 FRA -1.1240 FC3 -3.1444 BSP 2569
 BDE .1748 BRA .5629 BC3 .7492 FSP -993

MID-COURSE EXECUTION ACCURACY

SGT 499.4 SGR 891.0 SG3 330.3
 RRT -.0311 RRF -.8896 RTF .0359
 SGB 1021.4 R23 .0045 R13 -.8896
 SG1 891.2 SG2 499.1 THA 91.46

ORBIT DETERMINATION ACCURACY

ST 213.2 SR 151.6 SS 542.1
 CRT -.1012 CRS -.2534 CST -.9243
 LSA 578.5 MSA 164.1 SSA 28.4
 EL1 214.3 EL2 150.1 ALF 171.88

LAUNCH DATE FEB 24 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 256.914

RL 148.06 LAL -.00 LOL 155.21 VL 28.259 GAL -9.02 AZL 91.07 MCA 117.37 SMA 133.50 ECC .19028 INC 1.0670 V1 30.092
 RP 108.78 LAP -.95 LOP 272.59 VP 38.024 GAP -2.56 AZP 89.51 TAL 226.50 TAP 343.87 RCA 108.10 APO 158.91 V2 34.835
 RC 77.194 GL -5.60 GP 34.75 ZAL 155.06 ZAP 64.96 ETS 344.04 ZAE 144.56 ETE 69.99 ZAC 110.66 ETC 147.42 CLP -58.99

PLANETOCENTRIC CONIC

C3 28.368 VHL 5.326 DLA -5.31 RAL 1.83 RAD 6568.1 VEL 12.237 PTH 2.20 VHP 4.360 DPA 42.04 RAP 15.40 ECC 1.4669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 54 9 2134.50 -17.55 36.47 227.70 112.59 2 29 43 1534.5 -14.34 29.27
 90.00 12 32 54 5109.18 24.75 226.95 230.74 75.79 13 58 3 4509.2 22.56 218.97
 100.00 3 12 59 1880.18 -18.69 17.26 227.19 113.76 3 44 19 1280.2 -15.32 10.09
 100.00 13 56 45 4838.73 25.96 206.71 230.38 74.63 15 17 24 4238.7 23.59 198.71
 110.00 4 15 29 1684.51 -21.74 .87 225.64 117.05 4 43 33 1084.5 -17.94 353.80
 110.00 15 10 44 4607.17 29.18 188.02 229.27 71.35 16 27 31 4007.2 26.36 179.98

DIFFERENTIAL CORRECTIONS

TDE -.1859 TRA -.4355 TC3 .0978 BAU .3064
 RDE -.0223 RRA .4139 RC3 .8019 FAU .10828
 FDE -1.3974 FRA -1.1455 FC3 -3.3044 BSP 2812
 BDE .1873 BRA .6008 BC3 .8078 FSP -1053

MID-COURSE EXECUTION ACCURACY

SGT 521.8 SGR 964.4 SG3 347.6
 RRT -.2316 RRF -.9084 RTF .2459
 SGB 1096.5 R23 .0438 R13 -.9080
 SG1 974.8 SG2 502.2 THA 99.76

ORBIT DETERMINATION ACCURACY

ST 244.8 SR 138.7 SS 584.6
 CRT -.4142 CRS .0767 CST -.9284
 LSA 628.4 MSA 159.1 SSA 27.8
 EL1 253.6 EL2 121.8 ALF 162.68

LAUNCH DATE FEB 24 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 263.348

RL 148.06 LAL -.00 LOL 155.21 VL 28.272 GAL -8.95 AZL 91.31 MCA 120.54 SMA 133.60 ECC .18883 INC 1.3076 V1 30.092
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.027 GAP -2.04 AZP 89.34 TAL 226.55 TAP 347.09 RCA 108.37 APO 158.83 V2 34.827
 RC 79.493 GL -6.90 GP 36.77 ZAL 154.76 ZAP 69.61 ETS 346.79 ZAE 143.36 ETE 76.70 ZAC 108.13 ETC 148.34 CLP -64.22

PLANETOCENTRIC CONIC

C3 28.120 VHL 5.303 DLA -6.51 RAL 2.35 RAD 6568.1 VEL 12.227 PTH 2.20 VHP 4.282 DPA 42.93 RAP 12.05 ECC 1.4628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 20 2094.54 -16.49 34.02 227.89 113.35 2 40 14 1494.5 -13.19 26.90
 90.00 12 25 50 5144.77 25.33 229.40 231.56 76.89 13 51 35 4544.8 23.27 221.34
 100.00 3 23 35 1842.12 -17.63 14.93 227.36 114.54 3 54 17 1242.1 -14.17 7.85
 100.00 13 50 16 4872.42 26.54 209.04 231.23 75.72 15 11 29 4272.4 24.32 200.95
 110.00 4 24 44 1650.65 -20.67 358.81 225.77 117.85 4 52 15 1050.6 -16.79 351.85
 110.00 15 5 36 4636.66 29.81 190.09 230.18 72.43 16 22 53 4036.7 27.11 181.93

DIFFERENTIAL CORRECTIONS

TDE -.2207 TRA -.4795 TC3 -.0043 BAU .3301
 RDE .0313 RRA .4237 RC3 .8782 FAU .11134
 FDE -1.5282 FRA -1.1468 FC3 -3.4279 BSP 3128
 BDE .2229 BRA .6399 BC3 .8782 FSP -1108

MID-COURSE EXECUTION ACCURACY

SGT 573.4 SGR 1039.6 SG3 361.4
 RRT -.4237 RRF -.9236 RTF .4422
 SGB 1187.3 R23 .0744 R13 -.9223
 SG1 1076.0 SG2 501.8 THA 106.95

ORBIT DETERMINATION ACCURACY

ST 285.2 SR 145.0 SS 627.7
 CRT -.7182 CRS .4499 CST -.9347
 LSA 687.0 MSA 153.5 SSA 27.1
 EL1 305.8 EL2 94.1 ALF 157.71

LAUNCH DATE FEB 24 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

RL 148.06 LAL -.00 LOL 155.21 VL 28.278 GAL -8.88 AZL 91.56 MCA 123.70 SMA 133.64 ECC .18754 INC 1.5643 V1 30.092
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.024 GAP -1.55 AZP 89.13 TAL 226.48 TAP 350.18 RCA 108.58 APO 158.71 V2 34.820
 RC 81.813 GL -8.30 GP 38.76 ZAL 154.29 ZAP 74.22 ETS 349.75 ZAE 141.83 ETE 83.26 ZAC 105.57 ETC 149.44 CLP -69.59

PLANETOCENTRIC CONIC

C3 27.907 VHL 5.283 DLA -7.76 RAL 2.99 RAD 6568.1 VEL 12.218 PTH 2.20 VHP 4.239 DPA 43.72 RAP 8.58 ECC 1.4593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 32 2052.88 -15.34 31.50 228.25 114.09 2 51 45 1452.9 -11.96 24.45
 90.00 12 18 44 5182.63 25.88 232.04 232.57 78.10 13 45 6 4582.6 23.99 223.88
 100.00 3 35 9 1802.51 -16.49 12.54 227.70 115.29 4 5 11 1202.5 -12.95 5.54
 100.00 13 43 48 4908.23 27.12 211.55 232.27 76.92 15 5 37 4308.2 25.05 203.36
 110.00 4 34 52 1615.54 -19.54 356.72 226.07 118.62 5 1 47 1015.5 -15.57 349.85
 110.00 15 0 35 4667.97 30.43 192.32 231.27 73.61 16 18 23 4068.0 27.88 184.05

DIFFERENTIAL CORRECTIONS

TDE -.2667 TRA -.5279 TC3 -.1207 BAU .3570
 RDE .0872 RRA .4270 RC3 .9492 FAU .11267
 FDE -1.6424 FRA -1.1185 FC3 -3.4954 BSP 3471
 BDE .2806 BRA .6790 BC3 .9568 FSP -1140

MID-COURSE EXECUTION ACCURACY

SGT 658.6 SGR 1110.5 SG3 369.7
 RRT -.5815 RRF -.9353 RTF .6009
 SGB 1291.1 R23 .0982 R13 -.9328
 SG1 1190.4 SG2 499.9 THA 113.39

ORBIT DETERMINATION ACCURACY

ST 337.2 SR 171.8 SS 667.4
 CRT -.8938 CRS .7135 CST -.9428
 LSA 752.4 MSA 147.7 SSA 26.2
 EL1 372.0 EL2 69.8 ALF 154.56

LAUNCH DATE FEB 24 1969

FLIGHT TIME 96.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 148.06 LAL -.00 LOL 155.21 VL 28.277 GAL -8.79 AZL 91.84 MCA 126.86 SMA 133.64 ECC .18638 INC 1.8405 V1 30.092
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.018 GAP -1.07 AZP 88.90 TAL 226.30 TAP 353.15 RCA 108.73 APO 158.55 V2 34.813
 RC 84.153 GL -9.81 GP 40.72 ZAL 153.64 ZAP 78.72 ETS 352.92 ZAE 139.99 ETE 89.54 ZAC 103.04 ETC 150.66 CLP -75.04

PLANETOCENTRIC CONIC

C3 27.734 VHL 5.266 DLA -9.07 RAL 3.75 RAD 6568.1 VEL 12.211 PTH 2.19 VHP 4.230 DPA 44.43 RAP 5.06 ECC 1.4564
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 58 2008.93 -14.11 28.86 228.80 114.81 3 4 27 1408.9 -10.64 21.90
 90.00 12 11 26 5223.48 26.43 234.90 233.78 79.44 13 38 30 4623.5 24.70 226.66
 100.00 3 47 53 1760.81 -15.26 10.05 228.23 116.02 4 17 13 1160.8 -11.64 3.13
 100.00 13 37 13 4946.84 27.68 214.28 233.51 78.25 14 59 39 4346.8 25.78 205.99
 110.00 4 46 2 1578.72 -18.33 354.55 226.55 119.37 5 12 20 978.7 -14.28 347.78
 110.00 14 55 33 4701.69 31.05 194.75 232.58 74.93 16 13 55 4101.7 28.67 186.35

DIFFERENTIAL CORRECTIONS

TDE -.3233 TRA -.5774 TC3 -.2468 BAU .3873
 RDE .1469 RRA .4245 RC3 1.0150 FAU .11250
 FDE -1.7445 FRA -1.0678 FC3 -3.5116 BSP 3877
 BDE .3551 BRA .7166 BC3 1.0446 FSP -1162

MID-COURSE EXECUTION ACCURACY

SGT 772.0 SGR 1177.8 SG3 373.3
 RRT -.6948 RRF -.9448 RTF .7128
 SGB 1408.2 R23 .1160 R13 -.9409
 SG1 1317.9 SG2 496.2 THA 118.97

ORBIT DETERMINATION ACCURACY

ST 400.2 SR 215.1 SS 706.8
 CRT -.9670 CRS .8570 CST -.9507
 LSA 827.7 MSA 142.3 SSA 25.1
 EL1 451.8 EL2 48.6 ALF 152.19

LAUNCH DATE FEB 24 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 148.06 LAL -.00 LOL 155.21 VL 28.271 GAL -8.70 AZL 92.14 MCA 130.01 SMA 133.59 ECC .18534 INC 2.1404 V1 30.092
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.007 GAP -.62 AZP 88.62 TAL 226.01 TAP 356.02 RCA 108.83 APO 158.35 V2 34.807
 RC 86.508 GL -11.46 GP 42.63 ZAL 152.80 ZAP 83.03 ETS 356.29 ZAE 137.87 ETE 95.42 ZAC 100.57 ETC 151.98 CLP -80.51

PLANETOCENTRIC CONIC

C3 27.612 VHL 5.255 DLA -10.48 RAL 4.66 RAD 6568.1 VEL 12.206 PTH 2.19 VHP 4.256 DPA 45.07 RAP 1.55 ECC 1.4544
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 52 1961.98 -12.75 26.09 229.56 115.50 3 18 34 1362.0 -9.21 19.19
 90.00 12 3 46 5268.24 26.95 238.08 235.22 80.95 13 31 34 4668.2 25.42 229.74
 100.00 4 2 0 1716.37 -13.92 7.44 228.97 116.72 4 30 36 1116.4 -10.22 .60
 100.00 13 30 19 4989.08 28.23 217.30 234.97 79.75 14 53 28 4389.1 26.53 208.91
 110.00 4 58 25 1539.70 -17.01 352.30 227.23 120.11 5 24 5 939.7 -12.88 345.62
 110.00 14 50 24 4738.51 31.67 197.44 234.14 76.41 16 9 22 4138.5 29.48 188.91

DIFFERENTIAL CORRECTIONS

TDE -.3929 TRA -.6271 TC3 -.3820 BAU .4194
 RDE .2078 RRA .4135 RC3 1.0699 FAU .11043
 FDE -1.8238 FRA -.9893 FC3 -3.4623 BSP 4297
 BDE .4445 BRA .7511 BC3 1.1361 FSP -1158

MID-COURSE EXECUTION ACCURACY

SGT 910.0 SGR 1235.3 SG3 370.6
 RRT -.7715 RRF -.9522 RTF .7879
 SGB 1534.3 R23 .1308 R13 -.9469
 SG1 1453.2 SG2 492.2 THA 124.04

ORBIT DETERMINATION ACCURACY

ST 476.6 SR 267.2 SS 742.3
 CRT -.9906 CRS .9262 CST -.9581
 LSA 911.2 MSA 137.4 SSA 23.8
 EL1 545.5 EL2 31.9 ALF 150.84

LAUNCH DATE FEB 24 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 148.06 LAL -.00 LOL 155.21 VL 28.259 GAL -8.60 AZL 92.47 MCA 133.17 SMA 133.50 ECC .18440 INC 2.4693 V1 30.092
 RP 108.89 LAP -1.80 LOP 288.41 VP 37.994 GAP -.19 AZP 88.31 TAL 225.61 TAP 358.78 RCA 108.89 APO 158.12 V2 34.802
 RC 88.877 GL -13.26 GP 44.50 ZAL 151.74 ZAP 87.11 ETS 359.84 ZAE 136.53 ETE 100.83 ZAC 98.21 ETC 153.34 CLP -85.95

PLANETOCENTRIC CONIC

C3 27.557 VHL 5.250 DLA -11.99 RAL 5.72 RAD 6568.1 VEL 12.204 PTH 2.19 VHP 4.317 DPA 45.68 RAP 358.11 ECC 1.4535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 35 1911.16 -11.24 23.11 230.57 116.16 3 34 26 1311.2 -7.63 16.29
 90.00 11 55 28 5318.07 27.43 241.65 236.92 82.67 13 24 6 4718.1 26.13 233.22
 100.00 4 17 49 1668.42 -12.43 4.65 229.95 117.40 4 45 38 1068.4 -8.67 357.89
 100.00 13 22 55 5036.04 28.76 220.69 236.71 81.46 14 46 51 4436.0 27.28 212.20
 110.00 5 12 16 1497.91 -15.57 349.92 228.15 120.82 5 37 14 897.9 -11.37 343.33
 110.00 14 44 57 4779.32 32.28 200.46 235.97 78.10 16 4 37 4179.3 30.31 191.80

DIFFERENTIAL CORRECTIONS

TDE -.4757 TRA -.6740 TC3 -.5211 BAU .4535
 RDE .2723 RRA .3956 RC3 1.1151 FAU .10695
 FDE -1.8880 FRA -.8946 FC3 -3.5599 BSP 4770
 BDE .5481 BRA .7815 BC3 1.2309 FSP -1146

MID-COURSE EXECUTION ACCURACY

SGT 1065.1 SGR 1286.0 SG3 363.4
 RRT -.8226 RRF -.9583 RTF .8373
 SGB 1669.9 R23 .1426 R13 -.9516
 SG1 1597.1 SG2 487.7 THA 128.51

ORBIT DETERMINATION ACCURACY

ST 566.3 SR 327.3 SS 777.7
 CRT -.9969 CRS .9611 CST -.9648
 LSA 1007.2 MSA 133.5 SSA 22.3
 EL1 653.7 EL2 22.4 ALF 150.02

LAUNCH DATE FEB 24 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 295.042

RL 148.06 LAL -1.00 LOL 155.21 VL 28.243 GAL -8.50 AZL 92.83 MCA 136.32 SMA 133.38 ECC .18354 INC 2.8339 V1 30.092
 RP 108.90 LAP -1.96 LOP 291.57 VP 37.977 GAP .22 AZP 87.95 TAL 225.12 TAP 1.44 RCA 108.90 APO 157.86 V2 34.797
 RC 91.256 GL -15.24 GP 46.36 ZAL 150.46 ZAP 90.89 ETS 3.55 ZAE 133.01 ETE 105.74 ZAC 95.98 ETC 154.72 CLP -91.29

PLANETOCENTRIC CONIC

C3 27.592 VHL 5.253 DLA -13.63 RAL 6.94 RAD 6568.1 VEL 12.205 PTH 2.19 VHP 4.414 DPA 46.31 RAP 354.77 ECC 1.4541
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 35 1855.32 -9.54 19.89 231.87 116.79 3 52 30 1255.3 -5.87 13.13
 90.00 11 46 13 5374.54 27.85 245.72 238.91 84.68 13 15 47 4774.5 26.82 237.21
 100.00 4 35 45 1615.99 -10.77 1.64 231.22 118.05 5 2 41 1016.0 -6.94 354.95
 100.00 13 14 43 5089.10 29.23 224.56 238.75 83.45 14 39 32 4489.1 28.02 215.97
 110.00 5 27 55 1452.62 -13.97 347.38 229.35 121.52 5 52 8 852.6 -9.70 340.88
 110.00 14 39 3 4825.24 32.88 203.91 238.13 80.06 15 59 28 4225.2 31.16 195.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5737 TRA -.7161 TC3 -.6608 BAU .4874 SGT 1232.7 SGR 1323.0 SG3 350.2 ST 670.9 SR 390.1 SS 808.9
 RDE .3375 RRA .3674 RC3 1.1441 FAU .10175 RRT -.8562 RRF -.9632 RTF .8697 CRT -.9972 CRS .9791 CST -.9703
 FDE -1.9275 FRA -.7777 FC3 -3.1925 BSP 5228 SGB 1808.2 R23 .1540 R13 -.9548 LSA 1113.2 MSA 130.8 SSA 20.5
 BDE .6656 BRA .8048 BC3 1.3212 FSP -1106 SG1 1742.4 SG2 483.6 THA 132.64 EL1 775.7 EL2 25.4 ALF 149.86

LAUNCH DATE FEB 24 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 301.290

RL 148.06 LAL -1.00 LOL 155.21 VL 28.222 GAL -8.38 AZL 93.24 MCA 139.47 SMA 133.22 ECC .18276 INC 3.2431 V1 30.092
 RP 108.92 LAP -2.11 LOP 294.73 VP 37.958 GAP .62 AZP 87.53 TAL 224.54 TAP 4.01 RCA 108.88 APO 157.57 V2 34.793
 RC 93.644 GL -17.45 GP 48.23 ZAL 148.92 ZAP 94.33 ETS 7.41 ZAE 130.35 ETE 110.17 ZAC 93.89 ETC 156.07 CLP -96.50

PLANETOCENTRIC CONIC

C3 27.751 VHL 5.268 DLA -15.44 RAL 8.34 RAD 6568.1 VEL 12.212 PTH 2.19 VHP 4.550 DPA 47.00 RAP 351.53 ECC 1.4567
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 28 1792.96 -7.61 16.33 233.53 117.36 4 13 21 1193.0 -3.89 9.63
 90.00 11 35 33 5439.75 28.17 250.47 241.25 87.03 13 6 13 4839.8 27.47 241.87
 100.00 4 56 21 1557.79 -8.89 358.35 232.84 118.66 5 22 19 957.8 -5.00 351.72
 100.00 13 5 23 5150.16 29.62 229.05 241.15 85.78 14 31 13 4550.2 28.72 220.37
 110.00 5 45 46 1402.98 -12.19 344.64 230.88 122.19 6 9 9 803.0 -7.85 338.23
 110.00 14 32 25 4877.73 33.42 207.91 240.69 82.37 15 53 43 4277.7 32.01 198.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6889 TRA -.7508 TC3 -.7961 BAU .5219 SGT 1408.1 SGR 1352.6 SG3 333.7 ST 791.6 SR 458.2 SS 840.2
 RDE .4070 RRA .3321 RC3 1.1598 FAU .09554 RRT -.8790 RRF -.9674 RTF .8919 CRT -.9958 CRS .9889 CST -.9752
 FDE -1.9528 FRA -.6539 FC3 -2.9804 BSP 5731 SGB 1952.5 R23 .1639 R13 -.9574 LSA 1235.1 MSA 129.4 SSA 18.4
 BDE .8001 BRA .8210 BC3 1.4068 FSP -1062 SG1 1892.6 SG2 479.9 THA 136.31 EL1 913.9 EL2 36.4 ALF 149.99

LAUNCH DATE FEB 24 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 307.510

RL 148.06 LAL -1.00 LOL 155.21 VL 28.198 GAL -8.26 AZL 93.71 MCA 142.62 SMA 133.04 ECC .18205 INC 3.7085 V1 30.092
 RP 108.93 LAP -2.25 LOP 297.89 VP 37.937 GAP 1.00 AZP 87.05 TAL 223.87 TAP 6.49 RCA 108.82 APO 157.26 V2 34.789
 RC 96.038 GL -19.91 GP 50.15 ZAL 147.09 ZAP 87.37 ETS 11.41 ZAE 127.56 ETE 114.12 ZAC 91.94 ETC 157.39 CLP -101.55

PLANETOCENTRIC CONIC

C3 28.083 VHL 5.299 DLA -17.44 RAL 9.97 RAD 6568.1 VEL 12.225 PTH 2.20 VHP 4.727 DPA 47.80 RAP 348.36 ECC 1.4622
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 9 11 1721.88 -5.37 12.31 235.66 117.84 4 37 53 1121.9 1.60 5.65
 90.00 11 22 47 5516.76 28.32 256.09 244.00 89.85 12 54 43 4916.8 28.00 247.44
 100.00 5 20 25 1492.05 -6.73 354.67 234.92 119.19 5 45 17 892.0 -2.78 348.10
 100.00 12 54 14 5221.82 29.86 234.37 243.98 88.57 14 21 16 4621.8 29.34 225.61
 110.00 6 6 26 1347.89 -10.17 341.64 232.83 122.81 6 28 54 747.9 -5.78 335.31
 110.00 14 24 43 4938.75 33.88 212.62 243.72 85.12 15 47 2 4338.7 32.83 203.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8242 TRA -.7754 TC3 -.9214 BAU .5549 SGT 1587.5 SGR 1368.4 SG3 312.8 ST 929.8 SR 527.5 SS 867.7
 RDE .4783 RRA .2861 RC3 1.1556 FAU .08811 RRT -.8939 RRF -.9709 RTF .9070 CRT -.9941 CRS .9943 CST -.9792
 FDE -1.9565 FRA -.5186 FC3 -2.7161 BSP 6208 SGB 2095.8 R23 .1743 R13 -.9591 LSA 1370.7 MSA 129.6 SSA 16.3
 BDE .9530 BRA .8265 BC3 1.4779 FSP -997 SG1 2040.8 SG2 477.2 THA 139.73 EL1 1067.9 EL2 49.8 ALF 150.51

LAUNCH DATE FEB 24 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 313.702

RL 148.06 LAL -1.00 LOL 155.21 VL 28.170 GAL -8.13 AZL 94.25 MCA 145.77 SMA 132.83 ECC .18139 INC 4.2460 V1 30.092
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.914 GAP 1.36 AZP 86.49 TAL 223.12 TAP 8.89 RCA 108.73 APO 156.92 V2 34.787
 RC 98.436 GL -22.68 GP 52.18 ZAL 144.94 ZAP 99.99 ETS 15.57 ZAE 124.66 ETE 117.67 ZAC 90.12 ETC 158.66 CLP -106.43

PLANETOCENTRIC CONIC

C3 28.662 VHL 5.354 DLA -19.67 RAL 11.84 RAD 6568.2 VEL 12.249 PTH 2.20 VHP 4.954 DPA 48.74 RAP 345.20 ECC 1.4717
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 12 1638.56 -2.70 7.64 238.42 118.20 5 7 31 1038.6 1.09 1.01
 90.00 11 6 45 5610.26 28.14 262.93 247.20 93.27 12 40 15 5010.3 28.30 254.26
 100.00 5 49 9 1416.09 -4.19 350.46 237.60 119.62 6 12 45 816.1 -.21 343.93
 100.00 12 40 29 5307.97 29.84 240.78 247.29 91.94 14 8 57 4708.0 29.79 231.97
 110.00 6 30 42 1285.87 -7.87 338.32 235.33 123.37 6 52 8 685.9 -3.42 332.05
 110.00 14 15 25 5010.95 34.15 218.24 247.31 88.44 15 38 56 4411.0 33.56 209.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9848 TRA -.7871 TC3 -1.0306 BAU .5869 SGT 1768.8 SGR 1376.7 SG3 289.7 ST 1088.1 SR 600.9 SS 895.0
 RDE .5556 RRA .2316 RC3 1.1332 FAU .08006 RRT -.9039 RRF -.9741 RTF .9181 CRT -.9927 CRS .9973 CST -.9826
 FDE -1.9486 FRA -.3837 FC3 -2.4182 BSP 6716 SGB 2241.4 R23 .1836 R13 -.9607 LSA 1526.0 MSA 131.0 SSA 14.0
 BDE 1.1307 BRA .8205 BC3 1.5318 FSP -928 SG1 2190.4 SG2 475.5 THA 142.83 EL1 1241.4 EL2 63.6 ALF 151.18

LAUNCH DATE FEB 24 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 319.866

RL 148.06 LAL -0.00 LOL 155.21 VL 28.139 GAL -7.99 AZL 94.88 MCA 148.91 SMA 132.60 ECC .18080 INC 4.8778 V1 30.092
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.889 GAP 1.71 AZP 85.82 TAL 222.30 TAP 11.21 RCA 108.62 APO 156.57 V2 34.785
 RC 100.837 GL -25.82 GP 54.38 ZAL 142.40 ZAP 102.14 ETS 19.91 ZAE 121.63 ETE 120.86 ZAC 88.40 ETC 159.92 CLP-111.16

PLANETOCENTRIC CONIC

C3 29.601 VHL 5.441 DLA -22.17 RAL 14.03 RAD 6568.2 VEL 12.287 PTH 2.21 VHP 5.241 DPA 49.85 RAP 341.97 ECC 1.4872
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 19 9 1536.41 .59 1.94 242.06 118.31 5 44 45 936.4 4.37 355.30
 90.00 10 45 15 5728.55 27.39 271.49 250.88 97.50 12 20 43 5128.6 28.14 262.91
 100.00 6 24 34 1325.27 -1.11 345.47 241.11 119.87 6 46 39 725.3 2.87 338.95
 100.00 12 22 31 5414.93 29.33 248.68 251.14 96.07 13 52 46 4814.9 29.86 239.92
 110.00 6 59 49 1214.77 -5.19 334.56 238.57 123.83 7 20 4 614.8 -.71 328.34
 110.00 14 3 45 5098.20 34.10 225.05 251.56 92.47 15 28 43 4498.2 34.07 215.80

DIFFERENTIAL CORRECTIONS

TDE-1.1769 TRA -.7818 TC3-1.1154 BAU .6162
 RDE .6369 RRA .1653 RC3 1.0863 FAU .07132
 FDE-1.9234 FRA -.2473 FC3-2.0857 BSP 7185
 BOE 1.3382 BRA .7991 BC3 1.5570 FSP -845

MID-COURSE EXECUTION ACCURACY

SGT 1949.3 SGR 1372.0 SG3 263.9
 RRT -.9098 RRF -.9768 RTF .9261
 SGB 2383.7 R23 .1932 R13 -.9618
 SG1 2335.8 SG2 475.3 TMA 145.75

ORBIT DETERMINATION ACCURACY

ST 1268.3 SR 674.0 SS 918.5
 CRT -.9915 CRS .9989 CST -.9855
 LSA 1699.6 MSA 133.8 SSA 11.8
 EL1 1434.2 EL2 77.4 ALF 152.12

LAUNCH DATE FEB 24 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 326.003

RL 148.06 LAL -0.00 LOL 155.21 VL 28.105 GAL -7.85 AZL 95.64 MCA 152.05 SMA 132.34 ECC .18025 INC 5.6361 V1 30.092
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.862 GAP 2.04 AZP 85.02 TAL 221.40 TAP 13.45 RCA 108.49 APO 156.20 V2 34.784
 RC 103.240 GL -29.37 GP 56.80 ZAL 139.42 ZAP 103.78 ETS 24.45 ZAE 118.44 ETE 123.81 ZAC 86.73 ETC 161.21 CLP-115.78

PLANETOCENTRIC CONIC

C3 31.085 VHL 5.575 DLA -24.98 RAL 16.60 RAD 6568.2 VEL 12.347 PTH 2.23 VHP 5.604 DPA 51.16 RAP 338.51 ECC 1.5116
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 5 1398.86 5.01 354.24 247.06 117.91 6 35 24 798.9 8.71 347.51
 90.00 10 12 48 602.60 25.42 305.04 234.87 102.91 10 22 51 2.6 26.95 296.70
 100.00 7 10 41 1209.63 2.80 339.12 245.84 119.77 7 30 51 609.6 6.75 332.55
 100.00 11 56 53 5555.10 27.89 258.85 255.46 101.23 13 29 28 4955.1 29.15 250.27
 110.00 7 35 45 1131.01 -2.00 330.17 242.85 124.13 7 54 36 531.0 2.50 323.97
 110.00 13 48 18 5206.49 33.47 233.44 256.53 97.39 15 15 5 4606.5 34.13 224.26

DIFFERENTIAL CORRECTIONS

TDE-1.4126 TRA -.7554 TC3-1.1680 BAU .6430
 RDE .7262 RRA .0881 RC3 1.0146 FAU .06234
 FDE-1.8893 FRA -.1188 FC3-1.7363 BSP 7683
 BOE 1.5883 BRA .7606 BC3 1.5471 FSP -762

MID-COURSE EXECUTION ACCURACY

SGT 2130.1 SGR 1359.0 SG3 237.2
 RRT -.9128 RRF -.9791 RTF .9330
 SGB 2526.7 R23 .2010 R13 -.9631
 SG1 2481.3 SG2 476.4 TMA 148.49

ORBIT DETERMINATION ACCURACY

ST 1474.8 SR 747.6 SS 940.7
 CRT -.9907 CRS .9997 CST -.9881
 LSA 1897.3 MSA 137.3 SSA 9.7
 EL1 1651.0 EL2 90.7 ALF 153.24

LAUNCH DATE FEB 24 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 332.113

RL 148.06 LAL -0.00 LOL 155.21 VL 28.068 GAL -7.69 AZL 96.57 MCA 155.18 SMA 132.07 ECC .17975 INC 6.5689 V1 30.092
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.835 GAP 2.36 AZP 84.03 TAL 220.44 TAP 15.62 RCA 108.33 APO 155.81 V2 34.783
 RC 105.643 GL -33.40 GP 59.52 ZAL 135.94 ZAP 104.87 ETS 29.29 ZAE 115.06 ETE 126.64 ZAC 85.06 ETC 162.64 CLP-120.39

PLANETOCENTRIC CONIC

C3 33.415 VHL 5.781 DLA -28.12 RAL 19.65 RAD 6568.3 VEL 12.441 PTH 2.25 VHP 6.071 DPA 52.67 RAP 334.63 ECC 1.5499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 55 39 1112.93 13.75 337.79 255.37 115.00 8 14 12 512.9 17.01 330.63
 90.00 8 53 35 924.93 18.83 326.33 257.65 111.55 9 9 0 324.9 21.59 318.74
 100.00 8 19 49 1034.74 8.64 329.42 252.73 118.73 8 37 4 434.7 12.41 322.66
 100.00 11 12 6 5766.39 24.23 273.46 259.73 108.07 12 48 12 5166.4 26.47 265.38
 110.00 8 22 15 1027.13 1.97 324.76 248.65 124.13 8 39 22 427.1 6.44 318.52
 110.00 13 26 10 5346.77 31.74 244.00 262.13 103.41 14 55 16 4746.8 33.26 235.11

DIFFERENTIAL CORRECTIONS

TDE-1.7075 TRA -.6993 TC3-1.1764 BAU .6646
 RDE .8193 RRA -.0056 RC3 .9105 FAU .05308
 FDE-1.8414 FRA .0045 FC3-1.3752 BSP 8137
 BOE 1.8939 BRA .6993 BC3 1.4876 FSP -670

MID-COURSE EXECUTION ACCURACY

SGT 2309.1 SGR 1329.5 SG3 209.1
 RRT -.9125 RRF -.9806 RTF .9388
 SGB 2664.5 R23 .2077 R13 -.9644
 SG1 2621.0 SG2 479.3 TMA 151.23

ORBIT DETERMINATION ACCURACY

ST 1709.3 SR 812.7 SS 957.6
 CRT -.9900 CRS .9999 CST -.9903
 LSA 2116.4 MSA 141.6 SSA 7.8
 EL1 1889.8 EL2 103.6 ALF 154.71

LAUNCH DATE FEB 24 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 338.194

RL 148.06 LAL -0.00 LOL 155.21 VL 28.030 GAL -7.53 AZL 97.75 MCA 158.31 SMA 131.79 ECC .17929 INC 7.7519 V1 30.092
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.806 GAP 2.67 AZP 82.79 TAL 219.41 TAP 17.72 RCA 108.16 APO 155.42 V2 34.783
 RC 108.045 GL -37.96 GP 62.62 ZAL 131.89 ZAP 105.37 ETS 34.56 ZAE 111.42 ETE 129.58 ZAC 83.30 ETC 164.38 CLP-125.18

PLANETOCENTRIC CONIC

C3 37.133 VHL 6.094 DLA -31.61 RAL 23.33 RAD 6568.4 VEL 12.590 PTH 2.28 VHP 6.684 DPA 54.34 RAP 330.06 ECC 1.6111
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.32 6 43 51 1415.87 17.34 1.98 262.83 116.86 7 7 27 815.9 20.80 354.76
 104.68 10 34 43 675.26 17.36 307.21 262.84 116.85 10 45 58 75.3 20.82 299.99
 75.32 6 43 51 1415.87 17.34 1.98 262.83 116.86 7 7 27 815.9 20.80 354.76
 104.68 10 34 43 675.26 17.36 307.21 262.84 116.85 10 45 58 75.3 20.82 299.99
 110.00 9 29 10 879.37 7.58 316.99 257.04 123.43 9 43 49 279.4 11.92 310.59
 110.00 12 48 35 5547.81 27.67 258.23 267.77 110.92 14 21 3 4947.8 30.26 249.99

DIFFERENTIAL CORRECTIONS

TDE-2.0903 TRA -.6030 TC3-1.1310 BAU .6804
 RDE .9135 RRA -.1161 RC3 .7741 FAU .04393
 FDE-1.7858 FRA .1150 FC3-1.0242 BSP 8620
 BOE 2.2812 BRA .6141 BC3 1.3706 FSP -581

MID-COURSE EXECUTION ACCURACY

SGT 2491.2 SGR 1282.3 SG3 181.1
 RRT -.9088 RRF -.9808 RTF .9453
 SGB 2801.9 R23 .2105 R13 -.9666
 SG1 2759.9 SG2 482.9 TMA 154.08

ORBIT DETERMINATION ACCURACY

ST 1976.0 SR 860.2 SS 970.2
 CRT -.9893 CRS .9997 CST -.9923
 LSA 2358.9 MSA 145.6 SSA 6.2
 EL1 2152.0 EL2 115.3 ALF 156.63

LAUNCH DATE FEB 24 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 344.243

RL 148.06 LAL -1.00 LOL 155.21 VL 27.989 GAL -7.35 AZL 99.31 HCA 161.43 SMA 131.49 ECC .17887 INC 9.3109 V1 30.092
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.777 GAP 2.96 AZP 81.17 TAL 218.32 TAP 19.74 RCA 107.97 APO 155.01 V2 34.784
 RC 110.446 GL -43.06 GP 66.17 ZAL 127.21 ZAP 105.23 ETS 40.58 ZAE 107.41 ETE 133.02 ZAC 81.36 ETC 166.81 CLP-130.54

PLANETOCENTRIC CONIC

C3 43.267 VHL 6.578 DLA -35.40 RAL 27.82 RAD 6568.6 VEL 12.831 PTH 2.34 VHP 7.521 DPA 56.09 RAP 324.40 ECC 1.7121
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.82 6 14 51 1598.82 17.89 16.45 270.79 121.07 6 41 30 998.8 21.87 9.48
 112.18 11 39 35 5857.56 17.90 277.26 270.80 121.06 13 17 13 5257.6 21.88 270.29
 67.82 6 14 51 1598.82 17.89 16.45 270.79 121.07 6 41 30 998.8 21.87 9.48
 112.18 11 39 35 5857.56 17.90 277.26 270.80 121.06 13 17 13 5257.6 21.88 270.29
 67.82 6 14 51 1598.82 17.89 16.45 270.79 121.07 6 41 30 998.8 21.87 9.48
 112.18 11 39 35 5857.56 17.90 277.26 270.80 121.06 13 17 13 5257.6 21.88 270.29

DIFFERENTIAL CORRECTIONS

TOE-2.6043 TRA -4.428 TC3 -1.0197 BAU .6849
 RDE .9849 RRA -2.506 RC3 .6016 FAU .03489
 FDE-1.7204 FRA .2157 FC3 -.6981 BSP 9055
 BOE 2.7843 BRA .5087 BC3 1.1840 FSP -488

MID-COURSE EXECUTION ACCURACY

SGT 2677.6 SGR 1197.5 SG3 153.2
 RRT -.8986 RRF -.9771 RTF .9528
 SGB 2933.2 R23 .2085 R13 -.9697
 SG1 2892.6 SG2 486.5 THA 157.43

ORBIT DETERMINATION ACCURACY

ST 2273.3 SR 862.0 SS 975.0
 CRT -.9878 CRS .9988 CST -.9941
 LSA 2615.2 MSA 149.1 SSA 4.8
 EL1 2428.0 EL2 125.5 ALF 159.41

LAUNCH DATE FEB 24 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 350.254

RL 148.06 LAL -1.00 LOL 155.21 VL 27.946 GAL -7.16 AZL 101.47 HCA 164.52 SMA 131.18 ECC .17847 INC 11.4705 V1 30.092
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.747 GAP 3.24 AZP 78.93 TAL 217.16 TAP 21.69 RCA 107.77 APO 154.59 V2 34.786
 RC 112.844 GL -48.64 GP 70.23 ZAL 121.90 ZAP 104.41 ETS 48.05 ZAE 102.89 ETE 137.77 ZAC 79.08 ETC 170.72 CLP-137.36

PLANETOCENTRIC CONIC

C3 53.973 VHL 7.347 DLA -39.30 RAL 33.39 RAD 6569.0 VEL 13.241 PTH 2.42 VHP 8.717 DPA 57.72 RAP 317.14 ECC 1.8883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.52 6 4 35 1749.27 17.46 28.39 280.79 125.79 6 33 44 1149.3 22.01 21.81
 118.48 12 34 17 5817.61 17.47 273.71 280.80 125.78 14 11 15 5217.6 22.02 267.13
 61.52 6 4 35 1749.27 17.46 28.39 280.79 125.79 6 33 44 1149.3 22.01 21.81
 118.48 12 34 17 5817.61 17.47 273.71 280.80 125.78 14 11 15 5217.6 22.02 267.13
 61.52 6 4 35 1749.27 17.46 28.39 280.79 125.79 6 33 44 1149.3 22.01 21.81
 118.48 12 34 17 5817.61 17.47 273.71 280.80 125.78 14 11 15 5217.6 22.02 267.13

DIFFERENTIAL CORRECTIONS

TOE-3.3278 TRA -.1761 TC3 -.8390 BAU .6710
 RDE .9671 RRA -.4055 RC3 .4011 FAU .02627
 FDE-1.6532 FRA .3044 FC3 -.4214 BSP 9503
 BOE 3.4655 BRA .4421 BC3 .9300 FSP -402

MID-COURSE EXECUTION ACCURACY

SGT 2878.7 SGR 1040.8 SG3 126.4
 RRT -.8716 RRF -.9608 RTF .9630
 SGB 3061.1 R23 .1972 R13 -.9746
 SG1 3022.3 SG2 485.9 THA 162.03

ORBIT DETERMINATION ACCURACY

ST 2596.1 SR 764.4 SS 973.6
 CRT -.9835 CRS .9959 CST -.9958
 LSA 2872.2 MSA 150.5 SSA 3.6
 EL1 2703.1 EL2 132.7 ALF 163.81

LAUNCH DATE FEB 24 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 356.215

RL 148.06 LAL -1.00 LOL 155.21 VL 27.902 GAL -6.96 AZL 104.67 HCA 167.59 SMA 130.86 ECC .17807 INC 14.6730 V1 30.092
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.717 GAP 3.50 AZP 75.66 TAL 215.93 TAP 23.52 RCA 107.56 APO 154.17 V2 34.789
 RC 115.239 GL -54.45 GP 74.80 ZAL 115.99 ZAP 102.88 ETS 58.88 ZAE 97.62 ETE 145.86 ZAC 76.19 ETC 178.15 CLP-148.20

PLANETOCENTRIC CONIC

C3 74.362 VHL 8.623 DLA -42.95 RAL 40.31 RAD 6569.4 VEL 13.990 PTH 2.55 VHP 10.545 DPA 58.80 RAP 307.64 ECC 2.2238
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.24 6 9 1 1890.77 15.45 38.93 293.03 130.60 6 40 32 1290.8 20.55 32.87
 123.76 13 25 4 5830.47 15.46 273.17 293.04 130.59 15 2 14 5230.5 20.57 267.11
 56.24 6 9 1 1890.77 15.45 38.93 293.03 130.60 6 40 32 1290.8 20.55 32.87
 123.76 13 25 4 5830.47 15.46 273.17 293.04 130.59 15 2 14 5230.5 20.57 267.11
 56.24 6 9 1 1890.77 15.45 38.93 293.03 130.60 6 40 32 1290.8 20.55 32.87
 123.76 13 25 4 5830.47 15.46 273.17 293.04 130.59 15 2 14 5230.5 20.57 267.11

DIFFERENTIAL CORRECTIONS

TOE-4.3820 TRA .2983 TC3 -.5919 BAU .6179
 RDE .6092 RRA -.5460 RC3 .1897 FAU .01805
 FDE-1.5947 FRA .3908 FC3 -.2102 BSP 9907
 BOE 4.4242 BRA .6222 BC3 .6215 FSP -321

MID-COURSE EXECUTION ACCURACY

SGT 3097.2 SGR 718.7 SG3 101.5
 RRT -.7397 RRF -.8567 RTF .9760
 SGB 3179.5 R23 .1741 R13 -.9810
 SG1 3143.5 SG2 476.5 THA 170.03

ORBIT DETERMINATION ACCURACY

ST 2912.8 SR 431.3 SS 970.2
 CRT -.9479 CRS .9684 CST -.9974
 LSA 3096.7 MSA 149.0 SSA 2.7
 EL1 2941.4 EL2 136.1 ALF 171.99

LAUNCH DATE FEB 24 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 362.095

RL 148.06 LAL -1.00 LOL 155.21 VL 27.857 GAL -6.74 AZL 109.91 HCA 170.60 SMA 130.54 ECC .17760 INC 19.9086 V1 30.092
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.686 GAP 3.73 AZP 70.34 TAL 214.61 TAP 25.21 RCA 107.36 APO 153.72 V2 34.792
 RC 117.630 GL -59.80 GP 79.25 ZAL 109.65 ZAP 100.64 ETS 78.87 ZAE 91.11 ETE 163.22 ZAC 72.19 ETC 195.10 CLP-171.89

PLANETOCENTRIC CONIC

C3 118.812 VHL 10.900 DLA -45.55 RAL 48.71 RAD 6570.2 VEL 15.497 PTH 2.76 VHP 13.609 DPA 58.48 RAP 295.45 ECC 2.9553
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.70 6 28 43 2029.10 11.39 47.67 307.29 134.41 7 2 33 1429.1 16.92 42.12
 127.30 14 12 18 608.14 11.41 297.41 307.30 134.40 14 22 26 8.1 16.94 291.86
 52.70 6 28 43 2029.10 11.39 47.67 307.29 134.41 7 2 33 1429.1 16.92 42.12
 127.30 14 12 18 608.14 11.41 297.41 307.30 134.40 14 22 26 8.1 16.94 291.86
 52.70 6 28 43 2029.10 11.39 47.67 307.29 134.41 7 2 33 1429.1 16.92 42.12
 127.30 14 12 18 608.14 11.41 297.41 307.30 134.40 14 22 26 8.1 16.94 291.86

DIFFERENTIAL CORRECTIONS

TOE-5.7383 TRA 1.1975 TC3 -.2959 BAU .4710
 RDE-1.1222 RRA -.3947 RC3 .0189 FAU .00996
 FDE-1.5791 FRA .4975 FC3 -.0725 BSP 10202
 BOE 5.8470 BRA 1.2609 BC3 .2965 FSP -251

MID-COURSE EXECUTION ACCURACY

SGT 3212.8 SGR 661.4 SG3 79.8
 RRT .6995 RRF .6097 RTF .9910
 SGB 3280.2 R23 -.1379 R13 .9883
 SG1 3246.7 SG2 467.7 THA 8.37

ORBIT DETERMINATION ACCURACY

ST 3028.4 SR 596.6 SS 984.8
 CRT .9716 CRS -.9600 CST -.9990
 LSA 3236.5 MSA 147.4 SSA 2.1
 EL1 3083.5 EL2 138.6 ALF 10.86

LAUNCH DATE FEB 24 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 367.805

RL 148.06 LAL -0.00 LOL 155.21 VL 27.810 GAL -6.48 AZL 119.82 HCA 173.46 SMA 130.21 ECC .17688 INC29.8195 V1 30.092
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.656 GAP 3.91 AZP 60.34 TAL 213.14 TAP 26.59 RCA 107.18 APO 153.24 V2 34.796
 RC 120.015 GL -62.80 GP 79.29 ZAL 103.22 ZAP 97.80 ETS 120.17 ZAE 82.13 ETE 202.06 ZAC 65.83 ETC 234.12 CLP 136.90

PLANETOCENTRIC CONIC

C3 238.699 VHL 15.450 DLA -45.33 RAL 57.90 RAD 6571.4 VEL 18.974 PTH 3.08 VHP 19.487 DPA 54.94 RAP 280.94 ECC 4.9284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.00 7 6 31 2144.79 5.68 52.67 322.25 135.05 7 42 16 1544.8 11.30 47.33
 127.00 14 47 53 729.56 5.69 302.94 322.26 135.05 15 0 3 129.6 11.32 297.60
 53.00 7 6 31 2144.79 5.68 52.67 322.25 135.05 7 42 16 1544.8 11.30 47.33
 127.00 14 47 53 729.56 5.69 302.94 322.26 135.05 15 0 3 129.6 11.32 297.60
 53.00 7 6 31 2144.79 5.68 52.67 322.25 135.05 7 42 16 1544.8 11.30 47.33
 127.00 14 47 53 729.56 5.69 302.94 322.26 135.05 15 0 3 129.6 11.32 297.60

DIFFERENTIAL CORRECTIONS

TDE-4.4090 TRA 2.3086 TC3 -.0383 BAU .1506
 ROE-6.8261 RRA 1.4196 RC3 .0276 FAU-.00022
 FDE-1.6938 FRA .7016 FC3 .0008 BSP 10322
 BOE 8.1261 BRA 2.7102 BC3 .0472 FSP -197

MID-COURSE EXECUTION ACCURACY

SGT 2042.2 SGR 2641.3 SG3 63.0
 RRT .9346 RRF .9698 RTF .9923
 SGB 3338.7 R23 -.1099 R13 .9934
 SG1 3287.2 SG2 583.8 THA 52.78

ORBIT DETERMINATION ACCURACY

ST 1675.4 SR 2541.4 SS 1074.0
 CRT .9914 CRS -.9963 CST -.9990
 LSA 3222.3 MSA 189.5 SSA 1.2
 EL1 3038.4 EL2 183.5 ALF 56.70

LAUNCH DATE FEB 24 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 373.018

RL 148.06 LAL -0.00 LOL 155.21 VL 27.763 GAL -6.11 AZL 142.71 HCA 175.85 SMA 129.87 ECC .17526 INC52.7117 V1 30.092
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.625 GAP 3.95 AZP 37.36 TAL 211.26 TAP 27.12 RCA 107.11 APO 152.63 V2 34.800
 RC 122.394 GL -57.90 GP 67.11 ZAL 97.42 ZAP 94.70 ETS 160.07 ZAE 66.92 ETE 239.32 ZAC 53.34 ETC 274.04 CLP 102.16

PLANETOCENTRIC CONIC

C3 672.230 VHL 25.927 DLA -37.77 RAL 65.05 RAD 6572.7 VEL 28.170 PTH 3.42 VHP 32.728 DPA 43.62 RAP 266.17 ECC12.0632
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.88 8 22 22 2116.00 .64 45.74 334.21 127.77 8 57 38 1516.0 5.52 39.81
 116.12 14 29 4 962.58 .65 318.65 334.22 127.77 14 45 7 362.6 5.54 312.72
 63.88 8 22 22 2116.00 .64 45.74 334.21 127.77 8 57 38 1516.0 5.52 39.81
 116.12 14 29 4 962.58 .65 318.65 334.22 127.77 14 45 7 362.6 5.54 312.72
 63.88 8 22 22 2116.00 .64 45.74 334.21 127.77 8 57 38 1516.0 5.52 39.81
 116.12 14 29 4 962.58 .65 318.65 334.22 127.77 14 45 7 362.6 5.54 312.72

DIFFERENTIAL CORRECTIONS

TDE 1.9774 TRA 1.5984 TC3 -.0318 BAU 1.5856
 RD-11.5095 RRA 5.8746 RC3 .1735 FAU-.02445
 FDE-2.1181 FRA 1.2718 FC3 .0315 BSP 9897
 BOE11.6781 BRA 6.0882 BC3 .1764 FSP -166

MID-COURSE EXECUTION ACCURACY

SGT 646.4 SGR 3158.5 SG3 52.7
 RRT -.2576 RRF .9972 RTF -.1841
 SGB 3224.0 R23 -.0861 R13 .9963
 SG1 3163.1 SG2 623.7 THA 93.14

ORBIT DETERMINATION ACCURACY

ST 457.1 SR 2590.9 SS 1357.6
 CRT -.8828 CRS -.9995 CST .8670
 LSA 2952.4 MSA 219.1 SSA .5
 EL1 2622.3 EL2 212.1 ALF 98.91

LAUNCH DATE FEB 24 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 383.548

RL 148.06 LAL -0.00 LOL 155.21 VL 27.715 GAL -6.82 AZL 11.09 HCA 183.40 SMA 129.53 ECC .18516 INC78.9139 V1 30.092
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.594 GAP 5.47 AZP 168.90 TAL 213.07 TAP 36.47 RCA 105.55 APO 153.51 V2 34.805
 RC 124.766 GL 47.13 GP -53.16 ZAL 95.74 ZAP 94.62 ETS 180.57 ZAE 56.71 ETE 104.60 ZAC 68.15 ETC 72.05 CLP 97.71

PLANETOCENTRIC CONIC

C31357.829 VHL 36.849 DLA 63.99 RAL 31.71 RAD 6573.1 VEL 38.459 PTH 3.55 VHP 45.782 DPA -72.90 RAP 222.94 ECC23.3464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.87 16 12 35 5071.10 1.11 243.57 302.27 26.01 17 37 7 4471.1 -6.07 240.47
 150.13 2 12 53 3363.09 1.12 101.19 302.25 26.01 3 8 56 2763.1 -6.06 98.09
 29.87 16 12 35 5071.10 1.11 243.57 302.27 26.01 17 37 7 4471.1 -6.07 240.47
 150.13 2 12 53 3363.09 1.12 101.19 302.25 26.01 3 8 56 2763.1 -6.06 98.09
 29.87 16 12 35 5071.10 1.11 243.57 302.27 26.01 17 37 7 4471.1 -6.07 240.47
 150.13 2 12 53 3363.09 1.12 101.19 302.25 26.01 3 8 56 2763.1 -6.06 98.09

DIFFERENTIAL CORRECTIONS

TDE-4.5653 TRA 1.6511 TC3 -.0956 BAU 3.8210
 RD-15.3068 RRA .4616 RC3 -.1875 FAU-.06044
 FDE 3.2723 FRA -.0780 FC3 .0385 BSP 9071
 BOE15.9732 BRA 1.7144 BC3 .2105 FSP -163

MID-COURSE EXECUTION ACCURACY

SGT 1158.8 SGR 2757.1 SG3 50.4
 RRT .8635 RRF -.9998 RTF -.8542
 SGB 2990.7 R23 -.0883 R13 -.9960
 SG1 2940.1 SG2 548.1 THA 69.30

ORBIT DETERMINATION ACCURACY

ST 731.6 SR 2380.9 SS 2013.2
 CRT .9754 CRS 1.0000 CST .9745
 LSA 3198.7 MSA 158.5 SSA .7
 EL1 2486.0 EL2 154.4 ALF 73.25

LAUNCH DATE FEB 24 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 388.011

RL 148.06 LAL -0.00 LOL 155.21 VL 27.665 GAL -6.28 AZL 48.60 HCA 185.09 SMA 129.19 ECC .18187 INC41.4018 V1 30.092
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.563 GAP 5.30 AZP 131.29 TAL 210.72 TAP 35.82 RCA 105.69 APO 152.68 V2 34.811
 RC 127.128 GL 61.04 GP -73.09 ZAL 99.49 ZAP 98.05 ETS 196.16 ZAE 78.75 ETE 118.26 ZAC 87.69 ETC 90.50 CLP 118.77

PLANETOCENTRIC CONIC

C3 432.018 VHL 20.785 DLA 70.00 RAL 354.59 RAD 6572.2 VEL 23.523 PTH 3.29 VHP 25.572 DPA -82.46 RAP 96.85 ECC 8.1099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.86 13 28 48 5025.74 -3.18 245.99 263.44 20.03 14 52 34 4425.7 -10.69 243.63
 157.14 0 0 27 3272.49 -3.18 95.94 263.42 20.03 0 55 0 2672.5 -10.68 93.57
 22.86 13 28 48 5025.74 -3.18 245.99 263.44 20.03 14 52 34 4425.7 -10.69 243.63
 157.14 0 0 27 3272.49 -3.18 95.94 263.42 20.03 0 55 0 2672.5 -10.68 93.57
 22.86 13 28 48 5025.74 -3.18 245.99 263.44 20.03 14 52 34 4425.7 -10.69 243.63
 157.14 0 0 27 3272.49 -3.18 95.94 263.42 20.03 0 55 0 2672.5 -10.68 93.57

DIFFERENTIAL CORRECTIONS

TOE 1.5491 TRA .6451 TC3 -.0348 BAU .8457
 ROE-8.2423 RRA 3.2313 RC3 -.1422 FAU-.00949
 FDE 1.7330 FRA -.5805 FC3 .0190 BSP 10958
 BOE 8.3866 BRA 3.2950 BC3 .1464 FSP -187

MID-COURSE EXECUTION ACCURACY

SGT 688.2 SGR 3506.4 SG3 58.2
 RRT .1945 RRF -.9956 RTF -.1094
 SGB 3573.3 R23 -.0935 R13 -.9950
 SG1 3509.1 SG2 674.5 THA 87.73

ORBIT DETERMINATION ACCURACY

ST 454.6 SR 2402.7 SS 1100.1
 CRT -.7765 CRS .9990 CST -.8044
 LSA 2666.3 MSA 284.8 SSA 1.5
 EL1 2428.9 EL2 283.4 ALF 98.48

LAUNCH DATE FEB 24 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 393.470

RL 148.06 LAL -.00 LOL 155.21 VL 27.616 GAL -5.95 AZL 64.10 HCA 187.77 SMA 128.84 ECC .18099 INC25.8991 V1 30.092
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.533 GAP 5.40 AZP 115.69 TAL 208.99 TAP 36.76 RCA 105.52 APO 152.16 V2 34.818
 RC 129.481 GL 62.33 GP -76.64 ZAL 103.92 ZAP 102.81 ETS 246.45 ZAE 90.70 ETE 167.79 ZAC 97.38 ETC 141.50 CLP 163.60

PLANETOCENTRIC CONIC

C3 183.513 VHL 13.547 DLA 66.33 RAL 343.51 RAD 6571.0 VEL 17.460 PTH 2.96 VHP 16.499 DPA -71.63 RAP 64.68 ECC 4.0202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.13 12 54 0 4905.32 -9.80 240.96 249.18 24.04 14 15 45 4305.3 -17.08 237.98
 152.87 23 2 56 3177.84 -9.79 95.50 249.16 24.04 23 55 54 2577.8 -17.07 92.52
 27.13 12 54 0 4905.32 -9.80 240.96 249.18 24.04 14 15 45 4305.3 -17.08 237.98
 152.87 23 2 56 3177.84 -9.79 95.50 249.16 24.04 23 55 54 2577.8 -17.07 92.52
 27.13 12 54 0 4905.32 -9.80 240.96 249.18 24.04 14 15 45 4305.3 -17.08 237.98
 152.87 23 2 56 3177.84 -9.79 95.50 249.16 24.04 23 55 54 2577.8 -17.07 92.52

DIFFERENTIAL CORRECTIONS

TDE 3.7305 TRA-2.1784 TC3 -.0802 BAU .2023
 RDE -1.8088 RRA 2.3145 RC3 .0191 FAU .00853
 FDE 1.1101 FRA -.6587 FC3 -.0403 BSP 11891
 BDE 4.1459 BRA 3.1784 BC3 .0825 FSP -238

MID-COURSE EXECUTION ACCURACY

SGT 2793.5 SGR 2556.1 SG3 73.0
 RRT -.9543 RRF -.9524 RTF .9986
 SGB 3786.5 R23 -.1393 R13 -.9889
 SG1 3743.3 SG2 569.9 THA 137.66

ORBIT DETERMINATION ACCURACY

ST 1721.5 SR 1058.5 SS 732.2
 CRT -.9388 CRS .9408 CST -1.0000
 LSA 2125.5 MSA 320.0 SSA 1.8
 EL1 1996.3 EL2 314.3 ALF 149.16

LAUNCH DATE FEB 24 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 399.196

RL 148.06 LAL -.00 LOL 155.21 VL 27.565 GAL -5.66 AZL 71.44 HCA 190.72 SMA 128.50 ECC .18082 INC18.5635 V1 30.092
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.502 GAP 5.58 AZP 108.26 TAL 207.41 TAP 38.12 RCA 105.26 APO 151.73 V2 34.825
 RC 131.823 GL 59.53 GP -71.80 ZAL 107.91 ZAP 107.95 ETS 281.93 ZAE 98.58 ETE 202.11 ZAC 103.34 ETC 176.93 CLP -170.51

PLANETOCENTRIC CONIC

C3 102.668 VHL 10.133 DLA 62.26 RAL 344.38 RAD 6570.0 VEL 14.967 PTH 2.70 VHP 12.272 DPA -63.20 RAP 55.41 ECC 2.6897
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.92 13 8 40 4778.42 -15.99 234.36 245.73 28.96 14 28 18 4178.4 -22.94 230.59
 148.08 22 55 16 3086.67 -15.98 94.36 245.71 28.96 23 46 42 2486.7 -22.93 90.58
 31.92 13 8 40 4778.42 -15.99 234.36 245.73 28.96 14 28 18 4178.4 -22.94 230.59
 148.08 22 55 16 3086.67 -15.98 94.36 245.71 28.96 23 46 42 2486.7 -22.93 90.58
 31.92 13 8 40 4778.42 -15.99 234.36 245.73 28.96 14 28 18 4178.4 -22.94 230.59
 148.08 22 55 16 3086.67 -15.98 94.36 245.71 28.96 23 46 42 2486.7 -22.93 90.58

DIFFERENTIAL CORRECTIONS

TDE 2.9186 TRA-2.7984 TC3 -.3873 BAU .5316
 RDE .3830 RRA .4761 RC3 -.0025 FAU .01890
 FDE 1.0275 FRA -.6881 FC3 -.1594 BSP 12238
 BDE 2.9436 BRA 2.8386 BC3 .3873 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 3859.7 SGR 617.6 SG3 92.3
 RRT -.6733 RRF -.5398 RTF .9835
 SGB 3908.8 R23 -.1781 R13 -.9813
 SG1 3882.4 SG2 454.0 THA 173.77

ORBIT DETERMINATION ACCURACY

ST 1940.2 SR 277.5 SS 671.1
 CRT .3351 CRS -.4687 CST -.9893
 LSA 2053.2 MSA 275.6 SSA 2.3
 EL1 1942.5 EL2 261.1 ALF 2.79

LAUNCH DATE FEB 24 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 405.009

RL 148.06 LAL -.00 LOL 155.21 VL 27.515 GAL -5.39 AZL 75.60 HCA 193.76 SMA 128.15 ECC .18095 INC14.4008 V1 30.092
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.472 GAP 5.78 AZP 104.00 TAL 205.87 TAP 39.63 RCA 104.96 APO 151.34 V2 34.833
 RC 134.153 GL 55.74 GP -65.56 ZAL 111.19 ZAP 113.09 ETS 293.62 ZAE 104.59 ETE 212.07 ZAC 107.79 ETC 188.04 CLP -161.38

PLANETOCENTRIC CONIC

C3 67.947 VHL 8.243 DLA 58.63 RAL 347.98 RAD 6569.3 VEL 13.759 PTH 2.51 VHP 9.998 DPA -56.01 RAP 50.25 ECC 2.1182
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.25 13 33 50 4665.54 -20.72 227.46 244.66 33.82 14 51 36 4065.5 -27.29 222.87
 143.75 22 58 46 3013.19 -20.71 92.72 244.64 33.81 23 48 59 2413.2 -27.28 88.14
 36.25 13 33 50 4665.54 -20.72 227.46 244.66 33.82 14 51 36 4065.5 -27.29 222.87
 143.75 22 58 46 3013.19 -20.71 92.72 244.64 33.81 23 48 59 2413.2 -27.28 88.14
 36.25 13 33 50 4665.54 -20.72 227.46 244.66 33.82 14 51 36 4065.5 -27.29 222.87
 143.75 22 58 46 3013.19 -20.71 92.72 244.64 33.81 23 48 59 2413.2 -27.28 88.14

DIFFERENTIAL CORRECTIONS

TDE 2.3314 TRA-2.5562 TC3 -.7539 BAU .6916
 RDE .7021 RRA -.0321 RC3 -.1063 FAU .02729
 FDE 1.0490 FRA -.7007 FC3 -.3477 BSP 12609
 BDE 2.4349 BRA 2.5564 BC3 .7613 FSP -375

MID-COURSE EXECUTION ACCURACY

SGT 3977.7 SGR 520.3 SG3 113.8
 RRT .5580 RRF .7241 RTF .9709
 SGB 4011.6 R23 .2120 R13 .9726
 SG1 3988.4 SG2 430.6 THA 4.22

ORBIT DETERMINATION ACCURACY

ST 1917.3 SR 488.2 SS 675.1
 CRT .8591 CRS -.9423 CST -.9808
 LSA 2073.5 MSA 266.4 SSA 3.0
 EL1 1963.4 EL2 244.0 ALF 12.54

LAUNCH DATE FEB 24 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 410.857

RL 148.06 LAL -.00 LOL 155.21 VL 27.464 GAL -5.11 AZL 78.27 HCA 196.85 SMA 127.81 ECC .18129 INC11.7312 V1 30.092
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.443 GAP 6.00 AZP 101.24 TAL 204.33 TAP 41.19 RCA 104.64 APO 150.98 V2 34.841
 RC 136.471 GL 51.90 GP -59.55 ZAL 113.73 ZAP 118.03 ETS 298.48 ZAE 109.41 ETE 214.73 ZAC 111.48 ETC 191.91 CLP -158.01

PLANETOCENTRIC CONIC

C3 49.956 VHL 7.068 DLA 55.47 RAL 352.07 RAD 6568.8 VEL 13.089 PTH 2.39 VHP 8.653 DPA -49.58 RAP 47.03 ECC 1.8221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.09 14 0 30 4569.69 -24.01 220.75 244.24 38.36 15 16 40 3969.7 -30.17 215.44
 139.91 23 4 45 2958.77 -23.99 91.03 244.22 38.35 23 54 4 2358.8 -30.16 85.71
 40.09 14 0 30 4569.69 -24.01 220.75 244.24 38.36 15 16 40 3969.7 -30.17 215.44
 139.91 23 4 45 2958.77 -23.99 91.03 244.22 38.35 23 54 4 2358.8 -30.16 85.71
 40.09 14 0 30 4569.69 -24.01 220.75 244.24 38.36 15 16 40 3969.7 -30.17 215.44
 139.91 23 4 45 2958.77 -23.99 91.03 244.22 38.35 23 54 4 2358.8 -30.16 85.71

DIFFERENTIAL CORRECTIONS

TDE 2.0247 TRA-2.3260 TC3 -1.1541 BAU .7829
 RDE .6968 RRA -.1534 RC3 -.2051 FAU .03448
 FDE 1.0756 FRA -.6913 FC3 -.5976 BSP 12974
 BDE 2.1412 BRA 2.3310 BC3 1.1722 FSP -451

MID-COURSE EXECUTION ACCURACY

SGT 4052.0 SGR 671.7 SG3 135.3
 RRT .7825 RRF .9074 RTF .9611
 SGB 4107.3 R23 .2367 R13 .9644
 SG1 4086.3 SG2 414.8 THA 7.47

ORBIT DETERMINATION ACCURACY

ST 1921.5 SR 568.7 SS 688.8
 CRT .9089 CRS -.9776 CST -.9763
 LSA 2103.0 MSA 259.0 SSA 3.9
 EL1 1990.7 EL2 229.0 ALF 15.26

LAUNCH DATE FEB 24 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 416.718

RL 148.06 LAL -0.00 LOL 155.21 VL 27.413 GAL -4.83 AZL 80.13 HCA 199.97 SMA 127.46 ECC .18177 INC 9.8714 V1 30.092
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.414 GAP 6.21 AZP 99.29 TAL 202.79 TAP 42.76 RCA 104.29 APO 150.63 V2 34.850
 RC 138.775 GL 48.28 GP -54.07 ZAL 115.56 ZAP 122.65 ETS 301.11 ZAE 113.34 ETE 214.81 ZAC 114.71 ETC 193.29 CLP-156.84

PLANETOCENTRIC CONIC

C3 39.363 VHL 6.274 DLA 52.73 RAL 356.13 RAD 6568.5 VEL 12.678 PTH 2.30 VHP 7.811 OPA -43.77 RAP 45.01 ECC 1.6478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.46 14 26 24 4488.76 -26.18 214.53 244.17 42.44 15 41 13 3888.8 -31.95 208.59
 136.54 23 11 12 2919.89 -26.17 89.51 244.15 42.43 23 59 52 2319.9 -31.93 83.57
 43.46 14 26 24 4488.76 -26.18 214.53 244.17 42.44 15 41 13 3888.8 -31.95 208.59
 136.54 23 11 12 2919.89 -26.17 89.51 244.15 42.43 23 59 52 2319.9 -31.93 83.57
 43.46 14 26 24 4488.76 -26.18 214.53 244.17 42.44 15 41 13 3888.8 -31.95 208.59
 136.54 23 11 12 2919.89 -26.17 89.51 244.15 42.43 23 59 52 2319.9 -31.93 83.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8348 TRA-2.1378 TC3-1.5783 BAU .8438 SGT 4138.2 SGR 725.7 SG3 154.8 ST 1935.7 SR 584.1 SS 697.9
 RDE .6339 RRA -.1694 RC3 -.2831 FAU .04044 RRT .8316 RRF .9407 RTF .9533 CRT .9242 CRS -.9871 CST -.9733
 FDE 1.0840 FRA -.6577 FC3 -.8893 BSP 13341 SGB 4201.4 R23 .2530 R13 .9569 LSA 2124.0 MSA 252.1 SSA 4.8
 BDE 1.9413 BRA 2.1445 BC3 1.6035 FSP -522 SG1 4182.4 SG2 398.8 THA 8.37 EL1 2010.4 EL2 214.8 ALF 15.77

LAUNCH DATE FEB 24 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 422.586

RL 148.06 LAL -0.00 LOL 155.21 VL 27.362 GAL -4.55 AZL 81.50 HCA 203.11 SMA 127.12 ECC .18239 INC 8.4966 V1 30.092
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.385 GAP 6.43 AZP 97.82 TAL 201.23 TAP 44.34 RCA 103.93 APO 150.30 V2 34.860
 RC 141.067 GL 44.96 GP -49.17 ZAL 116.75 ZAP 126.90 ETS 302.83 ZAE 116.55 ETE 213.81 ZAC 117.63 ETC 193.62 CLP-156.67

PLANETOCENTRIC CONIC

C3 32.527 VHL 5.703 DLA 50.39 RAL .04 RAD 6568.3 VEL 12.406 PTH 2.24 VHP 7.266 OPA -38.53 RAP 43.84 ECC 1.5353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.41 14 51 7 4419.77 -27.59 208.88 244.43 46.00 16 4 46 3819.8 -32.98 202.45
 133.59 23 17 44 2892.55 -27.57 88.25 244.42 45.99 24 5 56 2292.5 -32.96 81.81
 46.41 14 51 7 4419.77 -27.59 208.88 244.43 46.00 16 4 46 3819.8 -32.98 202.45
 133.59 23 17 44 2892.55 -27.57 88.25 244.42 45.99 24 5 56 2292.5 -32.96 81.81
 46.41 14 51 7 4419.77 -27.59 208.88 244.43 46.00 16 4 46 3819.8 -32.98 202.45
 133.59 23 17 44 2892.55 -27.57 88.25 244.42 45.99 24 5 56 2292.5 -32.96 81.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.7362 TRA-1.9438 TC3-1.9777 BAU .8714 SGT 4184.8 SGR 723.1 SG3 168.7 ST 1972.6 SR 585.0 SS 713.3
 RDE .5784 RRA -.1410 RC3 -.5231 FAU .04384 RRT .8346 RRF .9442 RTF .9432 CRT .9320 CRS -.9917 CST -.9707
 FDE 1.0973 FRA -.5758 FC3-1.1669 BSP 12886 SGB 4246.8 R23 .2723 R13 .9470 LSA 2163.3 MSA 249.8 SSA 5.8
 BDE 1.8300 BRA 1.9489 BC3 2.0040 FSP -528 SG1 4228.5 SG2 394.2 THA 8.28 EL1 2047.4 EL2 204.3 ALF 15.61

LAUNCH DATE FEB 24 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 428.447

RL 148.06 LAL -0.00 LOL 155.21 VL 27.311 GAL -4.26 AZL 82.57 HCA 206.25 SMA 126.78 ECC .18315 INC 7.4344 V1 30.092
 RP 108.68 LAP -3.28 LOP 35.27 VP 37.357 GAP 6.66 AZP 96.67 TAL 199.66 TAP 45.91 RCA 103.56 APO 150.00 V2 34.870
 RC 143.344 GL 41.93 GP -44.83 ZAL 117.38 ZAP 130.76 ETS 304.12 ZAE 119.14 ETE 212.30 ZAC 120.32 ETC 193.45 CLP-157.01

PLANETOCENTRIC CONIC

C3 27.808 VHL 5.273 DLA 48.38 RAL 3.83 RAD 6568.1 VEL 12.214 PTH 2.19 VHP 6.911 OPA -33.80 RAP 43.26 ECC 1.4576
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.97 15 14 38 4360.26 -28.48 203.83 245.03 49.07 16 27 19 3760.3 -33.53 197.00
 131.03 23 24 24 2873.48 -28.47 87.26 245.02 49.07 24 12 17 2273.5 -33.51 80.43
 48.97 15 14 38 4360.26 -28.48 203.83 245.03 49.07 16 27 19 3760.3 -33.53 197.00
 131.03 23 24 24 2873.48 -28.47 87.26 245.02 49.07 24 12 17 2273.5 -33.51 80.43
 48.97 15 14 38 4360.26 -28.48 203.83 245.03 49.07 16 27 19 3760.3 -33.53 197.00
 131.03 23 24 24 2873.48 -28.47 87.26 245.02 49.07 24 12 17 2273.5 -33.51 80.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6263 TRA-1.8091 TC3-2.4364 BAU .9159 SGT 4299.4 SGR 708.3 SG3 182.9 ST 1979.1 SR 562.5 SS 704.0
 RDE .5146 RRA -.1232 RC3 -.3652 FAU .04766 RRT .8454 RRF .9443 RTF .9389 CRT .9365 CRS -.9940 CST -.9691
 FDE 1.0591 FRA -.5145 FC3-1.4837 BSP 13561 SGB 4357.4 R23 .2705 R13 .9423 LSA 2161.1 MSA 241.5 SSA 7.0
 BDE 1.7058 BRA 1.8133 BC3 2.4636 FSP -597 SG1 4341.2 SG2 374.7 THA 7.99 EL1 2048.7 EL2 190.5 ALF 15.04

LAUNCH DATE FEB 24 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 434.305

RL 148.06 LAL -0.00 LOL 155.21 VL 27.259 GAL -3.96 AZL 83.42 HCA 209.40 SMA 126.44 ECC .18404 INC 6.5848 V1 30.092
 RP 108.65 LAP -3.23 LOP 37.329 VP 37.329 GAP 6.88 AZP 95.74 TAL 198.08 TAP 47.48 RCA 103.17 APO 149.71 V2 34.880
 RC 145.608 GL 39.17 GP -41.01 ZAL 117.49 ZAP 134.24 ETS 305.16 ZAE 121.24 ETE 210.59 ZAC 122.86 ETC 193.06 CLP-157.61

PLANETOCENTRIC CONIC

C3 24.374 VHL 4.937 DLA 46.68 RAL 7.53 RAD 6568.0 VEL 12.073 PTH 2.16 VHP 6.681 OPA -29.54 RAP 43.15 ECC 1.4011
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.21 15 37 11 4308.34 -29.03 199.34 245.97 51.70 16 48 59 3708.3 -33.78 192.21
 128.79 23 31 25 2860.18 -29.02 86.50 245.96 51.69 24 19 5 2260.2 -33.77 79.37
 51.21 15 37 11 4308.34 -29.03 199.34 245.97 51.70 16 48 59 3708.3 -33.78 192.21
 128.79 23 31 25 2860.18 -29.02 86.50 245.96 51.69 24 19 5 2260.2 -33.77 79.37
 51.21 15 37 11 4308.34 -29.03 199.34 245.97 51.70 16 48 59 3708.3 -33.78 192.21
 128.79 23 31 25 2860.18 -29.02 86.50 245.96 51.69 24 19 5 2260.2 -33.77 79.37

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5525 TRA-1.6693 TC3-2.8839 BAU .9481 SGT 4396.2 SGR 682.4 SG3 192.9 ST 1992.7 SR 542.8 SS 694.6
 RDE .4656 RRA -.0998 RC3 -.3858 FAU .04984 RRT .8451 RRF .9372 RTF .9341 CRT .9406 CRS -.9957 CST -.9674
 FDE 1.0185 FRA -.4318 FC3-1.7701 BSP 13904 SGB 4448.8 R23 .2663 R13 .9370 LSA 2166.3 MSA 234.8 SSA 8.3
 BDE 1.6208 BRA 1.6723 BC3 2.9096 FSP -633 SG1 4434.1 SG2 361.7 THA 7.52 EL1 2057.6 EL2 178.5 ALF 14.48

LAUNCH DATE FEB 24 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 440.157

RL 148.06 LAL -.00 LOL 155.21 VL 27.208 GAL -3.65 AZL 84.11 MCA 212.56 SMA 126.11 ECC .18506 INC 5.8864 V1 30.092
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.302 GAP 7.10 AZP 94.97 TAL 196.48 TAP 49.04 RCA 102.77 APO 149.44 V2 34.891
 RC 147.857 GL 36.64 GP -37.65 ZAL 117.15 ZAP 137.38 ETS 306.02 ZAE 122.93 ETE 208.84 ZAC 125.28 ETC 192.56 CLP-158.36

PLANETOCENTRIC CONIC

C3 21.775 VHL 4.666 DLA 45.22 RAL 11.20 RAD 6567.9 VEL 11.965 PTH 2.13 VHP 6.538 OPA -25.70 RAP 43.41 ECC 1.3584
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.15 15 58 57 4262.64 -29.38 195.36 247.25 53.94 17 9 59 3662.6 -33.86 187.99
 126.85 23 38 56 2850.95 -29.36 85.93 247.24 53.93 24 26 27 2250.9 -33.85 78.56
 53.15 15 58 57 4262.64 -29.38 195.36 247.25 53.94 17 9 59 3662.6 -33.86 187.99
 126.85 23 38 56 2850.95 -29.36 85.93 247.24 53.93 24 26 27 2250.9 -33.85 78.56
 53.15 15 58 57 4262.64 -29.38 195.36 247.25 53.94 17 9 59 3662.6 -33.86 187.99
 126.85 23 38 56 2850.95 -29.36 85.93 247.24 53.93 24 26 27 2250.9 -33.85 78.56

DIFFERENTIAL CORRECTIONS

TOE 1.4969 TRA-1.5309 TC3-3.3304 BAU .9763
 RDE .4269 RRA -.0780 RC3 -.3940 FAU .05097
 FDE .9722 FRA -.3415 FC3-2.0263 BSP 14215
 BOE 1.5566 BRA 1.5329 BC3 3.3536 FSP -657

MID-COURSE EXECUTION ACCURACY

SGT 4489.9 SGR 654.6 SG3 199.9
 RRT .8402 RRF .9256 RTF .9297
 SGB 4537.3 R23 .2574 R13 .9322
 SG1 4523.6 SG2 352.3 THA 7.03

ORBIT DETERMINATION ACCURACY

ST 2006.9 SR 525.9 SS 682.6
 CRT .9448 CRS -.9972 CST -.9659
 LSA 2172.1 MSA 228.2 SSA 9.6
 EL1 2067.9 EL2 167.2 ALF 14.00

LAUNCH DATE FEB 24 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 446.000

RL 148.06 LAL -.00 LOL 155.21 VL 27.157 GAL -3.33 AZL 84.70 MCA 215.73 SMA 125.77 ECC .18622 INC 5.2987 V1 30.092
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.275 GAP 7.33 AZP 94.31 TAL 194.86 TAP 50.59 RCA 102.35 APO 149.20 V2 34.902
 RC 150.092 GL 34.29 GP -34.71 ZAL 116.40 ZAP 140.21 ETS 306.74 ZAE 124.29 ETE 207.13 ZAC 127.63 ETC 192.03 CLP-159.19

PLANETOCENTRIC CONIC

C3 19.747 VHL 4.444 DLA 43.97 RAL 14.88 RAD 6567.8 VEL 11.880 PTH 2.11 VHP 6.457 OPA -22.24 RAP 43.95 ECC 1.3250
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.84 16 20 9 4222.14 -29.58 191.82 248.86 55.85 17 30 31 3622.1 -33.83 184.26
 125.16 23 47 7 2844.62 -29.56 85.51 248.85 55.84 24 34 31 2244.6 -33.82 77.96
 54.84 16 20 9 4222.14 -29.58 191.82 248.86 55.85 17 30 31 3622.1 -33.83 184.26
 125.16 23 47 7 2844.62 -29.56 85.51 248.85 55.84 24 34 31 2244.6 -33.82 77.96
 54.84 16 20 9 4222.14 -29.58 191.82 248.86 55.85 17 30 31 3622.1 -33.83 184.26
 125.16 23 47 7 2844.62 -29.56 85.51 248.85 55.84 24 34 31 2244.6 -33.82 77.96

DIFFERENTIAL CORRECTIONS

TOE 1.4532 TRA-1.3921 TC3-3.7760 BAU 1.0023
 RDE .3960 RRA -.0590 RC3 -.3946 FAU .05132
 FDE .9209 FRA -.2486 FC3-2.2497 BSP 14513
 BOE 1.5062 BRA 1.3934 BC3 3.7966 FSP -672

MID-COURSE EXECUTION ACCURACY

SGT 4581.7 SGR 628.4 SG3 204.6
 RRT .8326 RRF .9104 RTF .9260
 SGB 4624.6 R23 .2437 R13 .9281
 SG1 4611.7 SG2 345.8 THA 6.55

ORBIT DETERMINATION ACCURACY

ST 2020.0 SR 511.7 SS 667.4
 CRT .9495 CRS -.9983 CST -.9644
 LSA 2176.8 MSA 221.2 SSA 11.1
 EL1 2077.9 EL2 156.0 ALF 13.60

LAUNCH DATE FEB 24 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 451.835

RL 148.06 LAL -.00 LOL 155.21 VL 27.106 GAL -3.01 AZL 85.21 MCA 218.90 SMA 125.45 ECC .18752 INC 4.7946 V1 30.092
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.249 GAP 7.56 AZP 93.74 TAL 193.23 TAP 52.13 RCA 101.92 APO 148.97 V2 34.914
 RC 152.312 GL 32.10 GP -32.13 ZAL 115.27 ZAP 142.76 ETS 307.32 ZAE 125.39 ETE 205.50 ZAC 129.92 ETC 191.49 CLP-160.07

PLANETOCENTRIC CONIC

C3 18.130 VHL 4.258 DLA 42.89 RAL 18.61 RAD 6567.7 VEL 11.812 PTH 2.09 VHP 6.422 OPA -19.10 RAP 44.73 ECC 1.2984
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.33 16 40 59 4186.04 -29.68 188.66 250.78 57.49 17 50 46 3586.0 -33.73 180.97
 123.67 23 56 1 2840.47 -29.67 85.22 250.77 57.48 24 43 21 2240.5 -33.72 77.53
 56.33 16 40 59 4186.04 -29.68 188.66 250.78 57.49 17 50 46 3586.0 -33.73 180.97
 123.67 23 56 1 2840.47 -29.67 85.22 250.77 57.48 24 43 21 2240.5 -33.72 77.53
 56.33 16 40 59 4186.04 -29.68 188.66 250.78 57.49 17 50 46 3586.0 -33.73 180.97
 123.67 23 56 1 2840.47 -29.67 85.22 250.77 57.48 24 43 21 2240.5 -33.72 77.53

DIFFERENTIAL CORRECTIONS

TOE 1.4185 TRA-1.2509 TC3-4.2175 BAU 1.0266
 RDE .3717 RRA -.0426 RC3 -.3900 FAU .05104
 FDE .8675 FRA -.1560 FC3-2.4374 BSP 14811
 BOE 1.4664 BRA 1.2517 BC3 4.2355 FSP -681

MID-COURSE EXECUTION ACCURACY

SGT 4671.3 SGR 605.5 SG3 207.2
 RRT .8228 RRF .8922 RTF .9230
 SGB 4710.4 R23 .2263 R13 .9248
 SG1 4697.9 SG2 342.2 THA 6.12

ORBIT DETERMINATION ACCURACY

ST 2032.2 SR 500.9 SS 650.4
 CRT .9550 CRS -.9991 CST -.9631
 LSA 2181.2 MSA 213.7 SSA 12.6
 EL1 2088.0 EL2 144.6 ALF 13.31

LAUNCH DATE FEB 24 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 457.661

RL 148.06 LAL -.00 LOL 155.21 VL 27.056 GAL -2.67 AZL 85.64 MCA 222.07 SMA 125.12 ECC .18897 INC 4.3550 V1 30.092
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.224 GAP 7.79 AZP 93.24 TAL 191.59 TAP 53.66 RCA 101.48 APO 148.77 V2 34.926
 RC 154.516 GL 30.02 GP -29.85 ZAL 113.81 ZAP 145.08 ETS 307.77 ZAE 126.28 ETE 203.99 ZAC 132.18 ETC 190.98 CLP-160.97

PLANETOCENTRIC CONIC

C3 16.822 VHL 4.101 DLA 41.94 RAL 22.42 RAD 6567.7 VEL 11.756 PTH 2.08 VHP 6.422 OPA -16.25 RAP 45.71 ECC 1.2768
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.66 17 1 42 4153.64 -29.71 185.83 253.01 58.92 18 10 56 3553.6 -33.59 178.03
 122.34 0 9 36 2838.15 -29.70 85.04 253.00 58.90 0 56 54 2238.2 -33.58 77.23
 57.66 17 1 42 4153.64 -29.71 185.83 253.01 58.92 18 10 56 3553.6 -33.59 178.03
 122.34 0 9 36 2838.15 -29.70 85.04 253.00 58.90 0 56 54 2238.2 -33.58 77.23
 57.66 17 1 42 4153.64 -29.71 185.83 253.01 58.92 18 10 56 3553.6 -33.59 178.03
 122.34 0 9 36 2838.15 -29.70 85.04 253.00 58.90 0 56 54 2238.2 -33.58 77.23

DIFFERENTIAL CORRECTIONS

TOE 1.3919 TRA-1.1038 TC3-4.6461 BAU 1.0484
 RDE .3532 RRA -.0278 RC3 -.3809 FAU .05019
 FDE .8153 FRA -.0633 FC3-2.5832 BSP 15051
 BOE 1.4360 BRA 1.1042 BC3 4.6617 FSP -681

MID-COURSE EXECUTION ACCURACY

SGT 4754.3 SGR 586.4 SG3 208.1
 RRT .8101 RRF .8711 RTF .9202
 SGB 4790.4 R23 .2077 R13 .9217
 SG1 4778.1 SG2 342.0 THA 5.74

ORBIT DETERMINATION ACCURACY

ST 2044.7 SR 493.8 SS 633.2
 CRT .9610 CRS -.9993 CST -.9617
 LSA 2187.0 MSA 206.1 SSA 14.3
 EL1 2099.3 EL2 132.9 ALF 13.12

LAUNCH DATE FEB 24 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 463.476

RL 148.06 LAL -.00 LOL 155.21 VL 27.005 GAL -2.32 AZL 86.03 MCA 225.25 SMA 124.80 ECC .19057 INC 3.9660 V1 30.092
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.199 GAP 8.03 AZP 92.79 TAL 189.93 TAP 55.18 RCA 101.02 APO 148.59 V2 34.938
 RC 156.704 GL 28.04 GP -27.85 ZAL 112.03 ZAP 147.18 ETS 308.09 ZAE 127.01 ETE 202.61 ZAC 134.43 ETC 190.48 CLP-161.89

PLANETOCENTRIC CONIC

C3 15.757 VHL 3.969 CLA 41.10 RAL 26.32 RAD 6567.6 VEL 11.711 PTH 2.06 VHP 6.449 DPA -13.64 RAP 46.85 ECC 1.2593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.87 17 22 29 4124.36 -29.68 183.27 255.54 60.16 18 31 13 3524.4 -33.41 175.38
 121.13 0 19 58 2837.58 -29.67 84.97 255.53 60.15 1 7 16 2237.6 -33.40 77.08
 58.87 17 22 29 4124.36 -29.68 183.27 255.54 60.16 18 31 13 3524.4 -33.41 175.38
 121.13 0 19 58 2837.58 -29.67 84.97 255.53 60.15 1 7 16 2237.6 -33.40 77.08
 58.87 17 22 29 4124.36 -29.68 183.27 255.54 60.16 18 31 13 3524.4 -33.41 175.38
 121.13 0 19 58 2837.58 -29.67 84.97 255.53 60.15 1 7 16 2237.6 -33.40 77.08

DIFFERENTIAL CORRECTIONS

TDE 1.3661 TRA -.9540 TC3-5.0675 BAU 1.0703
 RDE .3381 RRA -.0152 RC3 -.3714 FAU .04909
 FDE .7600 FRA .0242 FC3-2.6973 BSP 15335
 BDE 1.4073 BRA .9542 BC3 5.0811 FSP -680

MID-COURSE EXECUTION ACCURACY

SGT 4838.6 SGR 571.0 SG3 207.9
 RRT .7970 RRF .8482 RTF .9183
 SGB 4872.2 R23 .1865 R13 .9196
 SG1 4860.1 SG2 343.4 THA 5.40

ORBIT DETERMINATION ACCURACY

ST 2050.2 SR 488.2 SS 612.3
 CRT .9673 CRS -.9987 CST -.9601
 LSA 2185.7 MSA 197.6 SSA 16.1
 EL1 2104.1 EL2 120.6 ALF 13.02

LAUNCH DATE FEB 24 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 469.280

RL 148.06 LAL -.00 LOL 155.21 VL 26.955 GAL -1.96 AZL 86.38 MCA 228.43 SMA 124.48 ECC .19235 INC 3.6174 V1 30.092
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.174 GAP 8.27 AZP 92.40 TAL 188.27 TAP 56.69 RCA 100.54 APO 148.43 V2 34.951
 RC 158.875 GL 26.13 GP -26.07 ZAL 109.96 ZAP 149.10 ETS 308.28 ZAE 127.61 ETE 201.34 ZAC 136.66 ETC 190.01 CLP-162.80

PLANETOCENTRIC CONIC

C3 14.890 VHL 3.859 CLA 40.32 RAL 30.34 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 6.498 DPA -11.26 RAP 48.14 ECC 1.2450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.00 17 43 32 4097.62 -29.60 180.93 258.35 61.26 18 51 50 3497.6 -33.18 172.96
 120.00 0 30 59 2838.87 -29.58 85.03 258.35 61.24 1 18 18 2238.9 -33.17 77.06
 60.00 17 43 32 4097.62 -29.60 180.93 258.35 61.26 18 51 50 3497.6 -33.18 172.96
 120.00 0 30 59 2838.87 -29.58 85.03 258.35 61.24 1 18 18 2238.9 -33.17 77.06
 60.00 17 43 32 4097.62 -29.60 180.93 258.35 61.26 18 51 50 3497.6 -33.18 172.96
 120.00 0 30 59 2838.87 -29.58 85.03 258.35 61.24 1 18 18 2238.9 -33.17 77.06

DIFFERENTIAL CORRECTIONS

TDE 1.3419 TRA -.7982 TC3-5.4708 BAU 1.0914
 RDE .3265 RRA -.0036 RC3 -.3612 FAU .04773
 FDE .7052 FRA .1084 FC3-2.7753 BSP 15622
 BDE 1.3811 BRA .7982 BC3 5.4827 FSP -677

MID-COURSE EXECUTION ACCURACY

SGT 4920.7 SGR 559.3 SG3 206.8
 RRT .7826 RRF .8242 RTF .9171
 SGB 4952.3 R23 .1652 R13 .9182
 SG1 4940.2 SG2 346.8 THA 5.11

ORBIT DETERMINATION ACCURACY

ST 2050.3 SR 484.9 SS 590.0
 CRT .9737 CRS -.9969 CST -.9583
 LSA 2179.7 MSA 189.0 SSA 18.1
 EL1 2104.1 EL2 107.6 ALF 13.00

LAUNCH DATE FEB 24 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 475.072

RL 148.06 LAL -.00 LOL 155.21 VL 26.905 GAL -1.58 AZL 86.70 MCA 231.61 SMA 124.17 ECC .19430 INC 3.3013 V1 30.092
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.150 GAP 8.52 AZP 92.05 TAL 186.59 TAP 58.20 RCA 100.05 APO 148.30 V2 34.964
 RC 161.027 GL 24.27 GP -24.50 ZAL 107.61 ZAP 150.86 ETS 308.34 ZAE 128.11 ETE 200.19 ZAC 138.90 ETC 189.57 CLP-163.70

PLANETOCENTRIC CONIC

C3 14.193 VHL 3.767 CLA 39.59 RAL 34.48 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 6.565 DPA -9.07 RAP 49.56 ECC 1.2336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.09 18 5 3 4072.86 -29.44 178.74 261.46 62.24 19 12 56 3472.9 -32.90 170.72
 118.91 0 42 30 2842.34 -29.43 85.22 261.45 62.23 1 29 52 2242.3 -32.89 77.21
 61.09 18 5 3 4072.86 -29.44 178.74 261.46 62.24 19 12 56 3472.9 -32.90 170.72
 118.91 0 42 30 2842.34 -29.43 85.22 261.45 62.23 1 29 52 2242.3 -32.89 77.21
 61.09 18 5 3 4072.86 -29.44 178.74 261.46 62.24 19 12 56 3472.9 -32.90 170.72
 118.91 0 42 30 2842.34 -29.43 85.22 261.45 62.23 1 29 52 2242.3 -32.89 77.21

DIFFERENTIAL CORRECTIONS

TDE 1.3159 TRA -.6358 TC3-5.8464 BAU 1.1113
 RDE .3173 RRA .0073 RC3 -.3504 FAU .04616
 FDE .6497 FRA .1886 FC3-2.8154 BSP 15906
 BDE 1.3536 BRA .6359 BC3 5.8568 FSP -671

MID-COURSE EXECUTION ACCURACY

SGT 4998.4 SGR 550.3 SG3 204.7
 RRT .7673 RRF .7993 RTF .9165
 SGB 5028.6 R23 .1444 R13 .9173
 SG1 5016.3 SG2 351.6 THA 4.85

ORBIT DETERMINATION ACCURACY

ST 2040.6 SR 482.7 SS 565.1
 CRT .9799 CRS -.9935 CST -.9560
 LSA 2164.2 MSA 180.2 SSA 20.3
 EL1 2094.8 EL2 93.7 ALF 13.08

LAUNCH DATE FEB 24 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 480.851

RL 148.06 LAL -.00 LOL 155.21 VL 26.856 GAL -1.20 AZL 86.99 MCA 234.80 SMA 123.86 ECC .19644 INC 3.0117 V1 30.092
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.126 GAP 8.77 AZP 91.74 TAL 184.91 TAP 59.70 RCA 99.53 APO 148.20 V2 34.977
 RC 163.161 GL 22.45 GP -23.10 ZAL 105.03 ZAP 152.48 ETS 308.27 ZAE 128.53 ETE 199.15 ZAC 141.14 ETC 189.14 CLP-164.60

PLANETOCENTRIC CONIC

C3 13.646 VHL 3.694 CLA 38.87 RAL 38.74 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 6.648 DPA -7.04 RAP 51.09 ECC 1.2246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.18 18 27 13 4049.51 -29.22 176.65 264.82 63.13 19 34 42 3449.5 -32.56 168.59
 117.82 0 54 20 2848.45 -29.20 85.60 264.82 63.12 1 41 48 2248.4 -32.55 77.55
 62.18 18 27 13 4049.51 -29.22 176.65 264.82 63.13 19 34 42 3449.5 -32.56 168.59
 117.82 0 54 20 2848.45 -29.20 85.60 264.82 63.12 1 41 48 2248.4 -32.55 77.55
 62.18 18 27 13 4049.51 -29.22 176.65 264.82 63.13 19 34 42 3449.5 -32.56 168.59
 117.82 0 54 20 2848.45 -29.20 85.60 264.82 63.12 1 41 48 2248.4 -32.55 77.55

DIFFERENTIAL CORRECTIONS

TDE 1.2895 TRA -.4625 TC3-6.7779 BAU 1.1288
 RDE .3107 RRA .0186 RC3 -.3383 FAU .04435
 FDE .5962 FRA .2680 FC3-2.8135 BSP 16090
 BDE 1.3264 BRA .4628 BC3 6.1872 FSP -658

MID-COURSE EXECUTION ACCURACY

SGT 5067.8 SGR 544.1 SG3 201.9
 RRT .7509 RRF .7746 RTF .9158
 SGB 5096.9 R23 .1264 R13 .9165
 SG1 5084.3 SG2 358.2 THA 4.63

ORBIT DETERMINATION ACCURACY

ST 2023.7 SR 482.0 SS 540.2
 CRT .9858 CRS -.9877 CST -.9529
 LSA 2142.3 MSA 172.1 SSA 22.6
 EL1 2078.9 EL2 78.7 ALF 13.23

LAUNCH DATE FEB 24 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 486.615

RL 148.06 LAL -.00 LOL 155.21 VL 26.807 GAL -.80 AZL 87.26 HCA 237.99 SMA 123.56 ECC .19878 INC 2.7438 V1 30.092
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.103 GAP 9.03 AZP 91.46 TAL 183.21 TAP 61.20 RCA 99.00 APO 148.12 V2 34.990
 RC 165.276 GL 20.65 GP -21.85 ZAL 102.21 ZAP 153.97 ETS 308.05 ZAE 128.88 ETE 198.21 ZAC 143.38 ETC 188.73 CLP-165.49

PLANETOCENTRIC CONIC

C3 13.238 VHL 3.638 DLA 38.13 RAL 43.12 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 6.744 DPA -5.17 RAP 52.71 ECC 1.2179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.31 18 50 12 4026.95 -28.90 174.60 268.44 63.96 19 57 19 3427.0 -32.15 166.53
 116.69 1 6 14 2857.80 -28.89 86.20 268.44 63.95 1 53 52 2257.8 -32.14 78.13
 63.31 18 50 12 4026.95 -28.90 174.60 268.44 63.96 19 57 19 3427.0 -32.15 166.53
 116.69 1 6 14 2857.80 -28.89 86.20 268.44 63.95 1 53 52 2257.8 -32.14 78.13
 63.31 18 50 12 4026.95 -28.90 174.60 268.44 63.96 19 57 19 3427.0 -32.15 166.53
 116.69 1 6 14 2857.80 -28.89 86.20 268.44 63.95 1 53 52 2257.8 -32.14 78.13

DIFFERENTIAL CORRECTIONS

TDE 1.2555 TRA -.2839 TC3-6.4711 BAU 1.1467
 RDE .3054 RRA .0293 RC3 -.3274 FAU .04254
 FDE .5411 FRA .3415 FC3-2.7822 BSP 16320
 BOE 1.2921 BRA .2854 BC3 6.4793 FSP -645

MID-COURSE EXECUTION ACCURACY

SGT 5138.6 SGR 539.9 SG3 198.8
 RRT .7350 RRF .7506 RTF .9161
 SGB 5166.9 R23 .1088 R13 .9167
 SG1 5154.0 SG2 365.0 THA 4.44

ORBIT DETERMINATION ACCURACY

ST 1989.4 SR 481.3 SS 511.9
 CRT .9909 CRS -.9787 CST -.9488
 LSA 2103.3 MSA 164.6 SSA 25.2
 EL1 2045.9 EL2 62.9 ALF 13.49

LAUNCH DATE FEB 24 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 492.365

RL 148.06 LAL -.00 LOL 155.21 VL 26.758 GAL -.38 AZL 87.51 HCA 241.18 SMA 123.26 ECC .20133 INC 2.4938 V1 30.092
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.081 GAP 9.30 AZP 91.20 TAL 181.52 TAP 62.69 RCA 98.44 APO 148.08 V2 35.003
 RC 167.370 GL 18.87 GP -20.73 ZAL 99.20 ZAP 155.36 ETS 307.69 ZAE 129.19 ETE 197.37 ZAC 145.64 ETC 188.33 CLP-166.37

PLANETOCENTRIC CONIC

C3 12.962 VHL 3.600 DLA 37.37 RAL 47.58 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 6.854 DPA -3.44 RAP 54.42 ECC 1.2133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.53 19 14 9 4004.52 -28.49 172.54 272.30 64.73 20 20 54 3404.5 -31.64 164.46
 115.47 1 17 55 2871.13 -28.48 87.07 272.29 64.72 2 5 46 2271.1 -31.63 78.98
 64.53 19 14 9 4004.52 -28.49 172.54 272.30 64.73 20 20 54 3404.5 -31.64 164.46
 115.47 1 17 55 2871.13 -28.48 87.07 272.29 64.72 2 5 46 2271.1 -31.63 78.98
 64.53 19 14 9 4004.52 -28.49 172.54 272.30 64.73 20 20 54 3404.5 -31.64 164.46
 115.47 1 17 55 2871.13 -28.48 87.07 272.29 64.72 2 5 46 2271.1 -31.63 78.98

DIFFERENTIAL CORRECTIONS

TDE 1.2114 TRA -.0987 TC3-6.7130 BAU 1.1646
 RDE .3010 RRA .0401 RC3 -.3174 FAU .04075
 FDE .4833 FRA .4102 FC3-2.7218 BSP 16575
 BOE 1.2483 BRA .1065 BC3 6.7205 FSP -635

MID-COURSE EXECUTION ACCURACY

SGT 5207.8 SGR 536.8 SG3 195.3
 RRT .7199 RRF .7273 RTF .9171
 SGB 5235.4 R23 .0917 R13 .9176
 SG1 5222.2 SG2 371.6 THA 4.27

ORBIT DETERMINATION ACCURACY

ST 1934.3 SR 479.7 SS 479.5
 CRT .9949 CRS -.9648 CST -.9428
 LSA 2043.4 MSA 158.4 SSA 27.9
 EL1 1992.3 EL2 47.0 ALF 13.87

LAUNCH DATE FEB 24 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 498.096

RL 148.06 LAL -.00 LOL 155.21 VL 26.709 GAL .05 AZL 87.74 HCA 244.37 SMA 122.96 ECC .20411 INC 2.2584 V1 30.092
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.058 GAP 9.58 AZP 90.98 TAL 179.81 TAP 64.19 RCA 97.87 APO 148.06 V2 35.016
 RC 169.445 GL 17.10 GP -19.72 ZAL 96.01 ZAP 156.65 ETS 307.18 ZAE 129.46 ETE 196.60 ZAC 147.91 ETC 187.93 CLP-167.24

PLANETOCENTRIC CONIC

C3 12.815 VHL 3.580 DLA 36.54 RAL 52.12 RAD 6567.5 VEL 11.585 PTH 2.03 VHP 6.975 DPA -1.82 RAP 56.21 ECC 1.2109
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.87 19 39 15 3981.46 -27.98 170.40 276.35 65.47 20 45 37 3381.5 -31.04 162.32
 114.13 1 29 0 2889.31 -27.97 88.27 276.34 65.45 2 17 10 2289.3 -31.03 80.19
 65.87 19 39 15 3981.46 -27.98 170.40 276.35 65.47 20 45 37 3381.5 -31.04 162.32
 114.13 1 29 0 2889.31 -27.97 88.27 276.34 65.45 2 17 10 2289.3 -31.03 80.19
 65.87 19 39 15 3981.46 -27.98 170.40 276.35 65.47 20 45 37 3381.5 -31.04 162.32
 114.13 1 29 0 2889.31 -27.97 88.27 276.34 65.45 2 17 10 2289.3 -31.03 80.19

DIFFERENTIAL CORRECTIONS

TDE 1.1609 TRA .0974 TC3-6.8623 BAU 1.1768
 RDE .2993 RRA .0522 RC3 -.2973 FAU .03820
 FDE .4326 FRA .4808 FC3-2.5804 BSP 16438
 BOE 1.1989 BRA .1105 BC3 6.8687 FSP -582

MID-COURSE EXECUTION ACCURACY

SGT 5256.4 SGR 534.4 SG3 189.5
 RRT .6963 RRF .7034 RTF .9151
 SGB 5283.5 R23 .0875 R13 .9156
 SG1 5269.6 SG2 382.6 THA 4.07

ORBIT DETERMINATION ACCURACY

ST 1864.8 SR 480.1 SS 453.0
 CRT .9973 CRS -.9449 CST -.9355
 LSA 1971.8 MSA 156.2 SS 30.6
 EL1 1925.3 EL2 34.3 ALF 14.40

LAUNCH DATE FEB 24 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 503.811

RL 148.06 LAL -.00 LOL 155.21 VL 26.661 GAL .49 AZL 87.96 HCA 247.57 SMA 122.67 ECC .20713 INC 2.0352 V1 30.092
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.036 GAP 9.87 AZP 90.78 TAL 178.11 TAP 65.68 RCA 97.26 APO 148.08 V2 35.030
 RC 171.498 GL 15.35 GP -18.82 ZAL 92.68 ZAP 157.85 ETS 306.52 ZAE 129.69 ETE 195.91 ZAC 150.19 ETC 187.51 CLP-168.10

PLANETOCENTRIC CONIC

C3 12.799 VHL 3.578 DLA 35.66 RAL 56.69 RAD 6567.5 VEL 11.584 PTH 2.03 VHP 7.108 DPA -.32 RAP 58.08 ECC 1.2106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.36 20 5 39 3956.94 -27.35 168.12 280.58 66.17 21 11 36 3356.9 -30.32 160.05
 112.64 1 39 6 2913.29 -27.34 89.87 280.58 66.16 2 27 39 2313.3 -30.31 81.80
 67.36 20 5 39 3956.94 -27.35 168.12 280.58 66.17 21 11 36 3356.9 -30.32 160.05
 112.64 1 39 6 2913.29 -27.34 89.87 280.58 66.16 2 27 39 2313.3 -30.31 81.80
 67.36 20 5 39 3956.94 -27.35 168.12 280.58 66.17 21 11 36 3356.9 -30.32 160.05
 112.64 1 39 6 2913.29 -27.34 89.87 280.58 66.16 2 27 39 2313.3 -30.31 81.80

DIFFERENTIAL CORRECTIONS

TDE 1.1019 TRA .3062 TC3-6.9742 BAU 1.1945
 RDE .2969 RRA .0639 RC3 -.2929 FAU .03681
 FDE .3741 FRA .5441 FC3-2.4901 BSP 17005
 BOE 1.1412 BRA .3128 BC3 6.9803 FSP -609

MID-COURSE EXECUTION ACCURACY

SGT 5327.4 SGR 534.7 SG3 187.0
 RRT .6884 RRF .6857 RTF .9190
 SGB 5354.1 R23 .0684 R13 .9194
 SG1 5340.1 SG2 386.9 THA 3.97

ORBIT DETERMINATION ACCURACY

ST 1780.3 SR 477.0 SS 418.9
 CRT .9972 CRS -.9139 CST -.9252
 LSA 1883.3 MSA 156.6 SSA 32.5
 EL1 1842.7 EL2 34.3 ALF 14.97

LAUNCH DATE FEB 24 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 509.505

RL 148.06 LAL -.00 LOL 155.21 VL 26.614 GAL .96 AZL 88.18 MCA 250.77 SMA 122.39 ECC .21042 INC 1.8218 V1 30.092
 -RP 108.14 LAP -1.72 LOP 45.98 VP 37.015 GAP 10.17 AZP 90.60 TAL 176.40 TAP 67.17 RCA 96.64 APO 148.14 V2 35.043
 RC 173.532 GL 13.61 GP -18.00 ZAL 89.23 ZAP 158.97 ETS 305.69 ZAE 129.90 ETE 195.29 ZAC 152.47 ETC 187.08 CLP-168.95

PLANETOCENTRIC CONIC

C3 12.918 VHL 3.594 DLA 34.69 RAL 61.27 RAD 6567.5 VEL 11.589 PTH 2.03 VHP 7.252 DPA 1.08 RAP 60.01 ECC 1.2126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.06 20 33 34 3929.79 -26.60 165.60 284.96 66.85 21 39 4 3329.8 -29.49 157.57
 110.94 1 47 40 2944.41 -26.59 91.96 284.95 66.84 2 36 45 2344.4 -29.48 83.93
 69.06 20 33 34 3929.79 -26.60 165.60 284.96 66.85 21 39 4 3329.8 -29.49 157.57
 110.94 1 47 40 2944.41 -26.59 91.96 284.95 66.84 2 36 45 2344.4 -29.48 83.93
 69.06 20 33 34 3929.79 -26.60 165.60 284.96 66.85 21 39 4 3329.8 -29.49 157.57
 110.94 1 47 40 2944.41 -26.59 91.96 284.95 66.84 2 36 45 2344.4 -29.48 83.93

DIFFERENTIAL CORRECTIONS

TDE 1.0277 TRA .5211 TC3-6.9919 BAU 1.2085
 RDE .2954 RRA .0763 RC3 -.2803 FAU .03489
 FDE .3160 FRA .6047 FC3-2.3383 BSP 17217
 BDE 1.0693 BRA .5266 BC3 6.9975 FSP -597

MID-COURSE EXECUTION ACCURACY

SGT 5382.0 SGR 533.2 SG3 182.3
 RRT .6739 RRF .6660 RTF .9207
 SGB 5408.3 R23 .0571 R13 .9210
 SG1 5394.0 SG2 393.1 THA 3.84

ORBIT DETERMINATION ACCURACY

ST 1672.9 SR 473.1 SS 386.3
 CRT .9931 CRS -.8681 CST -.9110
 LSA 1773.0 MSA 163.8 SSA 33.5
 EL1 1737.7 EL2 53.6 ALF 15.70

LAUNCH DATE FEB 24 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 515.176

RL 148.06 LAL -.00 LOL 155.21 VL 26.567 GAL 1.44 AZL 88.38 MCA 253.98 SMA 122.11 ECC .21399 INC 1.6166 V1 30.092
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.994 GAP 10.48 AZP 90.45 TAL 174.69 TAP 68.67 RCA 95.98 APO 148.24 V2 35.056
 RC 173.544 GL 11.91 GP -17.26 ZAL 85.72 ZAP 160.02 ETS 304.69 ZAE 130.09 ETE 194.72 ZAC 154.77 ETC 186.61 CLP-169.78

PLANETOCENTRIC CONIC

C3 13.178 VHL 3.630 DLA 33.66 RAL 65.80 RAD 6567.5 VEL 11.600 PTH 2.03 VHP 7.408 DPA 2.39 RAP 61.99 ECC 1.2169
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.00 21 3 19 3898.57 -25.73 162.76 289.44 67.52 22 8 18 3298.6 -28.55 154.76
 109.00 1 54 6 2984.24 -25.72 94.67 289.43 67.51 2 43 50 2384.2 -28.54 86.67
 71.00 21 3 19 3898.57 -25.73 162.76 289.44 67.52 22 8 18 3298.6 -28.55 154.76
 109.00 1 54 6 2984.24 -25.72 94.67 289.43 67.51 2 43 50 2384.2 -28.54 86.67
 110.00 2 45 42 2826.43 -29.44 83.95 290.99 71.79 3 32 48 2226.4 -31.64 75.43
 110.00 1 14 50 3104.38 -22.13 102.21 287.63 63.26 2 6 34 2504.4 -25.53 94.71

DIFFERENTIAL CORRECTIONS

TDE .9424 TRA .7469 TC3-6.9287 BAU 1.2216
 RDE .2949 RRA .0894 RC3 -.2673 FAU .03302
 FDE .2592 FRA .6635 FC3-2.1689 BSP 17404
 BDE .9874 BRA .7522 BC3 6.9339 FSP -583

MID-COURSE EXECUTION ACCURACY

SGT 5433.6 SGR 532.1 SG3 177.7
 RRT .6603 RRF .6483 RTF .9228
 SGB 5459.6 R23 .0476 R13 .9230
 SG1 5445.0 SG2 398.8 THA 3.72

ORBIT DETERMINATION ACCURACY

ST 1554.2 SR 468.3 SS 357.6
 CRT .9822 CRS -.8025 CST -.8938
 LSA 1652.1 MSA 179.3 SSA 33.2
 EL1 1621.0 EL2 84.4 ALF 16.53

LAUNCH DATE FEB 24 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 520.821

RL 148.06 LAL -.00 LOL 155.21 VL 26.520 GAL 1.94 AZL 88.58 MCA 257.18 SMA 121.83 ECC .21786 INC 1.4176 V1 30.092
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.973 GAP 10.80 AZP 90.31 TAL 172.99 TAP 70.17 RCA 95.29 APO 148.37 V2 35.069
 RC 177.535 GL 10.25 GP -16.59 ZAL 82.16 ZAP 161.00 ETS 303.51 ZAE 130.26 ETE 194.21 ZAC 157.08 ETC 186.09 CLP-170.61

PLANETOCENTRIC CONIC

C3 13.590 VHL 3.686 DLA 32.54 RAL 70.26 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 7.576 DPA 3.60 RAP 64.04 ECC 1.2237
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.25 21 35 21 3861.27 -24.76 159.45 294.00 68.17 22 39 43 3261.3 -27.50 151.49
 106.75 1 57 37 3034.90 -24.75 98.13 294.00 68.16 2 48 12 2434.9 -27.49 90.18
 73.25 21 35 21 3861.27 -24.76 159.45 294.00 68.17 22 39 43 3261.3 -27.50 151.49
 106.75 1 57 37 3034.90 -24.75 98.13 294.00 68.16 2 48 12 2434.9 -27.49 90.18
 110.00 3 37 53 2725.74 -31.36 76.74 296.44 75.65 4 23 19 2125.7 -33.02 67.90
 110.00 0 58 12 3218.43 -18.48 109.04 290.77 60.72 1 51 50 2618.4 -22.23 101.92

DIFFERENTIAL CORRECTIONS

TDE .8440 TRA .9831 TC3-6.7876 BAU 1.2341
 RDE .2950 RRA .1033 RC3 -.2536 FAU .03119
 FDE .2024 FRA .7202 FC3-1.9871 BSP 17616
 BDE .8941 BRA .9885 BC3 6.7923 FSP -572

MID-COURSE EXECUTION ACCURACY

SGT 5481.8 SGR 530.5 SG3 173.0
 RRT .6473 RRF .6318 RTF .9249
 SGB 5507.4 R23 .0391 R13 .9251
 SG1 5492.6 SG2 403.5 THA 3.60

ORBIT DETERMINATION ACCURACY

ST 1428.0 SR 462.0 SS 333.5
 CRT .9599 CRS -.7103 CST -.8740
 LSA 1523.5 MSA 204.6 SSA 31.7
 EL1 1495.8 EL2 123.7 ALF 17.38

LAUNCH DATE FEB 24 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 526.438

RL 148.06 LAL -.00 LOL 155.21 VL 26.474 GAL 2.47 AZL 88.78 MCA 260.39 SMA 121.56 ECC .22207 INC 1.2235 V1 30.092
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.952 GAP 11.15 AZP 90.20 TAL 171.28 TAP 71.67 RCA 94.56 APO 148.55 V2 35.083
 RC 179.506 GL 8.63 GP -15.98 ZAL 78.60 ZAP 161.92 ETS 302.13 ZAE 130.41 ETE 193.75 ZAC 159.40 ETC 185.50 CLP-171.44

PLANETOCENTRIC CONIC

C3 14.165 VHL 3.764 DLA 31.37 RAL 74.60 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 7.757 DPA 4.73 RAP 66.13 ECC 1.2331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.91 22 10 40 3814.18 -23.68 155.40 298.61 68.81 23 14 14 3214.2 -26.35 147.49
 104.09 1 56 58 3100.17 -23.67 102.63 298.60 68.79 2 48 39 2500.2 -26.34 94.73
 75.91 22 10 40 3814.18 -23.68 155.40 298.61 68.81 23 14 14 3214.2 -26.35 147.49
 104.09 1 56 58 3100.17 -23.67 102.63 298.60 68.79 2 48 39 2500.2 -26.34 94.73
 110.00 4 19 42 2656.43 -32.42 71.61 301.51 78.52 5 3 58 2056.4 -33.66 62.60
 110.00 0 51 3 3305.91 -15.49 114.06 294.37 59.14 1 46 8 2705.9 -19.47 107.20

DIFFERENTIAL CORRECTIONS

TDE .7378 TRA 1.2348 TC3-6.5596 BAU 1.2430
 RDE .2961 RRA .1182 RC3 -.2375 FAU .02927
 FDE .1486 FRA .7775 FC3-1.7891 BSP 17718
 BDE .7950 BRA 1.2405 BC3 6.5639 FSP -555

MID-COURSE EXECUTION ACCURACY

SGT 5521.7 SGR 528.7 SG3 168.1
 RRT .6346 RRF .6170 RTF .9266
 SGB 5546.9 R23 .0333 R13 .9267
 SG1 5531.9 SG2 407.9 THA 3.50

ORBIT DETERMINATION ACCURACY

ST 1311.4 SR 455.2 SS 318.4
 CRT .9194 CRS -.5940 CST -.8582
 LSA 1403.6 MSA 239.4 SSA 29.5
 EL1 1377.7 EL2 170.4 ALF 17.99

LAUNCH DATE FEB 24 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 532.023

RL 148.06 LAL -0.00 LOL 155.21 VL 26.429 GAL 3.02 AZL 88.97 MCA 263.60 SMA 121.29 ECC .22664 INC 1.0329 V1 30.092
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.932 GAP 11.51 AZP 90.12 TAL 169.58 TAP 73.19 RCA 93.80 APO 148.78 V2 35.095
 RC 181.455 GL 7.08 GP -15.43 ZAL 75.08 ZAP 162.78 ETS 300.55 ZAE 130.55 ETE 193.32 ZAC 161.73 ETC 184.78 CLP-172.26

PLANETOCENTRIC CONIC

C3 14.920 VHL 3.863 DLA 30.14 RAL 78.80 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 7.951 DPA 5.78 RAP 68.27 ECC 1.2455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.22 22 51 24 3749.73 -22.52 150.09 303.24 69.42 23 53 54 3149.7 -25.12 142.23
 100.78 1 49 43 3187.66 -22.51 108.71 303.23 69.41 2 42 51 2587.7 -25.11 100.86
 79.22 22 51 24 3749.73 -22.52 150.09 303.24 69.42 23 53 54 3149.7 -25.12 142.23
 100.78 1 49 43 3187.66 -22.51 108.71 303.23 69.41 2 42 51 2587.7 -25.11 100.86
 110.00 4 56 46 2601.14 -33.09 67.44 306.40 80.90 5 40 7 2001.1 -34.00 58.31
 110.00 0 47 27 3384.25 -12.71 118.43 298.16 58.00 1 43 51 2784.2 -16.84 111.76

DIFFERENTIAL CORRECTIONS

TDE .6177 TRA 1.4953 TC3-6.2757 BAU 1.2525
 RDE .2977 RRA .1334 RC3 -.2215 FAU .02749
 FDE .0947 FRA .8315 FC3-1.5949 BSP 17894
 BOE .6857 BRA 1.5012 BC3 6.2796 FSP -543

MID-COURSE EXECUTION ACCURACY

SGT 5560.7 SGR 526.0 SG3 163.3
 RRT .6226 RRF .6028 RTF .9287
 SGB 5585.5 R23 .0274 R13 .9288
 SG1 5570.4 SG2 410.9 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1205.3 SR 446.9 SS 310.4
 CRT .8506 CRS -.4537 CST -.8508
 LSA 1291.7 MSA 282.2 SSA 27.1
 EL1 1265.9 EL2 223.7 ALF 18.09

LAUNCH DATE FEB 24 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 537.572

RL 148.06 LAL -0.00 LOL 155.21 VL 26.384 GAL 3.59 AZL 89.16 MCA 266.81 SMA 121.03 ECC .23160 INC .8446 V1 30.092
 RP 107.94 LAP -.84 LOP 62.03 VP 36.911 GAP 11.89 AZP 90.05 TAL 167.89 TAP 74.71 RCA 93.00 APO 149.06 V2 35.108
 RC 183.384 GL 5.59 GP -14.92 ZAL 71.61 ZAP 163.58 ETS 298.75 ZAE 130.68 ETE 192.94 ZAC 164.05 ETC 183.90 CLP-173.07

PLANETOCENTRIC CONIC

C3 15.873 VHL 3.984 DLA 28.88 RAL 82.83 RAD 6567.6 VEL 11.716 PTH 2.06 VHP 8.159 DPA 6.75 RAP 70.45 ECC 1.2612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.09 23 45 37 3641.33 -21.30 141.58 307.87 70.03 24 46 18 3041.3 -23.83 133.77
 95.91 1 27 38 3323.94 -21.29 118.31 307.86 70.01 2 23 2 2723.9 -23.82 110.51
 100.00 3 5 16 3010.24 -26.38 96.87 309.59 75.40 3 55 27 2410.2 -28.12 88.51
 100.00 0 54 35 3430.27 -16.38 123.98 305.70 64.64 1 51 45 2830.3 -19.66 116.73
 110.00 5 30 36 2555.21 -33.53 63.92 311.17 82.94 6 13 11 1955.2 -34.15 59.74
 110.00 0 45 45 3458.06 -10.01 122.45 302.06 57.14 1 43 23 2858.1 -14.27 115.93

DIFFERENTIAL CORRECTIONS

TDE .4875 TRA 1.7687 TC3-5.9364 BAU 1.2605
 RDE .3000 RRA .1493 RC3 -.2046 FAU .02573
 FDE .0425 FRA .8847 FC3-1.4036 BSP 18053
 BOE .5724 BRA 1.7750 BC3 5.9399 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 5595.0 SGR 522.3 SG3 158.5
 RRT .6111 RRF .5896 RTF .9308
 SGB 5619.4 R23 .0223 R13 .9309
 SG1 5604.2 SG2 412.7 THA 3.28

ORBIT DETERMINATION ACCURACY

ST 1127.4 SR 437.6 SS 311.2
 CRT .7443 CRS -.3031 CST -.8588
 LSA 1204.5 MSA 328.7 SSA 24.8
 EL1 1176.5 EL2 280.1 ALF 17.11

LAUNCH DATE FEB 24 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 543.080

RL 148.06 LAL -0.00 LOL 155.21 VL 26.339 GAL 4.20 AZL 89.34 MCA 270.03 SMA 120.77 ECC .23699 INC .6572 V1 30.092
 RP 107.90 LAP -.66 LOP 65.24 VP 36.891 GAP 12.29 AZP 90.00 TAL 166.21 TAP 76.24 RCA 92.15 APO 149.39 V2 35.120
 RC 185.291 GL 4.19 GP -14.46 ZAL 68.24 ZAP 164.32 ETS 296.72 ZAE 130.79 ETE 192.58 ZAC 166.38 ETC 182.74 CLP-173.88

PLANETOCENTRIC CONIC

C3 17.047 VHL 4.129 DLA 27.59 RAL 86.66 RAD 6567.7 VEL 11.766 PTH 2.08 VHP 8.383 DPA 7.64 RAP 72.67 ECC 1.2806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 0 3316.24 -24.28 118.77 313.90 74.96 2 45 16 2716.2 -26.11 110.58
 90.00 23 53 51 3681.69 -15.87 142.23 310.75 66.24 24 55 12 3081.7 -18.95 134.91
 100.00 3 53 22 2918.55 -27.79 90.43 314.82 78.51 4 42 1 2318.6 -29.09 81.87
 100.00 0 37 6 3554.61 -12.62 131.30 309.14 62.67 1 36 20 2954.6 -16.18 124.32
 110.00 6 1 47 2516.69 -33.82 60.95 315.86 84.67 6 43 43 1916.7 -34.18 51.73
 110.00 0 45 10 3529.24 -7.36 126.25 306.01 56.52 1 43 59 2929.2 -11.71 119.86

DIFFERENTIAL CORRECTIONS

TDE .3521 TRA 2.0601 TC3-5.5454 BAU 1.2646
 RDE .3034 RRA .1660 RC3 -.1865 FAU .02395
 FDE -.0060 FRA .9389 FC3-1.2161 BSP 18100
 BOE .4648 BRA 2.0667 BC3 5.5485 FSP -513

MID-COURSE EXECUTION ACCURACY

SGT 5622.5 SGR 518.2 SG3 153.8
 RRT .6005 RRF .5780 RTF .9327
 SGB 5646.3 R23 .0186 R13 .9328
 SG1 5631.2 SG2 413.7 THA 3.18

ORBIT DETERMINATION ACCURACY

ST 1092.7 SR 428.2 SS 320.3
 CRT .6023 CRS -.1637 CST -.8834
 LSA 1158.7 MSA 370.1 SSA 22.7
 EL1 1125.8 EL2 331.8 ALF 14.57

LAUNCH DATE FEB 24 1969

FLIGHT TIME 188.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 548.540

RL 148.06 LAL -0.00 LOL 155.21 VL 26.295 GAL 4.83 AZL 89.53 MCA 273.25 SMA 120.51 ECC .24286 INC .4697 V1 30.092
 RP 107.87 LAP -.47 LOP 68.46 VP 36.871 GAP 12.72 AZP 89.97 TAL 164.54 TAP 77.79 RCA 91.25 APO 149.78 V2 35.132
 RC 187.175 GL 2.87 GP -14.04 ZAL 64.98 ZAP 165.01 ETS 294.44 ZAE 130.89 ETE 192.26 ZAC 168.71 ETC 181.14 CLP-174.70

PLANETOCENTRIC CONIC

C3 18.472 VHL 4.298 DLA 26.31 RAL 90.29 RAD 6567.7 VEL 11.826 PTH 2.09 VHP 8.625 DPA 8.47 RAP 74.92 ECC 1.3040
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 49 3210.97 -25.94 111.51 319.19 78.23 3 35 20 2611.0 -27.30 103.11
 90.00 23 31 1 3824.26 -11.78 150.70 314.09 64.06 24 34 45 3224.3 -15.18 143.67
 100.00 4 32 5 2855.51 -28.56 85.90 319.73 80.77 5 19 40 2255.5 -29.54 77.23
 100.00 0 27 22 3654.97 -9.41 137.03 312.86 61.50 1 28 17 3055.0 -13.15 130.23
 110.00 6 30 37 2484.59 -33.99 58.46 320.46 86.14 7 12 2 1884.6 -34.15 49.22
 110.00 0 45 18 3598.64 -4.74 129.92 310.00 56.11 1 45 17 2998.6 -9.16 123.61

DIFFERENTIAL CORRECTIONS

TDE .2037 TRA 2.3613 TC3-5.1364 BAU 1.2691
 RDE .3072 RRA .1828 RC3 -.1690 FAU .02229
 FDE -.0544 FRA .9909 FC3-1.0446 BSP 18253
 BOE .3686 BRA 2.3684 BC3 5.1392 FSP -501

MID-COURSE EXECUTION ACCURACY

SGT 5647.9 SGR 512.5 SG3 149.2
 RRT .5897 RRF .5662 RTF .9349
 SGB 5671.1 R23 .0148 R13 .9349
 SG1 5656.0 SG2 413.3 THA 3.08

ORBIT DETERMINATION ACCURACY

ST 1096.0 SR 417.6 SS 334.4
 CRT .4320 CRS -.0344 CST -.9140
 LSA 1152.3 MSA 398.9 SSA 20.9
 EL1 1112.6 EL2 371.0 ALF 10.53

LAUNCH DATE FEB 24 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 553.945

RL 148.06 LAL -.00 LOL 155.21 VL 26.252 GAL 5.50 AZL 89.72 HCA 276.47 SMA 120.26 ECC .24924 INC .2809 V1 30.092
 RP 107.83 LAP -.28 LOP 71.68 VP 36.852 GAP 13.18 AZP 89.97 TAL 162.89 TAP 79.36 RCA 90.29 APO 150.24 V2 35.144
 RC 189.037 GL 1.64 GP -13.65 ZAL 61.86 ZAP 165.64 ETS 291.90 ZAE 130.98 ETE 191.95 ZAC 171.02 ETC 178.75 CLP-175.51

PLANETOCENTRIC CONIC

C3 20.180 VHL 4.492 DLA 25.04 RAL 93.72 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 8.885 DPA 9.22 RAP 77.20 ECC 1.3321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 21 3144.00 -26.78 106.79 324.10 80.45 4 13 45 2544.0 -27.83 98.28
 90.00 23 18 47 3933.05 -8.47 156.98 317.76 62.88 24 24 20 3333.1 -12.04 150.12
 100.00 5 5 38 2807.80 -29.03 82.43 324.48 82.54 5 52 25 2207.8 -29.76 73.71
 100.00 0 21 8 3744.49 -6.47 142.04 316.68 60.75 1 23 32 3144.5 -10.32 135.37
 110.00 6 57 19 2458.35 -34.09 56.42 325.00 87.34 7 38 18 1858.3 -34.08 47.17
 110.00 0 45 55 3666.71 -2.14 133.48 314.00 55.88 1 47 2 3066.7 -6.61 127.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .0484 TRA 2.6789 TC3-4.7103 BAU 1.2714 SGT 5668.7 SGR 505.9 SG3 144.8 ST 1140.1 SR 406.7 SS 352.6
 RDE .3119 RRA .1999 RC3 -.1514 FAU .02067 RRT .5794 RRF .5552 RTF .9372 CRT .2600 CRS .0733 CST -.9422
 FDE -.1005 FRA 1.0430 FC3 -.8869 BSP 18378 SGB 5691.2 R23 .0114 R13 .9372 LSA 1192.3 MSA 409.6 SSA 19.3
 BOE .3156 BRA 2.6863 BC3 4.7127 FSP -488 SGI 5676.3 SG2 411.8 THA 2.98 EL1 1145.7 EL2 390.8 ALF 6.00

LAUNCH DATE FEB 24 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 559.288

RL 148.06 LAL -.00 LOL 155.21 VL 26.209 GAL 6.20 AZL 89.91 HCA 279.69 SMA 120.02 ECC .25620 INC .0896 V1 30.092
 RP 107.79 LAP -.09 LOP 74.91 VP 36.832 GAP -13.67 AZP 89.98 TAL 161.25 TAP 80.94 RCA 89.27 APO 150.77 V2 35.155
 RC 190.875 GL .50 GP -13.30 ZAL 58.88 ZAP 166.21 ETS 289.08 ZAE 131.06 ETE 191.67 ZAC 173.31 ETC 174.75 CLP-176.33

PLANETOCENTRIC CONIC

C3 22.211 VHL 4.713 DLA 23.79 RAL 96.93 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 9.166 DPA 9.91 RAP 79.50 ECC 1.3655
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 54 3095.15 -27.29 103.30 328.82 82.13 4 46 29 2495.2 -28.10 94.73
 90.00 23 10 52 4028.02 -5.49 162.36 321.55 62.18 24 18 0 3428.0 -9.17 155.62
 100.00 5 35 29 2770.84 -29.33 79.73 329.10 83.94 6 21 40 2170.8 -29.86 70.96
 100.00 0 16 53 3827.56 -3.69 146.64 320.56 60.31 1 20 41 3227.6 -7.61 140.05
 110.00 7 22 1 2437.53 -34.15 54.80 329.48 88.30 8 2 39 1837.5 -34.00 45.55
 110.00 0 46 51 3733.64 .41 136.97 318.01 55.82 1 49 4 3133.6 -4.07 130.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1144 TRA 3.0133 TC3-4.2785 BAU 1.2711 SGT 5684.2 SGR 498.1 SG3 140.4 ST 1215.1 SR 395.5 SS 373.1
 RDE .3174 RRA .2171 RC3 -.1341 FAU .01910 RRT .5691 RRF .5446 RTF .9396 CRT .1056 CRS .1604 CST -.9632
 FDE -.1445 FRA 1.0957 FC3 -.7445 BSP 18491 SGB 5706.0 R23 .0086 R13 .9397 LSA 1267.9 MSA 405.1 SSA 18.0
 BOE .3374 BRA 3.0211 BC3 4.2806 FSP -476 SGI 5691.3 SG2 409.1 THA 2.87 EL1 1215.9 EL2 393.0 ALF 2.20

LAUNCH DATE FEB 24 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 564.559

RL 148.06 LAL -.00 LOL 155.21 VL 26.167 GAL 6.95 AZL 90.11 HCA 282.92 SMA 119.78 ECC .26380 INC .1047 V1 30.092
 RP 107.76 LAP .10 LOP 78.13 VP 36.812 GAP 14.19 AZP 90.02 TAL 159.64 TAP 82.55 RCA 88.18 APO 151.38 V2 35.166
 RC 192.690 GL -.55 GP -12.98 ZAL 56.05 ZAP 166.74 ETS 285.98 ZAE 131.12 ETE 191.41 ZAC 175.54 ETC 166.76 CLP-177.15

PLANETOCENTRIC CONIC

C3 24.615 VHL 4.961 DLA 22.58 RAL 99.93 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 9.470 DPA 10.52 RAP 81.82 ECC 1.4051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 24 23 3058.35 -27.60 100.66 333.41 83.42 5 15 22 2458.3 -28.23 92.05
 90.00 23 5 19 4115.00 -2.70 167.24 325.40 61.80 24 13 54 3515.0 -6.45 160.56
 100.00 6 2 23 2742.37 -29.51 77.63 333.63 85.02 6 48 5 2142.4 -29.89 68.85
 100.00 0 13 57 3906.20 -1.03 150.96 324.47 60.12 1 19 3 3306.2 -4.99 144.42
 110.00 7 44 51 2421.81 -34.17 53.57 333.91 89.03 8 25 13 1821.8 -33.93 44.33
 110.00 0 47 58 3799.53 2.93 140.41 322.00 55.93 1 51 18 3199.5 -1.56 134.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2796 TRA 3.3708 TC3-3.8442 BAU 1.2656 SGT 5694.5 SGR 489.6 SG3 136.3 ST 1310.3 SR 384.5 SS 394.4
 RDE .3240 RRA .2347 RC3 -.1168 FAU .01749 RRT .5593 RRF .5353 RTF .9421 CRT -.0180 CRS .2253 CST -.9771
 FDE -.1848 FRA 1.1510 FC3 -.6150 BSP 18479 SGB 5715.5 R23 .0069 R13 .9421 LSA 1366.1 MSA 392.2 SSA 16.8
 BOE .4280 BRA 3.3789 BC3 3.8460 FSP -460 SGI 5701.1 SG2 405.4 THA 2.77 EL1 1310.3 EL2 384.4 ALF 179.67

LAUNCH DATE FEB 24 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 569.745

RL 148.06 LAL -.00 LOL 155.21 VL 26.125 GAL 7.75 AZL 90.31 HCA 286.14 SMA 119.55 ECC .27210 INC .3054 V1 30.092
 RP 107.73 LAP .29 LOP 81.36 VP 36.793 GAP 14.76 AZP 90.09 TAL 158.05 TAP 84.19 RCA 87.02 APO 152.07 V2 35.177
 RC 194.480 GL -1.51 GP -12.68 ZAL 53.39 ZAP 167.16 ETS 282.58 ZAE 131.16 ETE 191.16 ZAC 177.51 ETC 144.95 CLP-177.98

PLANETOCENTRIC CONIC

C3 27.451 VHL 5.239 DLA 21.41 RAL 102.73 RAD 6568.1 VEL 12.199 PTH 2.19 VHP 9.800 DPA 11.08 RAP 84.16 ECC 1.4518
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 43 3030.74 -27.80 98.66 337.90 84.40 5 41 14 2430.7 -28.29 90.03
 90.00 23 1 18 4196.55 -.07 171.79 329.29 61.68 24 11 15 3596.6 -3.86 165.15
 100.00 6 26 46 2721.04 -29.63 76.06 338.08 85.85 7 12 7 2121.0 -29.89 67.26
 100.00 0 11 52 3981.49 1.53 155.09 328.40 60.14 1 18 14 3381.5 -2.46 148.57
 110.00 8 5 55 2410.87 -34.18 52.71 338.29 89.53 8 46 6 1810.9 -33.87 43.48
 110.00 0 49 13 3864.42 5.40 143.81 325.99 56.19 1 53 38 3264.4 .92 137.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4568 TRA 3.7431 TC3-3.4311 BAU 1.2597 SGT 5701.5 SGR 479.4 SG3 132.3 ST 1414.6 SR 372.9 SS 416.1
 RDE .3312 RRA .2518 RC3 -.1010 FAU .01601 RRT .5487 RRF .5251 RTF .9449 CRT -.1205 CRS .2810 CST -.9857
 FDE -.2253 FRA 1.2057 FC3 -.5049 BSP 18582 SGB 5721.6 R23 .0048 R13 .9449 LSA 1473.8 MSA 375.1 SSA 15.8
 BOE .5642 BRA 3.7515 BC3 3.4325 FSP -448 SGI 5707.6 SG2 400.4 THA 2.65 EL1 1415.3 EL2 370.0 ALF 178.05

LAUNCH DATE FEB 24 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 574.830

RL 148.06 LAL -0.00 LOL 155.21 VL 26.084 GAL 8.59 AZL 90.51 HCA 289.37 SMA 119.32 ECC .28120 INC .5127 V1 30.092
 RP 107.70 LAP .48 LOP 84.58 VP 36.773 GAP 15.37 AZP 90.17 TAL 156.50 TAP 85.87 RCA 85.76 APO 152.87 V2 35.187
 RC 196.245 GL -2.38 GP -12.41 ZAL 50.89 ZAP 167.53 ETS 278.90 ZAE 131.18 ETE 190.93 ZAC 178.15 ETC 81.91 CLP-178.82

PLANETOCENTRIC CONIC

C3 30.790 VHL 5.549 DLA 20.30 RAL 105.33 RAD 6568.2 VEL 12.335 PTH 2.22 VHP 10.159 DPA 11.57 RAP 86.50 ECC 1.5067
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 27 3010.67 -27.93 97.21 342.31 85.12 6 4 38 2410.7 -28.31 88.56
 90.00 22 58 19 4274.05 2.43 176.11 333.19 61.78 24 9 33 3674.0 -1.36 169.48
 100.00 6 48 58 2705.91 -29.70 74.94 342.46 86.43 7 34 3 2105.9 -29.88 66.14
 100.00 0 10 25 4054.04 3.98 159.08 332.33 60.35 1 17 59 3454.0 .00 152.55
 110.00 8 25 20 2404.42 -34.18 52.21 342.63 89.83 9 5 24 1804.4 -33.83 42.98
 110.00 0 50 32 3928.30 7.81 147.19 329.97 56.61 1 56 1 3328.3 3.36 140.92

DIFFERENTIAL CORRECTIONS

TDE -.6404 TRA 4.1378 TC3-3.0349 BAU 1.2498
 RDE .3392 RRA .2684 RC3 -.0859 FAU .01456
 FDE -.2639 FRA 1.2623 FC3 -.4093 BSP 18653
 BDE .7247 BRA 4.1465 BC3 3.0362 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 5703.8 SGR 468.1 SG3 128.5
 RRT .5377 RRF .5149 RTF .9479
 SGB 5722.9 R23 .0033 R13 .9479
 SG1 5709.3 SG2 394.3 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 1521.5 SR 361.3 SS 437.4
 CRT -.2004 CRS .3248 CST -.9910
 LSA 1584.1 MSA 357.0 SSA 14.9
 EL1 1523.3 EL2 353.6 ALF 177.12

LAUNCH DATE FEB 24 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 579.799

RL 148.06 LAL -0.00 LOL 155.21 VL 26.044 GAL 9.50 AZL 90.73 HCA 292.60 SMA 119.09 ECC .29119 INC .7285 V1 30.092
 RP 107.67 LAP .67 LOP 87.81 VP 36.754 GAP 16.03 AZP 90.28 TAL 154.98 TAP 87.58 RCA 84.41 APO 153.77 V2 35.196
 RC 197.986 GL -3.18 GP -12.16 ZAL 48.55 ZAP 167.84 ETS 274.92 ZAE 131.18 ETE 190.71 ZAC 176.61 ETC 41.25 CLP-179.68

PLANETOCENTRIC CONIC

C3 34.723 VHL 5.893 DLA 19.24 RAL 107.73 RAD 6568.4 VEL 12.494 PTH 2.26 VHP 10.552 DPA 11.99 RAP 88.85 ECC 1.5714
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 55 2997.02 -28.00 96.21 346.64 85.61 6 25 52 2397.0 -28.32 87.56
 90.00 22 56 4 4348.25 4.81 180.27 337.09 62.06 24 8 32 3748.3 1.03 173.62
 100.00 7 9 11 2696.28 -29.74 74.22 346.77 86.80 7 54 7 2096.3 -29.86 65.42
 100.00 0 9 25 4124.22 6.33 162.96 336.25 60.73 1 18 9 3524.2 2.38 156.40
 110.00 8 43 12 2402.13 -34.18 52.03 346.92 89.94 9 23 14 1802.1 -33.81 42.81
 110.00 0 51 53 3991.13 10.14 150.56 333.93 57.18 1 58 24 3391.1 5.75 144.22

DIFFERENTIAL CORRECTIONS

TDE -.8315 TRA 4.5566 TC3-2.6605 BAU 1.2355
 RDE .3482 RRA .2842 RC3 -.0720 FAU .01314
 FDE -.3014 FRA 1.3213 FC3 -.3275 BSP 18717
 BDE .9014 BRA 4.5654 BC3 2.6615 FSP -425

MID-COURSE EXECUTION ACCURACY

SGT 5701.4 SGR 455.5 SG3 124.8
 RRT .5260 RRF .5043 RTF .9511
 SGB 5719.6 R23 .0021 R13 .9511
 SG1 5706.5 SG2 387.1 THA 2.42

ORBIT DETERMINATION ACCURACY

ST 1626.2 SR 349.7 SS 458.3
 CRT -.2634 CRS .3603 CST -.9943
 LSA 1691.6 MSA 339.1 SSA 14.1
 EL1 1628.9 EL2 336.8 ALF 176.61

LAUNCH DATE FEB 24 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 584.627

RL 148.06 LAL -0.00 LOL 155.21 VL 26.005 GAL 10.47 AZL 90.95 HCA 295.83 SMA 118.87 ECC .30219 INC .9547 V1 30.092
 RP 107.64 LAP .86 LOP 91.05 VP 36.734 GAP 16.76 AZP 90.42 TAL 153.51 TAP 89.34 RCA 82.95 APO 154.80 V2 35.205
 RC 199.701 GL -3.89 GP -11.93 ZAL 46.38 ZAP 168.06 ETS 270.68 ZAE 131.16 ETE 190.50 ZAC 174.51 ETC 28.63 CLP 179.45

PLANETOCENTRIC CONIC

C3 39.356 VHL 6.273 DLA 18.24 RAL 109.96 RAD 6568.5 VEL 12.678 PTH 2.30 VHP 10.982 DPA 12.36 RAP 91.19 ECC 1.6477
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 23 2988.93 -28.04 95.63 350.90 85.91 6 45 12 2388.9 -28.32 86.97
 90.00 22 54 20 4419.64 7.07 184.29 340.98 62.51 24 8 0 3819.6 3.33 177.61
 100.00 7 27 36 2691.54 -29.75 73.87 351.02 86.99 8 12 28 2091.5 -29.85 65.07
 100.00 0 8 44 4192.27 8.58 166.77 340.17 61.26 1 18 36 3592.3 4.68 160.15
 110.00 8 59 36 2403.71 -34.18 52.15 351.16 89.87 9 39 40 1803.7 -33.82 42.93
 110.00 0 53 13 4052.86 12.40 153.91 337.88 57.89 2 0 46 3452.9 8.07 147.49

DIFFERENTIAL CORRECTIONS

TDE-1.0262 TRA 5.0064 TC3-2.3065 BAU 1.2140
 RDE .3583 RRA .2993 RC3 -.0590 FAU .01167
 FDE -.3364 FRA 1.3845 FC3 -.2568 BSP 18643
 BDE 1.0869 BRA 5.0153 BC3 2.3073 FSP -410

MID-COURSE EXECUTION ACCURACY

SGT 5694.9 SGR 442.0 SG3 121.3
 RRT .5137 RRF .4939 RTF .9544
 SGB 5712.0 R23 .0017 R13 .9544
 SG1 5699.4 SG2 378.9 THA 2.29

ORBIT DETERMINATION ACCURACY

ST 1723.9 SR 338.4 SS 478.3
 CRT -.3115 CRS .3871 CST -.9963
 LSA 1791.9 MSA 322.5 SSA 13.4
 EL1 1727.3 EL2 320.9 ALF 176.38

LAUNCH DATE FEB 24 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 589.288

RL 148.06 LAL -0.00 LOL 155.21 VL 25.966 GAL 11.51 AZL 91.19 HCA 299.06 SMA 118.66 ECC .31432 INC 1.1936 V1 30.092
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.715 GAP 17.55 AZP 90.58 TAL 152.09 TAP 91.15 RCA 81.36 APO 155.96 V2 35.213
 RC 201.391 GL -4.54 GP -11.72 ZAL 44.37 ZAP 168.19 ETS 266.20 ZAE 131.11 ETE 190.29 ZAC 172.31 ETC 23.16 CLP 178.55

PLANETOCENTRIC CONIC

C3 44.828 VHL 6.695 DLA 17.31 RAL 112.01 RAD 6568.7 VEL 12.892 PTH 2.35 VHP 11.456 DPA 12.66 RAP 93.53 ECC 1.7378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 3 2985.75 -28.06 95.39 355.08 86.02 7 2 48 2385.7 -28.32 86.74
 90.00 22 53 1 4488.47 9.21 188.22 344.86 63.10 24 7 49 3888.5 5.53 181.47
 100.00 7 44 23 2691.17 -29.76 73.84 355.20 87.00 8 29 15 2091.2 -29.85 65.04
 100.00 0 8 17 4258.28 10.72 170.50 344.06 61.93 1 19 15 3658.3 6.88 163.81
 110.00 9 14 38 2408.81 -34.18 52.55 355.35 89.63 9 54 47 1808.8 -33.85 43.32
 110.00 0 54 32 4113.40 14.57 157.27 341.82 58.73 2 3 5 3513.4 10.32 150.74

DIFFERENTIAL CORRECTIONS

TDE-1.2351 TRA 5.4813 TC3-1.9836 BAU 1.1891
 RDE .3690 RRA .3126 RC3 -.0475 FAU .01030
 FDE -.3725 FRA 1.4497 FC3 -.1990 BSP 18704
 BDE 1.2890 BRA 5.4902 BC3 1.9842 FSP -400

MID-COURSE EXECUTION ACCURACY

SGT 5684.3 SGR 426.9 SG3 117.9
 RRT .4994 RRF .4815 RTF .9580
 SGB 5700.3 R23 .0012 R13 .9580
 SG1 5688.3 SG2 369.6 THA 2.16

ORBIT DETERMINATION ACCURACY

ST 1815.5 SR 326.8 SS 498.5
 CRT -.3534 CRS .4124 CST -.9976
 LSA 1886.1 MSA 306.1 SSA 12.7
 EL1 1819.3 EL2 305.1 ALF 176.25

LAUNCH DATE FEB 24 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 593.747

RL 148.06 LAL -.00 LOL 155.21 VL 25.928 GAL 12.65 AZL 91.45 HCA 302.29 SMA 118.45 ECC .32775 INC 1.4483 V1 30.092
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.696 GAP 18.42 AZP 90.77 TAL 150.74 TAP 93.03 RCA 79.63 APO 157.28 V2 35.221
 RC 203.056 GL -5.12 GP -11.52 ZAL 42.52 ZAP 168.24 ETS 261.51 ZAE 131.02 ETE 190.08 ZAC 170.10 ETC 20.16 CLP 177.62

PLANETOCENTRIC CONIC

C3 51.307 VHL 7.163 CLA 16.44 RAL 113.88 RAD 6568.9 VEL 13.140 PTH 2.40 VHP 11.979 DPA 12.91 RAP 95.84 ECC 1.8444
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 3 2986.87 -28.05 95.48 359.18 85.98 7 18 50 2386.9 -28.32 86.82
 90.00 22 51 59 4554.88 11.23 192.05 348.71 63.83 24 7 53 3954.9 7.62 185.23
 100.00 7 59 39 2694.71 -29.74 74.11 359.30 86.87 8 44 34 2094.7 -29.86 65.30
 100.00 0 8 0 4322.27 12.74 174.17 347.93 62.73 1 20 2 3722.3 8.99 167.39
 110.00 9 28 22 2417.12 -34.18 53.20 359.48 89.25 10 8 39 1817.1 -33.90 43.97
 110.00 0 55 46 4172.62 16.63 160.61 345.72 59.70 2 5 19 3572.6 12.48 153.96

DIFFERENTIAL CORRECTIONS

TDE-1.4538 TRA 5.9880 TC3-1.6863 BAU 1.1569
 RDE .3808 RRA .3242 RC3 -.0372 FAU .00893
 FDE -.4081 FRA 1.5194 FC3 -.1506 BSP 18744
 BDE 1.5029 BRA 5.9968 BC3 1.6867 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 5668.2 SGR 410.7 SG3 114.6
 RRT .4830 RRF .4674 RTF .9617
 SGB 5683.0 R23 .0012 R13 .9617
 SG1 5671.6 SG2 359.4 THA 2.01

ORBIT DETERMINATION ACCURACY

ST 1897.9 SR 315.2 SS 518.7
 CRT -.3888 CRS .4343 CST -.9985
 LSA 1971.3 MSA 290.5 SSA 12.1
 EL1 1902.0 EL2 289.8 ALF 176.22

LAUNCH DATE FEB 24 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 597.962

RL 148.06 LAL -.00 LOL 155.21 VL 25.892 GAL 13.88 AZL 91.72 HCA 305.53 SMA 118.25 ECC .34265 INC 1.7218 V1 30.092
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.677 GAP 19.38 AZP 91.00 TAL 149.46 TAP 94.98 RCA 77.73 APO 158.77 V2 35.228
 RC 204.697 GL -5.64 GP -11.34 ZAL 40.83 ZAP 168.18 ETS 256.67 ZAE 130.89 ETE 189.88 ZAC 167.90 ETC 18.29 CLP 176.66

PLANETOCENTRIC CONIC

C3 59.008 VHL 7.682 CLA 15.63 RAL 115.59 RAD 6569.1 VEL 13.430 PTH 2.45 VHP 12.559 DPA 13.11 RAP 98.13 ECC 1.9711
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 43 32 2991.79 -28.03 95.83 3.19 85.80 7 33 23 2391.8 -28.32 87.18
 90.00 22 51 9 4618.91 13.12 195.80 352.52 64.68 24 8 8 4018.9 9.61 188.89
 100.00 8 13 29 2701.71 -29.72 74.62 3.31 86.59 8 58 30 2101.7 -29.87 65.82
 100.00 0 7 49 4384.22 14.65 177.79 351.76 63.65 1 20 53 3784.2 10.99 170.91
 110.00 9 40 52 2428.30 -34.16 54.08 3.53 88.73 10 21 20 1828.3 -33.96 44.84
 110.00 0 56 56 4230.39 18.58 163.95 349.60 60.78 2 7 26 3630.4 14.55 157.16

DIFFERENTIAL CORRECTIONS

TDE-1.6830 TRA 6.5340 TC3-1.4142 BAU 1.1158
 RDE .3937 RRA .3333 RC3 -.0281 FAU .00752
 FDE -.4438 FRA 1.5945 FC3 -.1104 BSP 18745
 BDE 1.7284 BRA 6.5425 BC3 1.4145 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 5648.6 SGR 393.4 SG3 111.4
 RRT .4645 RRF .4511 RTF .9655
 SGB 5662.3 R23 .0014 R13 .9655
 SG1 5651.6 SG2 348.2 THA 1.86

ORBIT DETERMINATION ACCURACY

ST 1971.0 SR 303.7 SS 539.2
 CRT -.4193 CRS .4541 CST -.9990
 LSA 2047.4 MSA 275.6 SSA 11.4
 EL1 1975.2 EL2 275.1 ALF 176.23

LAUNCH DATE FEB 24 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 601.876

RL 148.06 LAL -.00 LOL 155.21 VL 25.856 GAL 15.22 AZL 92.02 HCA 308.76 SMA 118.06 ECC .35925 INC 2.0184 V1 30.092
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.658 GAP 20.45 AZP 91.26 TAL 148.27 TAP 97.03 RCA 75.65 APO 160.47 V2 35.235
 RC 206.313 GL -6.11 GP -11.17 ZAL 39.29 ZAP 168.02 ETS 251.72 ZAE 130.72 ETE 189.67 ZAC 165.74 ETC 17.03 CLP 175.65

PLANETOCENTRIC CONIC

C3 68.206 VHL 8.259 CLA 14.89 RAL 117.14 RAD 6569.3 VEL 13.768 PTH 2.52 VHP 13.206 DPA 13.26 RAP 100.39 ECC 2.1225
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 33 3000.04 -27.99 96.43 7.09 85.50 7 46 33 2400.0 -28.32 87.78
 90.00 22 50 28 4680.50 14.89 199.46 356.27 65.63 24 8 29 4080.5 11.47 192.45
 100.00 8 25 56 2711.76 -29.67 75.37 7.23 86.20 9 11 8 2111.8 -29.88 66.57
 100.00 0 7 42 4444.01 16.42 181.34 355.53 64.67 1 21 46 3844.0 12.87 174.34
 110.00 9 52 9 2442.02 -34.14 55.15 7.49 88.10 10 32 51 1842.0 -34.02 45.90
 110.00 0 57 59 4286.51 20.41 167.28 353.42 61.97 2 9 25 3686.5 16.51 160.33

DIFFERENTIAL CORRECTIONS

TDE-1.9245 TRA 7.1220 TC3-1.1671 BAU 1.0644
 RDE .4080 RRA .3393 RC3 -.0204 FAU .00607
 FDE -.4800 FRA 1.6760 FC3 -.0771 BSP 18740
 BDE 1.9673 BRA 7.1301 BC3 1.1673 FSP -368

MID-COURSE EXECUTION ACCURACY

SGT 5624.7 SGR 374.9 SG3 108.4
 RRT .4421 RRF .4316 RTF .9693
 SGB 5637.2 R23 .0018 R13 .9693
 SG1 5627.2 SG2 336.2 THA 1.69

ORBIT DETERMINATION ACCURACY

ST 2034.3 SR 292.3 SS 560.4
 CRT -.4469 CRS .4728 CST -.9994
 LSA 2114.1 MSA 261.2 SSA 10.9
 EL1 2038.6 EL2 261.0 ALF 176.26

LAUNCH DATE FEB 24 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 605.421

RL 148.06 LAL -.00 LOL 155.21 VL 25.822 GAL 16.70 AZL 92.34 HCA 312.00 SMA 117.87 ECC .37781 INC 2.3434 V1 30.092
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.639 GAP 21.65 AZP 91.57 TAL 147.19 TAP 99.19 RCA 73.34 APO 162.41 V2 35.240
 RC 207.904 GL -6.52 GP -11.02 ZAL 37.92 ZAP 167.74 ETS 246.74 ZAE 130.48 ETE 189.46 ZAC 163.62 ETC 16.13 CLP 174.59

PLANETOCENTRIC CONIC

C3 79.254 VHL 8.902 CLA 14.21 RAL 118.53 RAD 6569.5 VEL 14.163 PTH 2.58 VHP 13.930 DPA 13.36 RAP 102.59 ECC 2.3043
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 11 3011.20 -27.92 97.24 10.86 85.10 7 58 22 2411.2 -28.31 88.60
 90.00 22 49 53 4739.52 16.51 203.03 359.94 66.66 24 8 53 4139.5 13.21 195.91
 100.00 8 37 5 2724.48 -29.61 76.31 11.01 85.71 9 22 29 2124.5 -29.89 67.52
 100.00 0 7 36 4501.47 18.06 184.82 359.23 65.77 1 22 37 3901.5 14.64 177.70
 110.00 10 2 16 2457.96 -34.09 56.39 11.33 87.36 10 43 14 1858.0 -34.08 47.14
 110.00 0 58 54 4340.76 22.11 170.57 357.17 63.24 2 11 15 3740.8 18.35 163.46

DIFFERENTIAL CORRECTIONS

TDE-2.1766 TRA 7.7613 TC3 -.9420 BAU .9982
 RDE .4239 RRA .3416 RC3 -.0137 FAU .00451
 FDE -.5163 FRA 1.7660 FC3 -.0492 BSP 18633
 BDE 2.2175 BRA 7.7688 BC3 .9421 FSP -357

MID-COURSE EXECUTION ACCURACY

SGT 5597.1 SGR 355.6 SG3 105.6
 RRT .4158 RRF .4084 RTF .9730
 SGB 5608.4 R23 .0027 R13 .9730
 SG1 5599.0 SG2 323.3 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 2086.8 SR 281.2 SS 582.4
 CRT -.4720 CRS .4904 CST -.9996
 LSA 2170.6 MSA 247.5 SSA 10.3
 EL1 2091.0 EL2 247.4 ALF 176.31

LAUNCH DATE FEB 24 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 608.504

RL 148.06 LAL -.00 LOL 155.21 VL 25.789 GAL 18.33 AZL 92.70 HCA 315.23 SMA 117.70 ECC .39862 INC 2.7034 V1 30.092
 RP 107.52 LAP 1.30 LOP 110.48 VP 36.621 GAP 22.99 AZP 91.92 TAL 146.24 TAP 101.47 RCA 70.78 APO 164.61 V2 35.246
 RC 209.470 GL -6.89 GP -10.87 ZAL 36.72 ZAP 167.34 ETS 241.77 ZAE 130.18 ETE 189.25 ZAC 161.55 ETC 15.47 CLP 173.46

PLANETOCENTRIC CONIC

C3 92.612 VHL 9.624 CLA 13.60 RAL 119.74 RAD 6569.8 VEL 14.627 PTH 2.65 VHP 14.746 DPA 13.42 RAP 104.74 ECC 2.5242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 18 26 3024.88 -27.84 98.24 14.48 84.61 8 8 51 2424.9 -28.30 89.60
 90.00 22 49 21 4795.77 18.00 206.50 3.50 67.76 24 9 17 4195.8 14.82 199.26
 100.00 8 46 55 2739.52 -29.53 77.42 14.65 85.13 9 32 35 2139.5 -29.89 68.63
 100.00 0 7 29 4556.37 19.56 188.21 2.81 66.93 1 23 25 3956.4 16.27 180.96
 110.00 10 11 13 2475.78 -34.03 57.78 15.04 86.54 10 52 28 1875.8 -34.13 48.53
 110.00 0 59 41 4392.87 23.67 173.81 .82 64.59 2 12 54 3792.9 20.06 166.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.4493 TRA 8.4507 TC3 -.7419 BAU .9187 SGT 5564.3 SGR 335.3 SG3 102.8 ST 2130.7 SR 270.1 SS 606.6
 RDE .4414 RRA .3389 RC3 -.0084 FAU .00287 RRT .3830 RRF .3785 RTF .9767 CRT -.4978 CRS .5099 CST -.9998
 FDE -.5554 FRA 1.8639 FC3 -.0268 BSP 18624 SGB 5574.4 R23 .0035 R13 .9767 LSA 2219.5 MSA 233.8 SSA 9.7
 BDE 2.4888 BRA 8.4575 BC3 .7420 FSP -.348 SG1 5565.8 SGT 309.6 THA 1.33 EL1 2135.0 EL2 233.8 ALF 176.35

LAUNCH DATE FEB 24 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 611.007

RL 148.06 LAL -.00 LOL 155.21 VL 25.758 GAL 20.15 AZL 93.11 HCA 318.47 SMA 117.53 ECC .42206 INC 3.1069 V1 30.092
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.603 GAP 24.51 AZP 92.33 TAL 145.45 TAP 103.91 RCA 67.92 APO 167.13 V2 35.250
 RC 211.012 GL -7.22 GP -10.73 ZAL 35.68 ZAP 166.80 ETS 236.87 ZAE 129.80 ETE 189.02 ZAC 159.56 ETC 14.97 CLP 172.26

PLANETOCENTRIC CONIC

C3 108.883 VHL 10.435 CLA 13.06 RAL 120.79 RAD 6570.1 VEL 15.173 PTH 2.72 VHP 15.671 DPA 13.44 RAP 106.81 ECC 2.7919
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 27 20 3040.74 -27.73 99.39 17.92 84.05 8 18 0 2440.7 -28.27 90.76
 90.00 22 48 48 4848.98 19.33 209.83 6.92 68.90 24 9 37 4249.0 16.29 202.47
 100.00 8 55 27 2756.53 -29.43 78.67 18.12 84.48 9 41 24 2156.5 -29.88 69.90
 100.00 0 7 18 4608.42 20.91 191.48 6.26 68.14 1 24 6 4008.4 17.76 184.10
 110.00 10 18 58 2495.21 -33.94 59.29 18.57 85.65 11 0 33 1895.2 -34.17 50.05
 110.00 1 0 16 4442.51 25.09 176.97 4.34 65.98 2 14 19 3842.5 21.63 169.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.7393 TRA 9.2031 TC3 -.5627 BAU .8191 SGT 5527.3 SGR 314.4 SG3 100.2 ST 2164.6 SR 259.3 SS 633.0
 RDE .4611 RRA .3302 RC3 -.0042 FAU .00105 RRT .3423 RRF .3407 RTF .9802 CRT -.5238 CRS .5305 CST -.9999
 FDE -.5965 FRA 1.9729 FC3 -.0083 BSP 18584 SGB 5536.2 R23 .0044 R13 .9802 LSA 2259.4 MSA 220.4 SSA 9.2
 BDE 2.7779 BRA 9.2090 BC3 .5627 FSP -.339 SG1 5528.4 SGT 295.3 THA 1.12 EL1 2168.9 EL2 220.4 ALF 176.37

LAUNCH DATE FEB 24 1969

FLIGHT TIME 218.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 612.773

RL 148.06 LAL -.00 LOL 155.21 VL 25.729 GAL 22.19 AZL 93.57 HCA 321.70 SMA 117.37 ECC .44855 INC 3.5656 V1 30.092
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.587 GAP 26.24 AZP 92.80 TAL 144.85 TAP 106.55 RCA 64.73 APO 170.02 V2 35.254
 RC 212.528 GL -7.50 GP -10.60 ZAL 34.83 ZAP 166.11 ETS 232.07 ZAE 129.32 ETE 188.77 ZAC 157.66 ETC 14.60 CLP 170.96

PLANETOCENTRIC CONIC

C3 128.870 VHL 11.352 CLA 12.59 RAL 121.65 RAD 6570.4 VEL 15.818 PTH 2.80 VHP 16.724 DPA 13.44 RAP 108.78 ECC 3.1209
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 34 49 3058.48 -27.60 100.67 21.15 83.42 8 25 47 2458.5 -28.23 92.06
 90.00 22 48 13 4898.79 20.52 213.00 10.15 70.05 24 9 52 4298.8 17.62 205.52
 100.00 9 2 38 2775.24 -29.29 80.05 21.37 83.77 9 48 53 2175.2 -29.85 71.29
 100.00 0 7 1 4657.27 22.12 194.61 9.52 69.36 1 24 38 4057.3 19.11 187.10
 110.00 10 25 30 2515.96 -33.82 60.90 21.91 84.71 11 7 26 1916.0 -34.18 51.67
 110.00 1 0 38 4489.31 26.35 180.03 7.68 67.39 2 15 28 3889.3 23.05 172.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.0491 TRA10.0262 TC3 -.4030 BAU .6944 SGT 5485.5 SGR 293.1 SG3 97.7 ST 2188.3 SR 248.9 SS 662.3
 RDE .4837 RRA .3137 RC3 -.0011 FAU-.00104 RRT .2909 RRF .2921 RTF .9836 CRT -.5507 CRS .5529 CST -.9999
 FDE -.6403 FRA 2.0948 FC3 .0070 BSP 18523 SGB 5493.3 R23 .0054 R13 .9836 LSA 2290.5 MSA 207.4 SSA 8.6
 BDE 3.0872 BRA10.0311 BC3 .4030 FSP -.330 SG1 5486.2 SGT 280.4 THA .89 EL1 2192.6 EL2 207.4 ALF 176.38

LAUNCH DATE FEB 24 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 613.597

RL 148.06 LAL -.00 LOL 155.21 VL 25.703 GAL 24.49 AZL 94.09 HCA 324.93 SMA 117.23 ECC .47860 INC 4.0949 V1 30.092
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.571 GAP 28.23 AZP 93.35 TAL 144.49 TAP 109.42 RCA 61.13 APO 173.34 V2 35.256
 RC 214.018 GL -7.74 GP -10.47 ZAL 34.17 ZAP 165.25 ETS 227.42 ZAE 128.72 ETE 188.50 ZAC 155.87 ETC 14.33 CLP 169.55

PLANETOCENTRIC CONIC

C3 153.647 VHL 12.395 CLA 12.20 RAL 122.32 RAD 6570.7 VEL 16.582 PTH 2.88 VHP 17.932 DPA 13.42 RAP 110.64 ECC 3.5286
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 40 48 3077.87 -27.44 102.06 24.13 82.73 8 32 6 2477.9 -28.17 93.47
 90.00 22 47 33 4944.79 21.56 215.97 13.15 71.19 24 9 57 4344.8 18.80 208.39
 100.00 9 8 23 2795.42 -29.14 81.53 24.37 85.01 9 54 58 2195.4 -29.80 72.79
 100.00 0 6 35 4702.48 23.17 197.55 12.54 70.57 1 24 57 4102.5 20.31 189.92
 110.00 10 30 42 2537.81 -33.67 62.59 24.99 83.72 11 13 0 1937.8 -34.17 53.38
 110.00 1 0 45 4532.84 27.46 182.93 10.79 68.79 2 16 18 3932.8 24.32 175.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.3769 TRA10.9336 TC3 -.2609 BAU .5360 SGT 5439.7 SGR 272.1 SG3 95.4 ST 2200.7 SR 239.1 SS 694.9
 RDE .5098 RRA .2875 RC3 .0009 FAU-.00353 RRT .2256 RRF .2294 RTF .9866 CRT -.5786 CRS .5770 CST -.9999
 FDE -.6869 FRA 2.2331 FC3 .0199 BSP 18356 SGB 5446.5 R23 .0065 R13 .9866 LSA 2311.9 MSA 194.7 SSA 8.0
 BDE 3.4151 BRA10.9374 BC3 .2609 FSP -.321 SG1 5440.0 SGT 265.0 THA .65 EL1 2205.1 EL2 194.6 ALF 176.37

LAUNCH DATE FEB 25 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 6 1969

HELIOCENTRIC CONIC

DISTANCE 191.795

RL 148.10 LAL -.00 LOL 156.22 VL 27.700 GAL -9.94 AZL 89.18 HCA 86.22 SMA 129.48 ECC .22330 INC .8212 V1 30.086
 RP 108.47 LAP .82 LOP 242.44 VP 37.709 GAP -8.95 AZP 89.95 TAL 220.69 TAP 306.91 RCA 100.57 APO 158.39 V2 34.936
 RC 57.109 GL 3.80 GP 18.54 ZAL 151.38 ZAP 27.23 ETS 322.26 ZAE 146.85 ETE 23.87 ZAC 126.22 ETC 148.39 CLP -20.30

PLANETOCENTRIC CONIC

C3 34.875 VHL 5.906 DLA 5.32 RAL 2.72 RAD 6568.4 VEL 12.500 PTH 2.26 VHP 6.844 DPA 30.89 RAP 32.88 ECC 1.5740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 27 2517.22 -25.58 61.59 235.43 102.59 1 16 24 1917.2 -23.59 53.49
 90.00 13 51 50 4830.27 18.87 208.65 232.04 68.49 15 12 20 4230.3 15.78 201.33
 100.00 1 58 18 2246.76 -26.84 41.37 235.10 103.67 2 35 45 1646.8 -24.70 33.23
 100.00 15 10 40 4575.96 20.08 189.43 231.52 67.38 16 26 56 3976.0 16.84 182.13
 110.00 3 12 17 2015.18 -30.26 22.74 234.04 106.72 3 45 53 1415.2 -27.67 14.50
 110.00 16 13 10 4380.30 23.30 173.02 229.96 64.25 17 26 10 3780.3 19.65 165.79

DIFFERENTIAL CORRECTIONS

TDE -.1639 TRA -.2947 TC3 .3989 BAU .2106
 RDE -.3345 RRA .2616 RC3 .2116 FAU .05235
 FDE -.3164 FRA -.5163 FC3-1.2996 BSP 1627
 BDE .3725 BRA .3940 BC3 .4516 FSP -373

MID-COURSE EXECUTION ACCURACY

SGT 574.2 SGR 482.5 SG3 142.1
 RRT .3472 RRF -.5197 RTF -.5613
 SGB .750.0 R23 -.1067 R13 -.6509
 SG1 623.7 SG2 416.6 THA 31.63

ORBIT DETERMINATION ACCURACY

ST 181.4 SR 333.5 SS 204.1
 CRT .7460 CRS -.7622 CST -.9769
 LSA 404.7 MSA 145.6 SSA 29.0
 EL1 363.1 EL2 111.0 ALF 65.47

LAUNCH DATE FEB 25 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 198.535

RL 148.10 LAL -.00 LOL 156.22 VL 27.820 GAL -9.87 AZL 89.36 HCA 89.40 SMA 130.33 ECC .21772 INC .6352 V1 30.086
 RP 108.51 LAP .64 LOP 245.62 VP 37.786 GAP -8.12 AZP 89.99 TAL 222.04 TAP 311.44 RCA 101.95 APO 158.70 V2 34.923
 RC 59.010 GL 2.99 GP 19.79 ZAL 152.48 ZAP 30.40 ETS 325.11 ZAE 146.69 ETE 26.82 ZAC 125.45 ETC 147.71 CLP -23.56

PLANETOCENTRIC CONIC

C3 33.968 VHL 5.828 DLA 4.17 RAL 2.11 RAD 6568.3 VEL 12.463 PTH 2.25 VHP 6.438 DPA 32.02 RAP 32.22 ECC 1.5590
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 39 2474.65 -24.91 58.65 233.86 103.92 1 21 54 1874.6 -22.75 50.65
 90.00 13 40 45 4859.53 19.59 210.49 231.23 69.14 15 1 44 4259.5 16.58 203.11
 100.00 2 3 57 2205.97 -26.16 38.54 233.51 105.01 2 40 43 1606.0 -23.84 30.50
 100.00 15 0 8 4603.44 20.79 191.16 230.73 68.02 16 16 52 4003.4 17.62 183.80
 110.00 3 16 41 1978.34 -29.51 20.13 232.38 108.10 3 49 39 1378.3 -26.75 12.03
 110.00 16 3 54 4403.83 23.99 174.50 229.22 64.89 17 17 17 3803.8 20.41 167.19

DIFFERENTIAL CORRECTIONS

TDE -.1525 TRA -.2886 TC3 .4081 BAU .2173
 RDE -.3168 RRA .2758 RC3 .2497 FAU .05767
 FDE -.3929 FRA -.5937 FC3-1.4699 BSP 1708
 BDE .3516 BRA .3992 BC3 .4785 FSP -430

MID-COURSE EXECUTION ACCURACY

SGT 574.2 SGR 505.6 SG3 160.0
 RRT .3715 RRF -.5743 RTF -.5558
 SGB 765.1 R23 -.1204 R13 -.6718
 SG1 637.7 SG2 422.7 THA 35.53

ORBIT DETERMINATION ACCURACY

ST 173.1 SR 322.1 SS 237.7
 CRT .7150 CRS -.7667 CST -.9754
 LSA 407.6 MSA 152.3 SSA 29.4
 EL1 348.1 EL2 112.0 ALF 66.39

LAUNCH DATE FEB 25 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 205.248

RL 148.10 LAL -.00 LOL 156.22 VL 27.924 GAL -9.80 AZL 89.55 HCA 92.58 SMA 131.07 ECC .21293 INC .4494 V1 30.086
 RP 108.55 LAP .45 LOP 248.80 VP 37.852 GAP -7.33 AZP 90.02 TAL 223.25 TAP 315.84 RCA 103.16 APO 158.98 V2 34.911
 RC 60.976 GL 2.15 GP 21.16 ZAL 153.44 ZAP 33.80 ETS 327.62 ZAE 146.65 ETE 30.16 ZAC 124.47 ETC 147.13 CLP -26.99

PLANETOCENTRIC CONIC

C3 33.198 VHL 5.762 DLA 3.04 RAL 1.62 RAD 6568.3 VEL 12.433 PTH 2.25 VHP 6.067 DPA 33.18 RAP 31.32 ECC 1.5464
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 9 2433.69 -24.21 55.86 232.52 105.15 1 27 43 1833.7 -21.90 47.95
 90.00 13 30 22 4888.93 20.29 212.36 230.62 69.82 14 51 51 4288.9 17.36 204.92
 100.00 2 9 55 2166.74 -25.44 35.84 232.14 106.25 2 46 2 1566.7 -22.96 27.92
 100.00 14 50 17 4631.12 21.48 192.92 230.13 68.70 16 7 28 4031.1 18.40 185.49
 110.00 3 21 25 1942.94 -28.73 17.66 230.96 109.37 3 53 48 1342.9 -25.82 9.70
 110.00 15 55 16 4427.68 24.67 176.02 228.67 65.55 17 9 4 3827.7 21.16 168.63

DIFFERENTIAL CORRECTIONS

TDE -.1437 TRA -.2879 TC3 .4085 BAU .2229
 RDE -.2969 RRA .2912 RC3 .2921 FAU .06339
 FDE -.4788 FRA -.6742 FC3-1.6530 BSP 1753
 BDE .3298 BRA .4095 BC3 .5022 FSP -490

MID-COURSE EXECUTION ACCURACY

SGT 569.4 SGR 533.4 SG3 179.3
 RRT .3870 RRF -.6282 RTF -.5384
 SGB 780.2 R23 -.1347 R13 -.6922
 SG1 650.8 SG2 430.3 THA 40.21

ORBIT DETERMINATION ACCURACY

ST 167.4 SR 307.9 SS 272.6
 CRT .6762 CRS -.7646 CST -.9712
 LSA 413.6 MSA 158.8 SSA 29.6
 EL1 331.2 EL2 114.7 ALF 66.89

LAUNCH DATE FEB 25 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 211.932

RL 148.10 LAL -.00 LOL 156.22 VL 28.013 GAL -9.73 AZL 89.74 HCA 95.76 SMA 131.72 ECC .20881 INC .2628 V1 30.086
 RP 108.58 LAP .26 LOP 251.98 VP 37.907 GAP -6.59 AZP 90.03 TAL 224.34 TAP 320.10 RCA 104.22 APO 159.23 V2 34.900
 RC 63.000 GL 1.27 GP 22.64 ZAL 154.27 ZAP 37.41 ETS 329.92 ZAE 146.69 ETE 33.97 ZAC 123.27 ETC 146.66 CLP -30.61

PLANETOCENTRIC CONIC

C3 32.540 VHL 5.704 DLA 1.93 RAL 1.26 RAD 6568.3 VEL 12.406 PTH 2.24 VHP 5.730 DPA 34.36 RAP 30.13 ECC 1.5355
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 58 2394.13 -23.48 53.19 231.40 106.30 1 33 52 1794.1 -21.02 45.38
 90.00 13 20 38 4918.39 20.97 214.26 230.20 70.53 14 42 37 4318.4 18.13 206.74
 100.00 2 16 12 2128.85 -24.69 33.28 231.00 107.41 2 51 41 1528.9 -22.07 25.46
 100.00 14 41 5 4658.90 22.16 194.71 229.73 69.41 15 58 44 4058.9 19.16 187.20
 110.00 3 26 31 1908.79 -27.94 15.32 229.75 110.55 3 58 20 1308.8 -24.89 7.48
 110.00 15 47 16 4451.73 25.34 177.57 228.31 66.25 17 1 28 3851.7 21.91 170.09

DIFFERENTIAL CORRECTIONS

TDE -.1369 TRA -.2916 TC3 .4006 BAU .2284
 RDE -.2741 RRA .3079 RC3 .3393 FAU .06949
 FDE -.5756 FRA -.7577 FC3-1.8488 BSP 1802
 BDE .3064 BRA .4241 BC3 .5250 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 560.0 SGR 567.0 SG3 200.1
 RRT .3908 RRF -.6802 RTF -.5098
 SGB 796.9 R23 -.1440 R13 -.7157
 SG1 664.6 SG2 439.7 THA 45.90

ORBIT DETERMINATION ACCURACY

ST 163.8 SR 290.8 SS 309.3
 CRT .6269 CRS -.7552 CST -.9646
 LSA 423.2 MSA 164.6 SSA 29.6
 EL1 311.8 EL2 119.0 ALF 67.01

LAUNCH DATE FEB 25 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 218.585

RL 148.10 LAL -.00 LOL 156.22 VL 28.089 GAL -9.67 AZL 89.93 HCA 98.94 SMA 132.28 ECC .20527 INC .0734 V1 30.086
 RP 108.62 LAP .07 LOP 255.16 VP 37.953 GAP -5.87 AZP 90.01 TAL 225.28 TAP 324.22 RCA 105.13 APO 159.43 V2 34.889
 RC 65.076 GL .36 GP 24.23 ZAL 154.96 ZAP 41.24 ETS 332.09 ZAE 146.77 ETE 38.28 ZAC 121.84 ETC 146.34 CLP -34.45

PLANETOCENTRIC CONIC

C3 31.970 VHL 5.654 DLA .84 RAL 1.01 RAD 6568.3 VEL 12.383 PTH 2.24 VHP 5.427 DPA 35.55 RAP 28.65 ECC 1.5261
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 7 2355.72 -22.72 50.63 230.47 107.36 1 40 23 1755.7 -20.13 42.91
 90.00 13 11 33 4947.91 21.63 216.17 229.95 71.27 14 34 1 4347.9 18.87 208.58
 100.00 2 22 51 2092.09 -23.92 30.82 230.05 108.48 2 57 43 1492.1 -21.17 23.10
 100.00 14 32 30 4686.77 22.82 196.52 229.51 70.14 15 50 37 4086.8 19.90 188.94
 110.00 3 31 59 1875.68 -27.13 13.09 228.75 111.64 4 3 15 1275.7 -23.95 5.37
 110.00 15 39 51 4475.94 26.00 179.15 228.13 66.98 16 54 27 3875.9 22.65 171.59

DIFFERENTIAL CORRECTIONS

TOE -.1315 TRA -.2991 TC3 .3848 BAU .2348
 RDE -.2477 RRA .3262 RC3 .3921 FAU .07600
 FDE -.6854 FRA -.8442 FC3-2.0580 BSP 1885
 BDE .2804 BRA .4426 BC3 .5494 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 546.8 SGR 607.3 SG3 222.5
 RRT .3799 RRF -.7292 RTF -.4693
 SGB 817.2 R23 -.1418 R13 -.7449
 SG1 681.8 SG2 450.6 THA 52.74

ORBIT DETERMINATION ACCURACY

ST 161.8 SR 270.2 SS 348.7
 CRT .5624 CRS -.7362 CST -.9551
 LSA 437.5 MSA 168.9 SSA 29.4
 EL1 289.0 EL2 125.1 ALF 66.79

LAUNCH DATE FEB 25 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 225.206

RL 148.10 LAL -.00 LOL 156.22 VL 28.152 GAL -9.62 AZL 90.12 HCA 102.11 SMA 132.75 ECC .20221 INC .1168 V1 30.086
 RP 108.65 LAP -.11 LOP 258.33 VP 37.990 GAP -5.20 AZP 89.98 TAL 226.08 TAP 328.19 RCA 105.91 APO 159.60 V2 34.878
 RC 67.198 GL -.58 GP 25.92 ZAL 155.50 ZAP 45.27 ETS 334.20 ZAE 146.84 ETE 43.13 ZAC 120.19 ETC 146.19 CLP -38.51

PLANETOCENTRIC CONIC

C3 31.471 VHL 5.610 DLA -.25 RAL .89 RAD 6568.3 VEL 12.363 PTH 2.23 VHP 5.158 DPA 36.73 RAP 26.86 ECC 1.5179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 39 2318.20 -21.94 48.15 229.73 108.36 1 47 17 1718.2 -19.23 40.53
 90.00 13 3 2 4977.50 22.27 218.11 229.88 72.04 14 25 59 4377.5 19.60 210.45
 100.00 2 29 53 2056.19 -23.12 28.45 229.29 109.49 3 4 9 1456.2 -20.25 20.83
 100.00 14 24 29 4714.75 23.45 198.36 229.45 70.91 15 43 4 4114.7 20.63 190.70
 110.00 3 37 51 1843.39 -26.30 10.95 227.94 112.67 4 8 35 1243.4 -23.00 3.35
 110.00 15 33 0 4500.31 26.63 180.75 228.12 67.74 16 48 0 3900.3 23.38 173.10

DIFFERENTIAL CORRECTIONS

TOE -.1308 TRA -.3136 TC3 .3569 BAU .2415
 RDE -.2179 RRA .3449 RC3 .4495 FAU .08259
 FDE -.8038 FRA -.9268 FC3-2.2720 BSP 1956
 BDE .2542 BRA .4661 BC3 .5740 FSP -704

MID-COURSE EXECUTION ACCURACY

SGT 529.9 SGR 654.2 SG3 245.4
 RRT .3430 RRF -.7730 RTF -.4040
 SGB 841.9 R23 -.1276 R13 -.7766
 SG1 703.0 SG2 463.2 THA 60.88

ORBIT DETERMINATION ACCURACY

ST 165.0 SR 246.8 SS 388.6
 CRT .4853 CRS -.7040 CST -.9455
 LSA 457.1 MSA 171.5 SSA 29.2
 EL1 264.7 EL2 134.6 ALF 65.22

LAUNCH DATE FEB 25 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 231.794

RL 148.10 LAL -.00 LOL 156.22 VL 28.204 GAL -9.56 AZL 90.31 HCA 105.28 SMA 133.14 ECC .19957 INC .3132 V1 30.086
 RP 108.68 LAP -.30 LOP 261.50 VP 38.019 GAP -4.55 AZP 89.92 TAL 226.73 TAP 332.02 RCA 106.57 APO 159.71 V2 34.867
 RC 69.360 GL -1.57 GP 27.71 ZAL 155.89 ZAP 49.50 ETS 336.32 ZAE 146.82 ETE 48.54 ZAC 118.32 ETC 146.23 CLP -42.81

PLANETOCENTRIC CONIC

C3 31.028 VHL 5.570 DLA -1.32 RAL .88 RAD 6568.2 VEL 12.345 PTH 2.23 VHP 4.924 DPA 37.89 RAP 24.74 ECC 1.5106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 36 2281.28 -21.13 45.75 229.16 109.30 1 54 37 1681.3 -18.30 38.22
 90.00 12 55 1 5007.30 22.88 220.08 229.97 72.84 14 18 29 4407.3 20.31 212.35
 100.00 2 37 19 2020.87 -22.30 26.15 228.71 110.44 3 11 0 1420.9 -19.32 18.62
 100.00 14 16 59 4742.94 24.07 200.23 229.55 71.71 15 36 2 4142.9 21.34 192.49
 110.00 3 44 9 1811.66 -25.45 8.87 227.32 113.63 4 14 21 1211.7 -22.03 1.38
 110.00 15 26 38 4524.91 27.26 182.39 228.27 68.53 16 42 3 3924.9 24.10 174.66

DIFFERENTIAL CORRECTIONS

TOE -.1346 TRA -.3340 TC3 .3175 BAU .2498
 RDE -.1843 RRA .3639 RC3 .5116 FAU .08913
 FDE -.9304 FRA -1.0036 FC3-2.4868 BSP 2047
 BDE .2282 BRA .4939 BC3 .6021 FSP -779

MID-COURSE EXECUTION ACCURACY

SGT 512.2 SGR 707.8 SG3 268.5
 RRT .2736 RRF -.8111 RTF -.3094
 SGB 873.7 R23 -.0967 R13 -.8105
 SG1 732.7 SG2 475.9 THA 70.14

ORBIT DETERMINATION ACCURACY

ST 172.9 SR 221.0 SS 429.4
 CRT .3885 CRS -.6510 CST -.9369
 LSA 482.4 MSA 172.0 SSA 28.9
 EL1 238.7 EL2 147.5 ALF 61.28

LAUNCH DATE FEB 25 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 238.347

RL 148.10 LAL -.00 LOL 156.22 VL 28.246 GAL -9.49 AZL 90.52 HCA 108.45 SMA 133.46 ECC .19728 INC .5154 V1 30.086
 RP 108.72 LAP -.49 LOP 264.67 VP 38.040 GAP -3.94 AZP 89.84 TAL 227.24 TAP 335.69 RCA 107.13 APO 159.78 V2 34.858
 RC 71.560 GL -2.60 GP 29.58 ZAL 156.13 ZAP 53.89 ETS 338.51 ZAE 146.64 ETE 54.47 ZAC 116.25 ETC 146.47 CLP -47.34

PLANETOCENTRIC CONIC

C3 30.630 VHL 5.534 DLA -2.40 RAL .99 RAD 6568.2 VEL 12.329 PTH 2.22 VHP 4.724 DPA 39.01 RAP 22.30 ECC 1.5041
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 1 2244.63 -20.29 43.39 228.77 110.19 2 2 26 1644.6 -17.35 35.95
 90.00 12 47 27 5037.48 23.47 222.09 230.21 73.68 14 11 25 4437.5 21.01 214.29
 100.00 2 45 15 1985.84 -21.45 23.89 228.29 111.33 3 18 21 1385.8 -18.36 16.46
 100.00 14 9 55 4771.50 24.66 202.14 229.81 72.55 15 29 26 4171.5 22.04 194.32
 110.00 3 50 56 1780.24 -24.58 6.85 226.86 114.54 4 20 36 1180.2 -21.06 359.47
 110.00 15 20 44 4549.87 27.87 184.08 228.58 69.35 16 36 33 3949.9 24.80 176.25

DIFFERENTIAL CORRECTIONS

TOE -.1427 TRA -.3596 TC3 .2668 BAU .2610
 RDE -.1461 RRA .3830 RC3 .5788 FAU .09553
 FDE -1.0664 FRA -1.0732 FC3-2.7000 BSP 2196
 BDE .2042 BRA .5254 BC3 .6373 FSP -860

MID-COURSE EXECUTION ACCURACY

SGT 497.9 SGR 768.6 SG3 291.6
 RRT .1663 RRF -.8440 RTF -.1817
 SGB 915.8 R23 -.0528 R13 -.8434
 SG1 776.0 SG2 486.3 THA 79.81

ORBIT DETERMINATION ACCURACY

ST 185.4 SR 193.4 SS 472.2
 CRT .2563 CRS -.5609 CST -.9302
 LSA 514.6 MSA 170.7 SSA 28.5
 EL1 212.6 EL2 163.0 ALF 49.66

LAUNCH DATE FEB 25 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 244.867

RL 148.10 LAL -.00 LOL 156.22 VL 28.278 GAL -9.43 AZL 90.73 MCA 111.62 SMA 133.70 ECC .19527 INC .7251 V1 30.086
 RP 108.74 LAP -.67 LOP 267.84 VP 38.055 GAP -3.35 AZP 89.73 TAL 227.61 TAP 339.23 RCA 107.59 APO 159.80 V2 34.848
 RC 73.792 GL -3.68 GP 31.50 ZAL 156.23 ZAP 58.42 ETS 340.82 ZAE 146.23 ETE 60.83 ZAC 114.01 ETC 146.91 CLP -52.11

PLANETOCENTRIC CONIC

C3 30.271 VHL 5.502 DLA -3.49 RAL 1.21 RAD 6568.2 VEL 12.314 PTH 2.22 VHP 4.559 DPA 40.07 RAP 19.56 ECC 1.4982
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 0 2207.91 -19.41 41.06 228.53 111.03 2 10 48 1607.9 -16.37 33.70
 90.00 12 40 15 5068.26 24.04 224.17 230.61 74.57 14 4 43 4468.3 21.69 216.28
 100.00 2 53 43 1950.77 -20.57 21.66 228.04 112.18 3 26 13 1350.8 -17.38 14.32
 100.00 14 3 13 4800.64 25.24 204.11 230.23 73.43 15 23 14 4200.6 22.73 196.21
 110.00 3 58 13 1748.83 -23.67 4.86 226.56 115.41 4 27 22 1148.8 -20.06 357.58
 110.00 15 15 12 4575.34 28.47 185.82 229.04 70.23 16 31 27 3975.3 25.51 177.89

DIFFERENTIAL CORRECTIONS

TDE -.1582 TRA -.3925 TC3 .2016 BAU .2748
 RDE -.1042 RRA .4003 RC3 .6485 FAU .10125
 FDE-1.2026 FRA-1.1264 FC3-2.8958 BSP 2365
 BDE .1894 BRA .5607 BC3 .6791 FSP -932

MID-COURSE EXECUTION ACCURACY

SGT 494.0 SGR 833.9 SG3 312.8
 RRT .0124 RRF -.8708 RTF -.0108
 SGB 969.3 R23 -.0059 R13 -.8708
 SG1 833.9 SG2 494.0 THA 89.35

ORBIT DETERMINATION ACCURACY

ST 205.6 SR 167.1 SS 513.9
 CRT .0764 CRS -.4114 CST -.9283
 LSA 552.6 MSA 167.7 SSA 28.0
 EL1 206.7 EL2 165.7 ALF 10.05

LAUNCH DATE FEB 25 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 251.352

RL 148.10 LAL -.00 LOL 156.22 VL 28.301 GAL -9.36 AZL 90.94 MCA 114.79 SMA 133.87 ECC .19351 INC .9440 V1 30.086
 RP 108.77 LAP -.86 LOP 271.01 VP 38.064 GAP -2.79 AZP 89.60 TAL 227.84 TAP 342.62 RCA 107.97 APO 159.78 V2 34.839
 RC 76.053 GL -4.82 GP 33.45 ZAL 156.17 ZAP 63.04 ETS 343.29 ZAE 145.53 ETE 67.48 ZAC 111.63 ETC 147.56 CLP -57.09

PLANETOCENTRIC CONIC

C3 29.944 VHL 5.472 DLA -4.59 RAL 1.55 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 4.428 DPA 41.04 RAP 16.56 ECC 1.4928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 36 2170.77 -18.48 38.73 228.45 111.84 2 19 47 1570.8 -15.36 31.45
 90.00 12 33 19 5099.96 24.60 226.32 231.16 75.51 13 58 19 4500.0 22.37 218.36
 100.00 3 2 47 1915.32 -19.64 19.44 227.94 113.00 3 34 43 1315.3 -16.36 12.18
 100.00 13 56 49 4830.64 25.81 206.16 230.80 74.37 15 17 19 4230.6 23.41 198.18
 110.00 4 6 6 1717.14 -22.73 2.88 226.42 116.24 4 34 43 1117.1 -19.02 355.71
 110.00 15 10 0 4601.59 29.06 187.63 229.66 71.15 16 26 41 4001.6 26.21 179.61

DIFFERENTIAL CORRECTIONS

TDE -.1804 TRA -.4305 TC3 .1238 BAU .2928
 RDE -.0576 RRA .4159 RC3 .7208 FAU .10624
 FDE-1.3411 FRA-1.1641 FC3-3.0715 BSP 2602
 BDE .1894 BRA .5986 BC3 .7313 FSP -1003

MID-COURSE EXECUTION ACCURACY

SGT 508.5 SGR 903.8 SG3 332.0
 RRT -.1725 RRF -.8929 RTF .1856
 SGB 1037.0 R23 .0359 R13 -.8928
 SG1 909.8 SG2 497.5 THA 97.93

ORBIT DETERMINATION ACCURACY

ST 232.6 SR 146.2 SS 556.6
 CRT -.1848 CRS -.1612 CST -.9297
 LSA 598.2 MSA 163.4 SSA 27.5
 EL1 235.1 EL2 142.2 ALF 169.49

LAUNCH DATE FEB 25 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 257.804

RL 148.10 LAL -.00 LOL 156.22 VL 28.316 GAL -9.29 AZL 91.17 MCA 117.95 SMA 133.99 ECC .19196 INC 1.1743 V1 30.086
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.068 GAP -2.26 AZP 89.45 TAL 227.94 TAP 345.89 RCA 108.27 APO 159.71 V2 34.831
 RC 78.340 GL -6.04 GP 35.41 ZAL 155.95 ZAP 67.70 ETS 345.94 ZAE 144.52 ETE 74.24 ZAC 109.16 ETC 148.41 CLP -62.25

PLANETOCENTRIC CONIC

C3 29.647 VHL 5.445 DLA -5.72 RAL 2.00 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 4.332 DPA 41.92 RAP 13.36 ECC 1.4879
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 57 2132.78 -17.50 36.37 228.53 112.62 2 29 30 1532.8 -14.29 29.17
 90.00 12 26 33 5132.96 25.14 228.59 231.86 76.52 13 52 6 4533.0 23.04 220.55
 100.00 3 12 35 1879.10 -18.66 17.19 228.00 113.78 3 43 54 1279.1 -15.29 10.02
 100.00 13 50 36 4861.87 26.36 208.31 231.53 75.37 15 11 38 4261.9 24.10 200.25
 110.00 4 14 38 1684.84 -21.75 .89 226.44 117.05 4 42 43 1084.8 -17.95 353.82
 110.00 15 5 2 4628.90 29.64 189.54 230.44 72.14 16 22 11 4028.9 26.92 181.42

DIFFERENTIAL CORRECTIONS

TDE -.2121 TRA -.4748 TC3 .0312 BAU .3140
 RDE -.0084 RRA .4269 RC3 .7916 FAU .10986
 FDE-1.4695 FRA-1.1754 FC3-3.2079 BSP 2867
 BDE .2123 BRA .6385 BC3 .7922 FSP -1056

MID-COURSE EXECUTION ACCURACY

SGT 550.5 SGR 973.2 SG3 347.1
 RRT -.3648 RRF -.9103 RTF .3846
 SGB 1118.1 R23 .0697 R13 -.9094
 SG1 1000.9 SG2 498.4 THA 105.63

ORBIT DETERMINATION ACCURACY

ST 269.2 SR 138.2 SS 596.6
 CRT -.4945 CRS .1794 CST -.9346
 LSA 649.4 MSA 158.3 SSA 26.9
 EL1 279.7 EL2 115.6 ALF 162.71

LAUNCH DATE FEB 25 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 264.222

RL 148.10 LAL -.00 LOL 156.22 VL 28.323 GAL -9.21 AZL 91.42 MCA 121.11 SMA 134.05 ECC .19057 INC 1.4183 V1 30.086
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.067 GAP -1.75 AZP 89.27 TAL 227.91 TAP 349.02 RCA 108.50 APO 159.59 V2 34.824
 RC 80.651 GL -7.34 GP 37.35 ZAL 155.56 ZAP 72.34 ETS 348.78 ZAE 143.16 ETE 80.94 ZAC 106.64 ETC 149.43 CLP -67.57

PLANETOCENTRIC CONIC

C3 29.382 VHL 5.421 DLA -6.89 RAL 2.56 RAD 6568.2 VEL 12.278 PTH 2.21 VHP 4.270 DPA 42.70 RAP 10.00 ECC 1.4836
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 10 2093.51 -16.46 33.96 228.76 113.37 2 40 4 1493.5 -13.16 26.84
 90.00 12 19 51 5167.73 25.67 231.00 232.74 77.62 13 45 59 4567.7 23.71 222.88
 100.00 3 23 13 1841.71 -17.62 14.90 228.23 114.55 3 53 55 1241.7 -14.16 7.82
 100.00 13 44 29 4894.76 26.91 210.60 232.42 76.46 15 6 4 4294.8 24.78 202.45
 110.00 4 23 57 1651.58 -20.70 358.87 226.62 -117.83 4 51 28 1051.6 -16.82 351.90
 110.00 15 0 15 4657.66 30.23 191.58 231.40 73.22 16 17 53 4057.7 27.63 183.35

DIFFERENTIAL CORRECTIONS

TDE -.2525 TRA -.5224 TC3 -.0731 BAU .3396
 RDE .0450 RRA .4341 RC3 .8615 FAU .11227
 FDE-1.5920 FRA-1.1663 FC3-3.3079 BSP 3207
 BDE .2565 BRA .5792 BC3 .8646 FSP -1105

MID-COURSE EXECUTION ACCURACY

SGT 622.0 SGR 1043.1 SG3 358.7
 RRT -.5298 RRF -.9244 RTF .5514
 SGB 1214.5 R23 .0949 R13 -.9224
 SG1 1108.4 SG2 496.5 THA 112.22

ORBIT DETERMINATION ACCURACY

ST 314.8 SR 149.3 SS 637.0
 CRT -.7643 CRS .5230 CST -.9411
 LSA 709.4 MSA 152.6 SSA 26.2
 EL1 336.6 EL2 90.0 ALF 158.46

LAUNCH DATE FEB 25 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 270.607

RL 148.10 LAL -0.00 LOL 156.22 VL 28.325 GAL -9.12 AZL 91.68 MCA 124.27 SMA 134.06 ECC .18932 INC 1.6791 V1 30.086
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.061 GAP -1.27 AZP 89.05 TAL 227.77 TAP 352.04 RCA 108.68 APO 159.43 V2 34.816
 RC 82.981 GL -8.73 GP 39.25 ZAL 155.01 ZAP 76.90 ETS 351.82 ZAE 141.49 ETE 87.40 ZAC 104.13 ETC 150.58 CLP -72.98

PLANETOCENTRIC CONIC

C3 29.151 VHL 5.399 DLA -8.11 RAL 3.25 RAD 6568.2 VEL 12.269 PTH 2.21 VHP 4.242 DPA 43.39 RAP 6.58 ECC 1.4798
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 25 2052.43 -15.33 31.47 229.17 114.10 2 51 38 1452.4 -11.95 24.43
 90.00 12 13 5 5204.86 26.19 233.59 233.79 78.82 13 39 50 4604.9 24.38 225.39
 100.00 3 34 51 1802.66 -16.50 12.55 228.62 115.29 4 4 53 1202.7 -12.96 5.54
 100.00 13 38 21 4929.87 27.44 213.08 233.50 77.66 15 0 30 4329.9 25.47 204.83
 110.00 4 34 9 1616.98 -19.59 356.80 226.96 118.59 5 1 6 1017.0 -15.62 349.93
 110.00 14 55 32 4688.32 30.81 193.78 232.54 74.40 16 13 40 4088.3 28.36 185.43

DIFFERENTIAL CORRECTIONS

TDE -.3043 TRA -.5735 TC3 -.1897 BAU .3679
 RDE .1001 RRA .4342 RC3 .9249 FAU .11286
 FDE -1.6957 FRA -1.1271 FC3 -3.3517 BSP 3568
 BOE .3203 BRA .7193 BC3 .9441 FSP -1128

MID-COURSE EXECUTION ACCURACY

SGT 723.9 SGR 1106.9 SG3 364.5
 RRT -.6551 RRF -.9354 RTF .6761
 SGB 1322.6 R23 .1145 R13 -.9321
 SG1 1227.2 SG2 493.4 THA 118.13

ORBIT DETERMINATION ACCURACY

ST 371.9 SR 178.0 SS 673.9
 CRT -.9099 CRS .7485 CST -.9484
 LSA 775.8 MSA 146.9 SSA 25.4
 EL1 406.7 EL2 67.5 ALF 155.76

LAUNCH DATE FEB 25 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 276.960

RL 148.10 LAL -0.00 LOL 156.22 VL 28.319 GAL -9.03 AZL 91.96 MCA 127.43 SMA 134.02 ECC .18819 INC 1.9602 V1 30.086
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.051 GAP -.80 AZP 88.81 TAL 227.51 TAP 354.94 RCA 108.80 APO 159.24 V2 34.810
 RC 85.328 GL -10.24 GP 41.11 ZAL 154.28 ZAP 81.31 ETS 355.06 ZAE 139.53 ETE 93.49 ZAC 101.67 ETC 151.84 CLP -78.44

PLANETOCENTRIC CONIC

C3 28.963 VHL 5.382 DLA -9.41 RAL 4.06 RAD 6568.2 VEL 12.261 PTH 2.21 VHP 4.247 DPA 44.00 RAP 3.16 ECC 1.4767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 55 2008.94 -14.11 28.86 229.77 114.81 3 4 24 1408.9 -10.64 21.90
 90.00 12 6 5 5245.11 26.69 236.43 235.05 80.16 13 33 30 4645.1 25.06 228.15
 100.00 3 47 39 1761.40 -15.28 10.09 229.19 116.01 4 17 0 1161.4 -11.66 3.17
 100.00 13 32 2 4967.88 27.97 215.78 234.78 78.99 14 54 50 4367.9 26.16 207.44
 110.00 4 45 23 1580.57 -18.39 354.66 227.49 119.34 5 11 44 980.6 -14.34 347.89
 110.00 14 50 47 4721.47 31.39 196.19 233.90 75.72 16 9 28 4121.5 29.11 187.72

DIFFERENTIAL CORRECTIONS

TDE -.3668 TRA -.6247 TC3 -.3144 BAU .3994
 RDE .1584 RRA .4284 RC3 .9825 FAU .11199
 FDE -1.7862 FRA -1.0670 FC3 -3.3476 BSP 3987
 BOE .3995 BRA .7575 BC3 1.0316 FSP -1143

MID-COURSE EXECUTION ACCURACY

SGT 849.4 SGR 1166.4 SG3 365.8
 RRT -.7423 RRF -.9443 RTF .7614
 SGB 1443.0 R23 .1293 R13 -.9398
 SG1 1357.5 SG2 489.1 THA 123.26

ORBIT DETERMINATION ACCURACY

ST 439.9 SR 220.6 SS 710.4
 CRT -.9708 CRS .8710 CST -.9554
 LSA 852.2 MSA 141.5 SSA 24.4
 EL1 489.8 EL2 47.5 ALF 153.78

LAUNCH DATE FEB 25 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 283.282

RL 148.10 LAL -0.00 LOL 156.22 VL 28.309 GAL -8.93 AZL 92.27 MCA 130.59 SMA 133.94 ECC .18717 INC 2.2659 V1 30.086
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.038 GAP -.36 AZP 88.53 TAL 227.15 TAP 357.73 RCA 108.87 APO 159.00 V2 34.804
 RC 87.691 GL -11.88 GP 42.92 ZAL 153.35 ZAP 85.52 ETS 358.47 ZAE 137.32 ETE 99.12 ZAC 99.30 ETC 153.16 CLP -83.87

PLANETOCENTRIC CONIC

C3 28.828 VHL 5.369 DLA -10.79 RAL 5.01 RAD 6568.2 VEL 12.256 PTH 2.20 VHP 4.287 DPA 44.58 RAP 359.79 ECC 1.4744
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 55 1962.32 -12.76 26.11 230.58 115.50 3 18 37 1362.3 -9.22 19.21
 90.00 11 58 39 5289.39 27.16 239.59 236.52 81.68 13 26 49 4689.4 25.73 231.21
 100.00 4 1 52 1717.29 -13.95 7.49 229.98 116.71 4 30 29 1117.3 -10.25 .65
 100.00 13 25 23 5009.65 28.47 218.78 236.29 80.49 14 48 53 4409.7 26.87 210.35
 110.00 4 57 53 1541.88 -17.08 352.42 228.22 120.07 5 23 34 941.9 -12.96 345.74
 110.00 14 45 52 4757.83 31.97 198.86 235.49 77.20 16 5 10 4157.8 29.88 190.27

DIFFERENTIAL CORRECTIONS

TDE -.4420 TRA -.6752 TC3 -.4459 BAU .4322
 RDE .2172 RRA .4137 RC3 1.0289 FAU .10926
 FDE -1.8531 FRA -.9800 FC3 -3.2813 BSP 4412
 BOE .4925 BRA .7919 BC3 1.1213 FSP -1131

MID-COURSE EXECUTION ACCURACY

SGT 994.9 SGR 1215.1 SG3 361.0
 RRT -.8008 RRF -.9513 RTF .8181
 SGB 1570.4 R23 .1422 R13 -.9453
 SG1 1493.7 SG2 484.7 THA 127.95

ORBIT DETERMINATION ACCURACY

ST 520.7 SR 270.2 SS 743.0
 CRT -.9914 CRS .9316 CST -.9618
 LSA 936.4 MSA 136.7 SSA 23.1
 EL1 585.8 EL2 31.4 ALF 152.69

LAUNCH DATE FEB 25 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 289.572

RL 148.10 LAL -0.00 LOL 156.22 VL 28.293 GAL -8.83 AZL 92.60 MCA 133.74 SMA 133.82 ECC .18623 INC 2.6018 V1 30.086
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.022 GAP .07 AZP 88.20 TAL 226.68 TAP .42 RCA 108.90 APO 158.74 V2 34.799
 RC 90.065 GL -13.69 GP 44.70 ZAL 152.22 ZAP 89.46 ETS 2.04 ZAE 134.92 ETE 104.25 ZAC 97.05 ETC 154.49 CLP -89.23

PLANETOCENTRIC CONIC

C3 28.764 VHL 5.363 DLA -12.29 RAL 6.11 RAD 6568.2 VEL 12.253 PTH 2.20 VHP 4.361 DPA 45.15 RAP 356.53 ECC 1.4734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 46 1911.68 -11.25 23.14 231.63 116.16 3 34 38 1311.7 -7.65 16.32
 90.00 11 50 34 5338.92 27.60 243.15 238.26 83.41 13 19 32 4738.9 26.40 234.69
 100.00 4 17 49 1669.54 -12.47 4.72 231.00 117.39 4 45 39 1069.5 -8.70 357.95
 100.00 13 18 12 5056.29 28.95 222.17 238.07 82.21 14 42 28 4456.3 27.57 213.63
 110.00 5 11 51 1500.30 -15.65 350.05 229.18 120.78 5 36 52 900.3 -11.45 343.46
 110.00 14 40 39 4798.30 32.54 201.88 237.37 78.91 16 0 37 4198.3 30.67 193.16

DIFFERENTIAL CORRECTIONS

TDE -.5305 TRA -.7219 TC3 -.5797 BAU .4658
 RDE .2775 RRA .3906 RC3 1.0635 FAU .10499
 FDE -1.8997 FRA -.8733 FC3 -3.1601 BSP 4852
 BOE .5987 BRA .8209 BC3 1.2112 FSP -1102

MID-COURSE EXECUTION ACCURACY

SGT 1153.7 SGR 1253.7 SG3 351.2
 RRT -.8398 RRF -.9570 RTF .8555
 SGB 1703.7 R23 .1538 R13 -.9494
 SG1 1634.6 SG2 480.4 THA 132.17

ORBIT DETERMINATION ACCURACY

ST 614.5 SR 324.8 SS 773.2
 CRT -.9971 CRS .9631 CST -.9674
 LSA 1030.9 MSA 132.9 SSA 21.6
 EL1 694.7 EL2 21.9 ALF 152.18

LAUNCH DATE FEB 25 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

RL 148.10 LAL -.00 LOL 156.22 VL 28.273 GAL -8.72 AZL 92.98 MCA 136.89 SMA 133.66 ECC .18536 INC 2.9750 V1 30.086
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.003 GAP .47 AZP 87.83 TAL 226.13 TAP 3.02 RCA 108.89 APO 158.44 V2 34.795
 RC 92.449 GL -15.68 GP 46.48 ZAL 150.86 ZAP 93.08 ETS 5.75 ZAE 132.37 ETE 108.88 ZAC 94.94 ETC 155.81 CLP -94.47

PLANETOCENTRIC CONIC

C3 28.797 VHL 5.366 DLA -13.92 RAL 7.37 RAD 6568.2 VEL 12.254 PTH 2.20 VHP 4.470 DPA 45.77 RAP 353.38 ECC 1.4739
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 57 1855.85 -9.56 19.92 232.98 116.78 3 52 53 1255.9 -5.89 13.16
 90.00 11 41 27 5395.32 27.97 247.23 240.30 85.42 13 11 22 4795.3 27.05 238.69
 100.00 4 35 56 1617.16 -10.81 1.71 232.32 118.04 5 2 53 1017.2 -6.98 355.02
 100.00 13 10 9 5109.25 29.38 226.04 240.15 84.21 14 35 19 4509.3 28.27 217.42
 110.00 5 27 40 1455.11 -14.06 347.52 230.42 121.48 5 51 55 855.1 -9.79 341.02
 110.00 14 34 54 4844.06 33.09 205.34 239.58 80.88 15 55 39 4244.1 31.48 196.48

DIFFERENTIAL CORRECTIONS

TDE -.6339 TRA -.7629 TC3 -.7120 BAU .5005 SGT 1321.5 SGR 1285.9 SG3 337.9 ST 722.5 SR 385.5 SS 804.1
 RDE .3418 RRA .3612 RC3 1.0876 FAU .09966 RRT -.8665 RRF -.9620 RTF .8812 CRT -.9974 CRS .9801 CST -.9723
 FDE -1.9338 FRA -.7584 FC3 -2.9960 BSP 5346 SGB 1843.9 R23 .1637 R13 -.9527 LSA 1140.1 MSA 130.3 SSA 19.9
 BDE .7202 BRA .8441 BC3 1.3000 FSP -1070 SG1 1781.3 SG2 476.2 THA 155.90 EL1 818.6 EL2 24.3 ALF 151.95

LAUNCH DATE FEB 25 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

RL 148.10 LAL -.00 LOL 156.22 VL 28.249 GAL -8.60 AZL 93.39 MCA 140.04 SMA 133.48 ECC .18457 INC 3.3948 V1 30.086
 RP 108.92 LAP -2.18 LOP 296.31 VP 37.982 GAP .86 AZP 87.40 TAL 225.49 TAP 5.53 RCA 108.84 APO 158.12 V2 34.791
 RC 94.840 GL -17.90 GP 48.29 ZAL 149.24 ZAP 96.34 ETS 9.60 ZAE 129.69 ETE 113.01 ZAC 92.98 ETC 157.09 CLP -99.55

PLANETOCENTRIC CONIC

C3 28.963 VHL 5.382 DLA -15.72 RAL 8.82 RAD 6568.2 VEL 12.261 PTH 2.21 VHP 4.617 DPA 46.47 RAP 350.33 ECC 1.4767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 6 1793.28 -7.62 16.34 234.70 117.35 4 14 0 1193.3 -3.90 9.64
 90.00 11 30 51 5460.77 28.24 252.00 242.68 87.80 13 1 52 4860.8 27.63 243.39
 100.00 4 56 46 1558.82 -8.92 358.41 234.00 118.65 5 22 45 958.8 -5.03 351.78
 100.00 13 0 52 5170.47 29.71 230.57 242.60 86.57 14 27 3 4570.5 28.92 221.85
 110.00 5 45 44 1405.45 -12.28 344.77 232.00 122.16 6 9 9 805.4 -7.94 338.36
 110.00 14 28 24 4896.60 33.58 209.36 242.19 83.21 15 50 1 4296.6 32.28 200.37

DIFFERENTIAL CORRECTIONS

TDE -.7548 TRA -.7958 TC3 -.8387 BAU .5347 SGT 1495.2 SGR 1308.0 SG3 320.8 ST 846.3 SR 449.2 SS 833.0
 RDE .4084 RRA .3231 RC3 1.0970 FAU .09317 RRT -.8845 RRF -.9662 RTF .8989 CRT -.9960 CRS .9895 CST -.9766
 FDE -1.9496 FRA -.6323 FC3 -2.7849 BSP 5844 SGB 1986.5 R23 .1735 R13 -.9552 LSA 1262.9 MSA 129.1 SSA 17.9
 BDE .8582 BRA .8589 BC3 1.3809 FSP -1023 SG1 1929.4 SG2 472.8 THA 139.31 EL1 957.5 EL2 35.3 ALF 152.09

LAUNCH DATE FEB 25 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

RL 148.10 LAL -.00 LOL 156.22 VL 28.221 GAL -8.47 AZL 93.87 MCA 143.19 SMA 133.27 ECC .18384 INC 3.8734 V1 30.086
 RP 108.93 LAP -2.32 LOP 299.47 VP 37.958 GAP 1.23 AZP 86.90 TAL 224.76 TAP 7.95 RCA 108.77 APO 157.77 V2 34.788
 RC 97.236 GL -20.38 GP 50.17 ZAL 147.33 ZAP 99.20 ETS 13.59 ZAE 126.91 ETE 116.69 ZAC 91.16 ETC 158.31 CLP -104.46

PLANETOCENTRIC CONIC

C3 29.316 VHL 5.414 DLA -17.72 RAL 10.49 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 4.807 DPA 47.30 RAP 347.34 ECC 1.4825
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 13 1721.66 -5.36 12.29 236.90 117.85 4 38 55 1121.7 -1.59 5.64
 90.00 11 18 3 5538.46 28.31 257.68 245.48 90.65 12 50 21 4938.5 28.10 249.02
 100.00 5 21 11 1492.68 -6.75 354.71 236.14 119.19 5 46 4 892.7 -2.80 348.14
 100.00 12 49 46 5242.67 29.89 235.92 245.48 89.38 14 17 9 4642.7 29.48 227.14
 110.00 6 6 40 1350.17 -10.26 341.77 234.01 122.79 6 29 10 750.2 -5.86 335.43
 110.00 14 20 46 4957.95 33.98 214.11 245.28 86.00 15 43 24 4357.9 33.05 204.99

DIFFERENTIAL CORRECTIONS

TDE -.8959 TRA -.8175 TC3 -.9537 BAU .5670 SGT 1670.4 SGR 1317.2 SG3 299.7 ST 986.9 SR 513.9 SS 858.4
 RDE .4767 RRA .2747 RC3 1.0877 FAU .08559 RRT -.8962 RRF -.9697 RTF .9111 CRT -.9943 CRS .9947 CST -.9801
 FDE -1.9454 FRA -.4967 FC3 -2.5274 BSP 6311 SGB 2127.2 R23 .1838 R13 -.9568 LSA 1399.3 MSA 129.3 SSA 15.8
 BDE 1.0148 BRA .8625 BC3 1.4466 FSP -956 SG1 2074.5 SG2 470.5 THA 142.49 EL1 1111.6 EL2 48.7 ALF 152.57

LAUNCH DATE FEB 25 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

RL 148.10 LAL -.00 LOL 156.22 VL 28.190 GAL -8.33 AZL 94.43 MCA 146.34 SMA 133.03 ECC .18316 INC 4.4280 V1 30.086
 RP 108.94 LAP -2.45 LOP 302.64 VP 37.933 GAP 1.59 AZP 86.31 TAL 223.96 TAP 10.30 RCA 108.67 APO 157.40 V2 34.786
 RC 99.636 GL -23.18 GP 52.18 ZAL 145.09 ZAP 101.62 ETS 17.73 ZAE 124.01 ETE 119.97 ZAC 89.46 ETC 159.49 CLP -109.19

PLANETOCENTRIC CONIC

C3 29.938 VHL 5.472 DLA -19.96 RAL 12.42 RAD 6568.2 VEL 12.301 PTH 2.22 VHP 5.047 DPA 48.29 RAP 344.35 ECC 1.4927
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 50 1637.29 -2.66 7.56 239.74 118.20 5 9 8 1037.3 1.13 .94
 90.00 11 1 48 5633.35 28.04 264.61 248.73 94.11 12 35 41 5033.3 28.32 255.95
 100.00 5 50 26 1415.93 -4.18 350.45 238.90 119.63 6 14 2 815.9 -.20 343.92
 100.00 12 35 54 5329.94 29.77 242.41 248.85 92.79 14 4 44 4729.9 29.84 233.60
 110.00 6 31 20 1287.75 -7.94 338.42 236.59 123.36 6 52 48 687.8 -3.49 332.15
 110.00 14 11 29 5030.88 34.18 219.79 248.95 89.36 15 35 20 4430.9 33.71 210.58

DIFFERENTIAL CORRECTIONS

TDE -1.0632 TRA -.8261 TC3 -1.0523 BAU .5984 SGT 1847.3 SGR 1320.2 SG3 276.9 ST 1147.6 SR 582.7 SS 884.1
 RDE .5511 RRA .2184 RC3 1.0620 FAU .07752 RRT -.9040 RRF -.9729 RTF .9204 CRT -.9927 CRS .9976 CST -.9833
 FDE -1.9314 FRA -.3636 FC3 -2.2416 BSP 6812 SGB 2270.6 R23 .1932 R13 -.9583 LSA 1555.9 MSA 130.9 SSA 13.6
 BDE 1.1976 BRA .8545 BC3 1.4950 FSP -888 SG1 2221.5 SG2 469.4 THA 145.37 EL1 1285.5 EL2 62.7 ALF 153.18

LAUNCH DATE FEB 25 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 15 1969

MELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 28.156 GAL -8.19 AZL 95.08 MCA 149.48 SMA 132.78 ECC .18253 INC 5.0821 V1 30.086
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.906 GAP 1.93 AZP 85.62 TAL 223.08 TAP 12.56 RCA 108.54 APO 157.01 V2 34.784
 RC 102.038 GL -26.34 GP 54.39 ZAL 142.46 ZAP 103.57 ETS 22.05 ZAE 120.99 ETE 122.93 ZAC 87.84 ETC 160.66 CLP-113.76

PLANETOCENTRIC CONIC
 C3 30.953 VHL 5.564 DLA -22.47 RAL 14.66 RAD 6568.2 VEL 12.342 PTH 2.23 VHP 5.348 DPA 49.48 RAP 341.25 ECC 1.5094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 48 1533.01 .70 1.75 243.50 118.31 5 47 21 933.0 4.48 355.10
 90.00 10 39 44 5754.36 27.14 273.34 252.44 98.40 12 15 39 5154.4 28.02 264.79
 100.00 6 26 40 1323.60 -1.06 345.38 242.52 119.88 6 48 44 723.6 2.92 338.85
 100.00 12 17 33 5439.00 29.14 250.45 252.75 96.98 13 48 12 4839.0 29.80 241.71
 110.00 7 1 1 1215.94 -5.23 334.62 239.93 123.83 7 21 17 615.9 -.75 328.40
 110.00 13 59 42 5119.42 34.03 226.70 253.27 93.44 15 25 1 4519.4 34.13 217.46

DIFFERENTIAL CORRECTIONS
 TOE-1.2633 TRA -.8164 TC3-1.1252 BAU .6265 SGT 2021.9 SGR 1310.6 SG3 251.7 ST 1329.9 SR 650.8 SS 906.1
 ROE .6292 RRA .1501 RC3 1.0128 FAU .06880 RRT -.9080 RRF -.9756 RTF .9272 CRT -.9914 CRS .9991 CST -.9860
 FDE-1.9017 FRA -.2292 FC3-1.9244 BSP 7270 SGB 2409.6 R23 .2028 R13 -.9594 LSA 1730.6 MSA 133.7 SSA 11.4
 BOE 1.4113 BRA .8301 BC3 1.5139 FSP -806 SG1 2363.3 SG2 469.9 THA 148.11 EL1 1478.6 EL2 76.8 ALF 154.05

LAUNCH DATE FEB 25 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 17 1969

MELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 28.119 GAL -8.03 AZL 95.87 MCA 152.62 SMA 132.50 ECC .18196 INC 5.8703 V1 30.086
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.878 GAP 2.26 AZP 84.78 TAL 222.14 TAP 14.76 RCA 108.39 APO 156.61 V2 34.783
 RC 104.441 GL -29.94 GP 56.84 ZAL 139.38 ZAP 105.00 ETS 26.58 ZAE 117.80 ETE 125.68 ZAC 86.26 ETC 161.87 CLP-118.25

PLANETOCENTRIC CONIC
 C3 32.563 VHL 5.706 DLA -25.30 RAL 17.29 RAD 6568.3 VEL 12.407 PTH 2.24 VHP 5.729 DPA 50.87 RAP 337.89 ECC 1.5359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 54 1390.04 5.29 353.75 248.72 117.86 6 40 4 790.0 8.98 347.01
 90.00 10 5 40 634.80 24.91 307.26 256.42 103.91 10 16 14 34.8 26.58 298.99
 100.00 7 14 18 1204.72 2.97 338.85 247.44 119.76 7 34 23 604.7 6.91 332.28
 100.00 11 50 57 5583.40 27.50 260.86 257.09 102.22 13 24 0 4983.4 28.90 252.34
 110.00 7 37 49 1130.93 -1.99 330.17 244.34 124.13 7 56 40 530.9 2.50 323.97
 110.00 13 35 55 5229.95 33.25 235.23 258.31 98.43 15 11 5 4629.9 34.06 226.08

DIFFERENTIAL CORRECTIONS
 TOE-1.5096 TRA -.7848 TC3-1.1659 BAU .6522 SGT 2197.2 SGR 1293.6 SG3 225.7 ST 1538.6 SR 718.7 SS 927.2
 ROE .7147 RRA .0711 RC3 .9406 FAU .05995 RRT -.9094 RRF -.9778 RTF .9334 CRT -.9903 CRS .9998 CST -.9884
 FDE-1.8645 FRA -.1036 FC3-1.5938 BSP 7761 SGB 2549.7 R23 .2104 R13 -.9608 LSA 1929.9 MSA 137.3 SSA 9.4
 BOE 1.6702 BRA .7880 BC3 1.4980 FSP -726 SG1 2305.7 SG2 471.8 THA 150.69 EL1 1695.8 EL2 90.4 ALF 155.10

LAUNCH DATE FEB 25 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 19 1969

MELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 28.080 GAL -7.87 AZL 96.84 MCA 155.75 SMA 132.21 ECC .18142 INC 6.8450 V1 30.086
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.849 GAP 2.57 AZP 83.75 TAL 221.13 TAP 16.88 RCA 108.23 APO 156.20 V2 34.783
 RC 106.844 GL -34.02 GP 59.62 ZAL 135.79 ZAP 105.88 ETS 31.44 ZAE 114.41 ETE 128.36 ZAC 84.65 ETC 163.24 CLP-122.76

PLANETOCENTRIC CONIC
 C3 35.108 VHL 5.925 DLA -28.48 RAL 20.43 RAD 6568.4 VEL 12.509 PTH 2.26 VHP 6.219 DPA 52.47 RAP 334.05 ECC 1.5778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.86 7 57 26 1116.76 16.12 339.18 258.21 113.79 8 16 3 516.8 19.20 331.85
 93.14 8 50 8 946.03 16.13 326.69 258.22 113.79 9 5 54 346.0 19.21 319.36
 100.00 8 27 59 1017.63 9.20 328.45 254.73 118.57 8 44 56 417.6 12.94 321.67
 100.00 11 2 17 5808.45 23.31 276.25 261.22 109.26 12 39 5 5208.4 25.72 268.28
 110.00 8 25 47 1024.54 2.07 324.62 250.37 124.13 8 42 51 424.5 6.54 318.38
 110.00 13 20 58 5374.30 31.29 246.02 263.95 104.53 14 50 33 4774.3 32.96 237.20

DIFFERENTIAL CORRECTIONS
 TOE-1.8190 TRA -.7220 TC3-1.1622 BAU .6724 SGT 2371.0 SGR 1260.3 SG3 198.7 ST 1775.5 SR 776.8 SS 943.3
 ROE .8027 RRA -.0244 RC3 .8376 FAU .05086 RRT -.9072 RRF -.9791 RTF .9389 CRT -.9894 CRS .9999 CST -.9905
 FDE-1.8148 FRA .0162 FC3-1.2541 BSP 8206 SGB 2685.1 R23 .2168 R13 -.9623 LSA 2150.7 MSA 141.6 SSA 7.5
 BOE 1.9882 BRA .7224 BC3 1.4326 FSP -636 SG1 2642.7 SG2 475.7 THA 153.32 EL1 1935.2 EL2 103.5 ALF 156.52

LAUNCH DATE FEB 25 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 21 1969

MELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 29.038 GAL -7.70 AZL 98.09 MCA 158.87 SMA 131.91 ECC .18093 INC 8.0888 V1 30.086
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.819 GAP 2.87 AZP 82.45 TAL 220.06 TAP 18.94 RCA 108.04 APO 155.77 V2 34.784
 RC 109.246 GL -38.64 GP 62.80 ZAL 131.61 ZAP 106.16 ETS 36.76 ZAE 110.73 ETE 131.21 ZAC 82.93 ETC 164.98 CLP-127.50

PLANETOCENTRIC CONIC
 C3 39.196 VHL 6.261 DLA -31.99 RAL 24.22 RAD 6568.5 VEL 12.671 PTH 2.30 VHP 6.867 DPA 54.23 RAP 329.43 ECC 1.6451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.45 6 37 33 1448.06 17.10 4.29 264.68 117.46 7 1 41 848.1 20.64 357.13
 105.55 10 40 14 670.41 17.12 306.71 264.69 117.45 10 51 25 70.4 20.66 299.55
 74.45 6 37 33 1448.06 17.10 4.29 264.68 117.46 7 1 41 848.1 20.64 357.13
 105.55 10 40 14 670.41 17.12 306.71 264.69 117.45 10 51 25 70.4 20.66 299.55
 110.00 9 36 19 868.75 7.98 316.42 259.21 123.35 9 50 48 268.8 12.31 310.01
 110.00 12 40 38 5585.75 26.73 260.77 269.47 112.15 14 13 44 4985.8 29.49 252.67

DIFFERENTIAL CORRECTIONS
 TOE-2.2229 TRA -.6164 TC3-1.1045 BAU .6863 SGT 2548.2 SGR 1208.0 SG3 171.7 ST 2044.5 SR 814.5 SS 955.6
 ROE .8882 RRA -.1373 RC3 .7038 FAU .04189 RRT -.9011 RRF -.9783 RTF .9454 CRT -.9883 CRS .9995 CST -.9925
 FDE-1.7590 FRA .1232 FC3 -.9253 BSP 8683 SGB 2820.0 R23 .2186 R13 -.9649 LSA 2394.9 MSA 145.7 SSA 5.9
 BOE 2.3938 BRA .6315 BC3 1.3097 FSP -551 SG1 2778.8 SG2 480.3 THA 156.11 EL1 2197.7 EL2 115.3 ALF 158.45

LAUNCH DATE FEB 25 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 344.903

RL 148.10 LAL -.00 LOL 156.22 VL 27.995 GAL -7.52 AZL 99.74 MCA 161.99 SMA 131.59 ECC .18047 INC 9.7410 V1 30.086
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.788 GAP 3.16 AZP 80.73 TAL 218.93 TAP 20.92 RCA 107.84 APO 155.34 V2 34.785
 RC 111.645 GL -43.81 GP 66.45 ZAL 126.80 ZAP 105.79 ETS 42.92 ZAE 106.66 ETE 134.67 ZAC 80.97 ETC 167.50 CLP-132.93

PLANETOCENTRIC CONIC

C3 46.007 VHL 6.783 CLA -35.79 RAL 28.86 RAD 6568.7 VEL 12.937 PTH 2.36 VHP 7.757 DPA 56.04 RAP 323.64 ECC 1.7572
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.13 6 11 13 1625.70 17.52 18.35 272.88 121.73 6 38 19 1025.7 21.58 11.45
 112.87 11 43 36 5861.56 17.53 277.34 272.89 121.72 13 21 18 5261.6 21.60 270.44
 67.13 6 11 13 1625.70 17.52 18.35 272.88 121.73 6 38 19 1025.7 21.58 11.45
 112.87 11 43 36 5861.56 17.53 277.34 272.89 121.72 13 21 18 5261.6 21.60 270.44
 67.13 6 11 13 1625.70 17.52 18.35 272.88 121.73 6 38 19 1025.7 21.58 11.45
 112.87 11 43 36 5861.56 17.53 277.34 272.89 121.72 13 21 18 5261.6 21.60 270.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.7682 TRA -.4404 TC3 -.9809 BAU .6874 SGT 2729.3 SGR 1114.3 SG3 144.9 ST 2342.7 SR 800.0 SS 960.5
 ROE .9413 RRA -.2745 RC3 .5356 FAU .03304 RRT -.8861 RRF -.9720 RTF .9532 CRT -.9862 CRS .9982 CST -.9943
 FDE-1.6945 FRA .2213 FC3 -.6218 BSP 9096 SGB 2948.0 R23 .2150 R13 -.9685 LSA 2651.2 MSA 149.1 SSA 4.5
 BOE 2.9238 BRA .5190 BC3 1.1176 FSP -461 SG1 2907.8 SG2 484.8 THA 159.52 EL1 2472.4 EL2 125.6 ALF 161.34

LAUNCH DATE FEB 25 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 350.897

RL 148.10 LAL -.00 LOL 156.22 VL 27.951 GAL -7.32 AZL 102.05 MCA 165.08 SMA 131.27 ECC .18003 INC12.0544 V1 30.086
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.757 GAP 3.43 AZP 78.34 TAL 217.73 TAP 22.81 RCA 107.63 APO 154.90 V2 34.787
 RC 114.042 GL -49.45 GP 70.64 ZAL 121.34 ZAP 104.73 ETS 50.74 ZAE 102.03 ETE 139.69 ZAC 78.62 ETC 171.74 CLP-140.09

PLANETOCENTRIC CONIC

C3 58.058 VHL 7.620 CLA -39.69 RAL 34.63 RAD 6569.1 VEL 13.395 PTH 2.45 VHP 9.043 DPA 57.68 RAP 316.10 ECC 1.9555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.95 6 2 51 1774.91 16.88 30.10 283.16 126.47 6 32 26 1174.9 21.51 23.61
 119.05 12 37 59 5827.85 16.89 274.13 283.18 126.46 14 15 7 5227.8 21.53 267.64
 60.95 6 2 51 1774.91 16.88 30.10 283.16 126.47 6 32 26 1174.9 21.51 23.61
 119.05 12 37 59 5827.85 16.89 274.13 283.18 126.46 14 15 7 5227.8 21.53 267.64
 60.95 6 2 51 1774.91 16.88 30.10 283.16 126.47 6 32 26 1174.9 21.51 23.61
 119.05 12 37 59 5827.85 16.89 274.13 283.18 126.46 14 15 7 5227.8 21.53 267.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.5414 TRA -.1473 TC3 -.7897 BAU .6681 SGT 2925.9 SGR 940.1 SG3 119.4 ST 2663.6 SR 671.7 SS 960.9
 ROE .8772 RRA -.4299 RC3 .3425 FAU .02463 RRT -.8449 RRF -.9452 RTF .9640 CRT -.9790 CRS .9933 CST -.9960
 FDE-1.6311 FRA .3081 FC3 -.3673 BSP 9545 SGB 3073.2 R23 .2011 R13 -.9740 LSA 2906.3 MSA 150.4 SSA 3.4
 BOE 3.6484 BRA .4544 BC3 .8608 FSP -379 SG1 3034.7 SG2 484.9 THA 164.40 EL1 2743.8 EL2 132.9 ALF 166.10

LAUNCH DATE FEB 25 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 356.836

RL 148.10 LAL -.00 LOL 156.22 VL 27.904 GAL -7.11 AZL 105.54 MCA 168.14 SMA 130.93 ECC .17957 INC15.5366 V1 30.086
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.725 GAP 3.68 AZP 74.78 TAL 216.46 TAP 24.60 RCA 107.42 APO 154.44 V2 34.790
 RC 116.435 GL -55.26 GP 75.29 ZAL 115.29 ZAP 102.96 ETS 62.48 ZAE 96.58 ETE 148.64 ZAC 75.58 ETC 180.08 CLP-152.07

PLANETOCENTRIC CONIC

C3 81.470 VHL 9.026 CLA -43.24 RAL 41.80 RAD 6569.6 VEL 14.241 PTH 2.59 VHP 11.036 DPA 58.66 RAP 306.18 ECC 2.3408
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.84 6 9 25 1916.12 14.59 40.42 295.72 131.17 6 41 21 1316.1 19.77 34.45
 124.16 13 28 41 5847.20 14.61 273.89 295.73 131.17 15 6 8 5247.2 19.78 267.92
 55.84 6 9 25 1916.12 14.59 40.42 295.72 131.17 6 41 21 1316.1 19.77 34.45
 124.16 13 28 41 5847.20 14.61 273.89 295.73 131.17 15 6 8 5247.2 19.78 267.92
 55.84 6 9 25 1916.12 14.59 40.42 295.72 131.17 6 41 21 1316.1 19.77 34.45
 124.16 13 28 41 5847.20 14.61 273.89 295.73 131.17 15 6 8 5247.2 19.78 267.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-4.6622 TRA -.3823 TC3 -.5338 BAU .6021 SGT 3130.2 SGR 596.5 SG3 95.7 ST 2961.3 SR 277.9 SS 961.9
 ROE .3737 RRA -.5531 RC3 .1437 FAU .01655 RRT -.5959 RRF -.7366 RTF .9780 CRT -.8709 CRS .9027 CST -.9976
 FDE-1.5807 FRA .3960 FC3 -.1759 BSP 9892 SGB 3186.5 R23 .1745 R13 -.9812 LSA 3122.4 MSA 148.7 SSA 2.5
 BOE 4.6771 BRA .6724 BC3 .5528 FSP -301 SG1 3150.8 SG2 475.9 THA 173.37 EL1 2971.2 EL2 136.2 ALF 175.32

LAUNCH DATE FEB 25 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 362.684

RL 148.10 LAL -.00 LOL 156.22 VL 27.857 GAL -6.88 AZL 111.36 MCA 171.13 SMA 130.59 ECC .17902 INC21.3564 V1 30.086
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.693 GAP 3.90 AZP 68.88 TAL 215.10 TAP 26.22 RCA 107.21 APO 153.97 V2 34.794
 RC 118.823 GL -60.42 GP 79.50 ZAL 108.83 ZAP 100.50 ETS 85.06 ZAE 89.74 ETE 168.58 ZAC 71.25 ETC 199.67 CLP-179.45

PLANETOCENTRIC CONIC

C3 134.114 VHL 11.581 CLA -45.54 RAL 50.46 RAD 6570.4 VEL 15.983 PTH 2.82 VHP 14.450 DPA 57.98 RAP 293.53 ECC 3.2072
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.72 6 31 52 2052.55 10.26 48.72 310.21 134.61 7 6 5 1452.6 15.82 43.22
 127.28 14 15 18 631.99 10.28 298.49 310.22 134.61 14 25 50 32.0 15.83 293.00
 52.72 6 31 52 2052.55 10.26 48.72 310.21 134.61 7 6 5 1452.6 15.82 43.22
 127.28 14 15 18 631.99 10.28 298.49 310.22 134.61 14 25 50 32.0 15.83 293.00
 52.72 6 31 52 2052.55 10.26 48.72 310.21 134.61 7 6 5 1452.6 15.82 43.22
 127.28 14 15 18 631.99 10.28 298.49 310.22 134.61 14 25 50 32.0 15.83 293.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-5.9389 TRA 1.3709 TC3 -.2385 BAU .4276 SGT 3142.6 SGR 951.9 SG3 75.4 ST 2952.7 SR 934.6 SS 989.2
 ROE-1.8855 RRA -.2680 RC3 .0001 FAU .00845 RRT .8550 RRF -.7988 RTF .9933 CRT .9873 CRS -.9805 CST -.9993
 FDE-1.5864 FRA .5109 FC3 -.0546 BSP 10251 SGB 3283.6 R23 -.1359 R13 .9888 LSA 3247.7 MSA 150.1 SSA 2.0
 BOE 6.2311 BRA 1.3969 BC3 .2385 FSP -238 SG1 3248.7 SG2 477.6 THA 14.85 EL1 3093.8 EL2 141.6 ALF 17.39

LAUNCH DATE FEB 25 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 368.332

RL 148.10 LAL -1.00 LOL 156.22 VL 27.808 GAL -6.60 AZL 122.74 HCA 173.94 SMA 130.24 ECC .17815 INC32.7406 V1 30.086
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.661 GAP 4.06 AZP 57.41 TAL 213.56 TAP 27.50 RCA 107.04 APO 153.45 V2 34.798
 RC 121.206 GL -62.63 GP 77.95 ZAL 102.34 ZAP 97.45 ETS 128.96 ZAE 80.02 ETE 210.00 ZAC 64.12 ETC 241.47 CLP 128.41

PLANETOCENTRIC CONIC

C3 283.032 VHL 16.824 OLA -44.50 RAL 59.71 RAD 6571.6 VEL 20.108 PTH 3.14 VHP 21.196 DPA 53.50 RAP 278.78 ECC 5.6580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.12 7 14 4 2156.09 4.53 52.57 325.07 134.31 7 50 0 1556.1 10.09 47.18
 125.88 14 46 54 763.11 4.54 304.89 325.09 134.31 14 59 37 163.1 10.10 299.50
 54.12 7 14 4 2156.09 4.53 52.57 325.07 134.31 7 50 0 1556.1 10.09 47.18
 125.88 14 46 54 763.11 4.54 304.89 325.09 134.31 14 59 37 163.1 10.10 299.50
 54.12 7 14 4 2156.09 4.53 52.57 325.07 134.31 7 50 0 1556.1 10.09 47.18
 125.88 14 46 54 763.11 4.54 304.89 325.09 134.31 14 59 37 163.1 10.10 299.50

DIFFERENTIAL CORRECTIONS

TOE -3.4442 TRA 2.3281 TC3 -.0185 BAU .2198
 RDE -8.0445 RRA 1.9922 RC3 .0551 FAU -.00272
 FDE -1.7490 FRA .7501 FC3 .0083 BSP 10461
 BDE 8.7508 BRA 3.0642 BC3 .0581 FSP -191

MID-COURSE EXECUTION ACCURACY

SGT 1617.2 SGR 2906.0 SG3 60.1
 RRT .9063 RRF .9784 RTF .9734
 SGB 3325.7 R23 -.1088 R13 .9937
 SG1 3269.8 SG2 607.4 THA 62.19

ORBIT DETERMINATION ACCURACY

ST 1219.5 SR 2754.5 SS 1108.5
 CRT .9850 CRS -.9972 CST -.9951
 LSA 3203.7 MSA 198.6 SSA 1.0
 EL1 3006.2 EL2 192.6 ALF 66.34

LAUNCH DATE FEB 25 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 373.350

RL 148.10 LAL -1.00 LOL 156.22 VL 27.759 GAL -6.18 AZL 149.78 HCA 176.16 SMA 129.89 ECC .17611 INC59.7760 V1 30.086
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.630 GAP 4.05 AZP 30.28 TAL 211.53 TAP 27.69 RCA 107.02 APO 152.77 V2 34.803
 RC 123.581 GL -55.25 GP 63.17 ZAL 96.71 ZAP 94.31 ETS 163.91 ZAE 62.89 ETE 242.03 ZAC 49.61 ETC 277.18 CLP 99.59

PLANETOCENTRIC CONIC

C3 842.284 VHL 29.022 OLA -34.71 RAL 66.18 RAD 6572.8 VEL 31.041 PTH 3.47 VHP 36.586 DPA 39.86 RAP 264.48 ECC14.8619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.03 8 50 53 2046.21 .08 39.74 336.05 124.71 9 24 59 1446.2 4.63 33.56
 110.97 14 1 44 1058.72 .10 325.95 336.06 124.71 14 19 23 458.7 4.65 319.77
 69.03 8 50 53 2046.21 .08 39.74 336.05 124.71 9 24 59 1446.2 4.63 33.56
 110.97 14 1 44 1058.72 .10 325.95 336.06 124.71 14 19 23 458.7 4.65 319.77
 69.03 8 50 53 2046.21 .08 39.74 336.05 124.71 9 24 59 1446.2 4.63 33.56
 110.97 14 1 44 1058.72 .10 325.95 336.06 124.71 14 19 23 458.7 4.65 319.77

DIFFERENTIAL CORRECTIONS

TOE 2.9495 TRA 1.3340 TC3 -.0441 BAU 2.1348
 RD -11.9460 RRA 6.7596 RC3 .1844 FAU -.03301
 FDE -2.2324 FRA 1.4418 FC3 .0339 BSP 9722
 BDE 12.3048 BRA 6.8900 BC3 .1896 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 712.2 SGR 3056.6 SG3 51.3
 RRT -.5177 RRF .9980 RTF -.4635
 SGB 3138.5 R23 -.0868 R13 .9962
 SG1 3079.7 SG2 604.8 THA 97.16

ORBIT DETERMINATION ACCURACY

ST 590.2 SR 2408.4 SS 1431.4
 CRT -.9333 CRS -.9996 CST .9230
 LSA 2855.1 MSA 214.6 SSA .4
 EL1 2471.0 EL2 206.5 ALF 102.98

LAUNCH DATE FEB 25 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 383.727

RL 148.10 LAL -1.00 LOL 156.22 VL 27.709 GAL -6.86 AZL 20.18 HCA 183.57 SMA 129.54 ECC .18576 INC69.8166 V1 30.086
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.598 GAP 5.53 AZP 159.78 TAL 213.18 TAP 36.75 RCA 105.48 APO 153.60 V2 34.808
 RC 125.948 GL 50.98 GP -58.00 ZAL 96.42 ZAP 95.18 ETS 181.95 ZAE 61.80 ETE 105.77 ZAC 72.53 ETC 75.35 CLP 99.81

PLANETOCENTRIC CONIC

C31104.509 VHL 33.234 OLA 66.99 RAL 25.74 RAD 6573.0 VEL 35.011 PTH 3.52 VHP 41.268 DPA -77.98 RAP 217.38 ECC19.1774
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.36 15 36 48 5075.53 .65 245.30 296.03 23.01 17 1 23 4475.5 -6.71 242.58
 153.64 1 53 8 3342.97 .66 99.00 296.01 23.01 2 48 51 2743.0 -6.70 96.27
 26.36 15 36 48 5075.53 .65 245.30 296.03 23.01 17 1 23 4475.5 -6.71 242.58
 153.64 1 53 8 3342.97 .66 99.00 296.01 23.01 2 48 51 2743.0 -6.70 96.27
 26.36 15 36 48 5075.53 .65 245.30 296.03 23.01 17 1 23 4475.5 -6.71 242.58
 153.64 1 53 8 3342.97 .66 99.00 296.01 23.01 2 48 51 2743.0 -6.70 96.27

DIFFERENTIAL CORRECTIONS

TOE -3.4387 TRA 1.5907 TC3 -.0881 BAU 3.1050
 RD -15.0586 RRA 1.2905 RC3 -.1909 FAU -.04657
 FDE 3.0520 FRA -.2391 FC3 .0365 BSP 9580
 BDE 15.4462 BRA 2.0483 BC3 .2103 FSP -165

MID-COURSE EXECUTION ACCURACY

SGT 1089.2 SGR 2945.3 SG3 50.9
 RRT .8358 RRF -.9996 RTF -.8230
 SGB 3140.2 R23 -.0819 R13 -.9965
 SG1 3088.0 SG2 570.3 THA 72.20

ORBIT DETERMINATION ACCURACY

ST 629.3 SR 2602.0 SS 1879.6
 CRT .9622 CRS 1.0000 CST .9607
 LSA 3266.6 MSA 169.7 SSA .8
 EL1 2671.8 EL2 166.9 ALF 76.85

LAUNCH DATE FEB 25 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 388.472

RL 148.10 LAL -1.00 LOL 156.22 VL 27.658 GAL -6.38 AZL 52.47 HCA 185.55 SMA 129.19 ECC .18308 INC37.5321 V1 30.086
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.566 GAP 5.43 AZP 127.40 TAL 211.00 TAP 36.55 RCA 105.54 APO 152.84 V2 34.815
 RC 128.306 GL 61.78 GP -74.67 ZAL 100.54 ZAP 99.04 ETS 203.23 ZAE 81.51 ETE 125.56 ZAC 89.93 ETC 98.76 CLP 126.45

PLANETOCENTRIC CONIC

C3 361.134 VHL 19.004 OLA 69.69 RAL 351.35 RAD 6572.0 VEL 21.964 PTH 3.23 VHP 23.370 DPA -80.32 RAP 82.49 ECC 6.9434
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.23 13 12 46 5007.14 -4.30 245.44 259.77 20.37 14 36 13 4407.1 -11.79 243.02
 156.77 23 38 54 3255.90 -4.29 95.77 259.75 20.37 24 33 10 2655.9 -11.78 93.35
 23.23 13 12 46 5007.14 -4.30 245.44 259.77 20.37 14 36 13 4407.1 -11.79 243.02
 156.77 23 38 54 3255.90 -4.29 95.77 259.75 20.37 24 33 10 2655.9 -11.78 93.35
 23.23 13 12 46 5007.14 -4.30 245.44 259.77 20.37 14 36 13 4407.1 -11.79 243.02
 156.77 23 38 54 3255.90 -4.29 95.77 259.75 20.37 24 33 10 2655.9 -11.78 93.35

DIFFERENTIAL CORRECTIONS

TOE 2.3254 TRA .1821 TC3 -.0221 BAU .5601
 RDE -6.6761 RRA 3.3156 RC3 -.1139 FAU -.00472
 FDE 1.5175 FRA -.5996 FC3 .0113 BSP 11242
 BDE 7.0695 BRA 3.3206 BC3 .1160 FSP -195

MID-COURSE EXECUTION ACCURACY

SGT 723.6 SGR 3539.8 SG3 60.0
 RRT -.3590 RRF -.9921 RTF .4673
 SGB 3613.1 R23 -.1047 R13 -.9937
 SG1 3549.7 SG2 673.5 THA 94.35

ORBIT DETERMINATION ACCURACY

ST 702.7 SR 2190.4 SS 976.2
 CRT -.8902 CRS .9971 CST -.9224
 LSA 2479.7 MSA 309.4 SSA 1.6
 EL1 2279.7 EL2 307.6 ALF 106.24

LAUNCH DATE FEB 25 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 393.996

RL 148.10 LAL -0.00 LOL 156.22 VL 27.607 GAL -6.06 AZL 65.81 HCA 188.30 SMA 128.83 ECC .18233 INC24.1933 V1 30.086
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.535 GAP 5.55 AZP 113.97 TAL 209.30 TAP 37.60 RCA 105.34 APO 152.32 V2 34.821
 RC 130.653 GL 61.80 GP -75.81 ZAL 105.05 ZAP 103.98 ETS 256.16 ZAE 92.42 ETE 177.65 ZAC 98.74 ETC 152.19 CLP 170.29

PLANETOCENTRIC CONIC

C3 162.977 VHL 12.766 OLA 65.59 RAL 343.82 RAD 6570.8 VEL 16.861 PTH 2.91 VHP 15.559 DPA -69.74 RAP 61.68 ECC 3.6822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.99 12 53 16 4882.52 -10.97 239.86 248.79 24.89 14 14 38 4282.5 -18.20 236.74
 152.01 22 58 19 3160.85 -10.96 95.36 248.77 24.89 23 51 0 2560.8 -18.20 92.24
 27.99 12 53 16 4882.52 -10.97 239.86 248.79 24.89 14 14 38 4282.5 -18.20 236.74
 152.01 22 58 19 3160.85 -10.96 95.36 248.77 24.89 23 51 0 2560.8 -18.20 92.24
 27.99 12 53 16 4882.52 -10.97 239.86 248.79 24.89 14 14 38 4282.5 -18.20 236.74
 152.01 22 58 19 3160.85 -10.96 95.36 248.77 24.89 23 51 0 2560.8 -18.20 92.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.6073 TRA-2.5155 TC3 -.1287 BAU .2890 SGT 3192.9 SGR 2061.5 SG3 75.4 ST 1814.7 SR 765.8 SS 700.8
 RDE -1.0563 RRA 1.8455 RC3 .0320 FAU .01085 RRT -.9528 RRF -.9311 RTF .9966 CRT -.9071 CRS .8881 CST -.9991
 FDE 1.0579 FRA -.6606 FC3 -.0576 BSP 11974 SGB 3800.6 R23 -.1492 R13 -.9872 LSA 2067.8 MSA 308.2 SSA 1.9
 BDE 3.7587 BRA 3.1199 BC3 .1327 FSP -247 SG1 3763.3 SG2 531.0 THA 147.68 EL1 1946.6 EL2 300.5 ALF 158.52

LAUNCH DATE FEB 25 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 399.736

RL 148.10 LAL -0.00 LOL 156.22 VL 27.555 GAL -5.77 AZL 72.36 HCA 191.27 SMA 128.48 ECC .18218 INC17.6354 V1 30.086
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.504 GAP 5.73 AZP 107.32 TAL 207.71 TAP 38.98 RCA 105.07 APO 151.88 V2 34.829
 RC 132.989 GL 58.60 GP -70.39 ZAL 109.02 ZAP 109.20 ETS 284.70 ZAE 99.89 ETE 204.88 ZAC 104.41 ETC 180.53 CLP-168.51

PLANETOCENTRIC CONIC

C3 94.692 VHL 9.731 OLA 61.50 RAL 345.58 RAD 6569.8 VEL 14.698 PTH 2.66 VHP 11.813 DPA -61.51 RAP 53.95 ECC 2.5584
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.82 13 11 41 4757.25 -16.90 233.07 246.09 29.92 14 30 59 4157.2 -23.78 229.14
 147.18 22 53 54 3073.11 -16.89 94.14 246.08 29.91 23 45 7 2473.1 -23.77 90.21
 32.82 13 11 41 4757.25 -16.90 233.07 246.09 29.92 14 30 59 4157.2 -23.78 229.14
 147.18 22 53 54 3073.11 -16.89 94.14 246.08 29.91 23 45 7 2473.1 -23.77 90.21
 32.82 13 11 41 4757.25 -16.90 233.07 246.09 29.92 14 30 59 4157.2 -23.78 229.14
 147.18 22 53 54 3073.11 -16.89 94.14 246.08 29.91 23 45 7 2473.1 -23.77 90.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.7288 TRA-2.7748 TC3 -.4549 BAU .5763 SGT 3884.2 SGR 512.6 SG3 94.8 ST 1907.1 SR 314.2 SS 658.5
 RDE .4881 RRA .3428 RC3 -.0183 FAU .02063 RRT -.4796 RRF -.3108 RTF .9803 CRT .5532 CRS -.6817 CST -.9866
 FDE 1.0071 FRA -.6865 FC3 -.1886 BSP 12325 SGB 3917.9 R23 -.1888 R13 -.9789 LSA 2023.1 MSA 277.0 SSA 2.5
 BDE 2.7721 BRA 2.7959 BC3 .4553 FSP -312 SG1 3892.1 SG2 448.9 THA 176.33 EL1 1915.2 EL2 260.6 ALF 5.31

LAUNCH DATE FEB 25 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 405.550

RL 148.10 LAL -0.00 LOL 156.22 VL 27.503 GAL -5.49 AZL 76.19 HCA 194.33 SMA 128.12 ECC .18231 INC13.8142 V1 30.086
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.473 GAP 5.93 AZP 103.40 TAL 206.16 TAP 40.49 RCA 104.76 APO 151.48 V2 34.837
 RC 135.313 GL 54.69 GP -64.13 ZAL 112.25 ZAP 114.36 ETS 294.35 ZAE 105.65 ETE 212.68 ZAC 108.77 ETC 189.47 CLP-160.98

PLANETOCENTRIC CONIC

C3 64.165 VHL 8.010 OLA 57.88 RAL 349.36 RAD 6569.2 VEL 13.621 PTH 2.49 VHP 9.755 DPA -54.41 RAP 49.45 ECC 2.0560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.16 13 37 48 4647.24 -21.31 226.09 245.20 34.80 14 55 16 4047.2 -27.80 221.36
 142.84 22 57 59 3004.08 -21.30 92.51 245.18 34.80 23 48 3 2404.1 -27.79 87.78
 37.16 13 37 48 4647.24 -21.31 226.09 245.20 34.80 14 55 16 4047.2 -27.80 221.36
 142.84 22 57 59 3004.08 -21.30 92.51 245.18 34.80 23 48 3 2404.1 -27.79 87.78
 37.16 13 37 48 4647.24 -21.31 226.09 245.20 34.80 14 55 16 4047.2 -27.80 221.36
 142.84 22 57 59 3004.08 -21.30 92.51 245.18 34.80 23 48 3 2404.1 -27.79 87.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.2239 TRA-2.5263 TC3 -.8265 BAU .7165 SGT 3979.1 SGR 536.0 SG3 115.7 ST 1889.8 SR 496.2 SS 665.0
 RDE .6931 RRA -.0495 RC3 -.1203 FAU .02860 RRT .5954 RRF .7616 RTF .9677 CRT .8629 CRS -.9486 CST -.9785
 FDE 1.0313 FRA -.6924 FC3 -.3858 BSP 12589 SGB 4015.0 R23 .2224 R13 .9697 LSA 2046.4 MSA 268.8 SSA 3.2
 BDE 2.3294 BRA 2.5268 BC3 .8352 FSP -381 SG1 3992.0 SG2 429.3 THA 4.64 EL1 1938.5 EL2 244.4 ALF 12.98

LAUNCH DATE FEB 25 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 411.394

RL 148.10 LAL -0.00 LOL 156.22 VL 27.451 GAL -5.21 AZL 78.68 HCA 197.42 SMA 127.77 ECC .18264 INC11.3202 V1 30.086
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.443 GAP 6.15 AZP 100.81 TAL 204.61 TAP 42.03 RCA 104.43 APO 151.10 V2 34.846
 RC 137.625 GL 50.82 GP -58.21 ZAL 114.72 ZAP 119.28 ETS 298.63 ZAE 110.29 ETE 214.64 ZAC 112.42 ETC 192.66 CLP-158.16

PLANETOCENTRIC CONIC

C3 47.917 VHL 6.922 OLA 54.73 RAL 353.47 RAD 6568.8 VEL 13.011 PTH 2.37 VHP 8.523 DPA -48.07 RAP 46.64 ECC 1.7886
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.98 14 4 40 4553.98 -24.33 219.39 244.84 39.32 15 20 34 3954.0 -30.40 213.94
 139.02 23 3 54 2953.67 -24.31 90.88 244.82 39.31 23 53 7 2353.7 -30.39 85.43
 40.98 14 4 40 4553.98 -24.33 219.39 244.84 39.32 15 20 34 3954.0 -30.40 213.94
 139.02 23 3 54 2953.67 -24.31 90.88 244.82 39.31 23 53 7 2353.7 -30.39 85.43
 40.98 14 4 40 4553.98 -24.33 219.39 244.84 39.32 15 20 34 3954.0 -30.40 213.94
 139.02 23 3 54 2953.67 -24.31 90.88 244.82 39.31 23 53 7 2353.7 -30.39 85.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9471 TRA-2.3096 TC3 -1.2321 BAU .8010 SGT 4058.4 SGR 660.9 SG3 136.3 ST 1893.8 SR 557.3 SS 675.9
 RDE .6690 RRA -.1450 RC3 -.2131 FAU .03546 RRT .7769 RRF .9068 RTF .9580 CRT .9047 CRS -.9777 CST -.9739
 FDE 1.0510 FRA -.6778 FC3 -.6407 BSP 12984 SGB 4111.8 R23 .2458 R13 .9613 LSA 2070.2 MSA 261.4 SSA 4.1
 BDE 2.0588 BRA 2.3142 BC3 1.2504 FSP -455 SG1 4091.1 SG2 412.8 THA 7.29 EL1 1960.7 EL2 229.4 ALF 15.12

LAUNCH DATE FEB 25 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 417.248

RL 148.10 LAL -1.00 LOL 156.22 VL 27.399 GAL -4.93 AZL 80.44 MCA 200.55 SMA 127.42 ECC .18311 INC 9.5612 V1 30.086
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.413 GAP 6.36 AZP 98.96 TAL 203.05 TAP 43.59 RCA 104.08 APO 150.75 V2 34.855
 RC 139.923 GL 47.22 GP -52.84 ZAL 116.49 ZAP 123.84 ETS 301.05 ZAE 114.07 ETE 214.46 ZAC 115.64 ETC 193.76 CLP-157.22

PLANETOCENTRIC CONIC

C3 38.167 VHL 6.178 DLA 52.03 RAL 357.49 RAD 6568.5 VEL 12.631 PTH 2.29 VHP 7.747 DPA -42.35 RAP 44.90 ECC 1.6281
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.34 14 30 35 4475.00 -26.30 213.19 244.81 43.34 15 45 10 3875.0 -31.97 207.15
 135.66 23 10 5 2918.06 -26.29 89.45 244.80 43.34 23 58 43 2318.1 -31.96 83.41
 44.34 14 30 35 4475.00 -26.30 213.19 244.81 43.34 15 45 10 3875.0 -31.97 207.15
 135.66 23 10 5 2918.06 -26.29 89.45 244.80 43.34 23 58 43 2318.1 -31.96 83.41
 44.34 14 30 35 4475.00 -26.30 213.19 244.81 43.34 15 45 10 3875.0 -31.97 207.15
 135.66 23 10 5 2918.06 -26.29 89.45 244.80 43.34 23 58 43 2318.1 -31.96 83.41

DIFFERENTIAL CORRECTIONS

TDE 1.7638 TRA-2.1364 TC3-1.6658 BAU .8626
 RDE .6025 RRA -.1590 RC3 -.2882 FAU .04132
 FDE 1.0467 FRA -.6453 FC3 -.9373 BSP 13527
 BDE 1.8639 BRA 2.1423 BC3 1.6905 FSP -533

MID-COURSE EXECUTION ACCURACY

SGT 4157.0 SGR 704.6 SG3 155.3
 RRT .8258 RRF .9381 RTF .9509
 SGB 4216.3 R23 .2586 R13 .9544
 SG1 4197.9 SG2 393.5 THA 8.04

ORBIT DETERMINATION ACCURACY

ST 1900.8 SR 563.5 SS 678.8
 CRT .9189 CRS -.9865 CST -.9710
 LSA 2080.2 MSA 253.2 SSA 5.1
 EL1 1970.9 EL2 214.4 ALF 15.43

LAUNCH DATE FEB 25 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 423.109

RL 148.10 LAL -1.00 LOL 156.22 VL 27.346 GAL -4.64 AZL 81.75 MCA 203.68 SMA 127.07 ECC .18372 INC 8.2492 V1 30.086
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.384 GAP 6.58 AZP 97.56 TAL 201.47 TAP 45.15 RCA 103.72 APO 150.41 V2 34.865
 RC 142.207 GL 43.92 GP -48.06 ZAL 117.61 ZAP 128.01 ETS 302.71 ZAE 117.15 ETE 213.34 ZAC 118.56 ETC 193.96 CLP-157.14

PLANETOCENTRIC CONIC

C3 31.782 VHL 5.638 DLA 49.71 RAL 1.37 RAD 6568.3 VEL 12.376 PTH 2.23 VHP 7.243 DPA -37.20 RAP 43.93 ECC 1.5231
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.27 14 55 14 4407.41 -27.56 207.60 245.12 46.84 16 8 41 3807.4 -32.86 201.08
 132.73 23 16 20 2893.25 -27.55 88.30 245.10 46.83 24 4 33 2293.3 -32.85 81.77
 47.27 14 55 14 4407.41 -27.56 207.60 245.12 46.84 16 8 41 3807.4 -32.86 201.08
 132.73 23 16 20 2893.25 -27.55 88.30 245.10 46.83 24 4 33 2293.3 -32.85 81.77
 47.27 14 55 14 4407.41 -27.56 207.60 245.12 46.84 16 8 41 3807.4 -32.86 201.08
 132.73 23 16 20 2893.25 -27.55 88.30 245.10 46.83 24 4 33 2293.3 -32.85 81.77

DIFFERENTIAL CORRECTIONS

TDE 1.6818 TRA-1.9377 TC3-2.0536 BAU .8830
 RDE .5534 RRA -.1274 RC3 -.3186 FAU .04402
 FDE 1.0613 FRA -.5526 FC3-1.1992 BSP 12841
 BDE 1.7706 BRA 1.9418 BC3 2.0782 FSP -519

MID-COURSE EXECUTION ACCURACY

SGT 4190.2 SGR 696.7 SG3 167.2
 RRT .8230 RRF .9390 RTF .9395
 SGB 4247.7 R23 .2797 R13 .9432
 SG1 4229.6 SG2 392.1 THA 7.86

ORBIT DETERMINATION ACCURACY

ST 1939.4 SR 565.8 SS 694.8
 CRT .9269 CRS -.9913 CST -.9680
 LSA 2121.4 MSA 252.3 SSA 6.1
 EL1 2009.8 EL2 204.9 ALF 15.29

LAUNCH DATE FEB 25 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 428.963

RL 148.10 LAL -1.00 LOL 156.22 VL 27.294 GAL -4.34 AZL 82.77 MCA 206.83 SMA 126.72 ECC .18447 INC 7.2284 V1 30.086
 RP 108.66 LAP -3.26 LOP 356.50 VP 37.355 GAP 6.80 AZP 96.46 TAL 199.88 TAP 46.71 RCA 103.34 APO 150.09 V2 34.875
 RC 144.478 GL 40.93 GP -43.84 ZAL 118.17 ZAP 131.79 ETS 303.96 ZAE 119.63 ETE 211.79 ZAC 121.27 ETC 193.73 CLP-157.51

PLANETOCENTRIC CONIC

C3 27.326 VHL 5.227 DLA 47.73 RAL 5.12 RAD 6568.1 VEL 12.194 PTH 2.19 VHP 6.914 DPA -32.56 RAP 43.52 ECC 1.4497
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.82 15 18 44 4348.81 -28.35 202.59 245.76 49.84 16 31 13 3748.8 -33.32 195.70
 130.18 23 22 44 2876.23 -28.34 87.41 245.75 49.83 24 10 40 2276.2 -33.31 80.51
 49.82 15 18 44 4348.81 -28.35 202.59 245.76 49.84 16 31 13 3748.8 -33.32 195.70
 130.18 23 22 44 2876.23 -28.34 87.41 245.75 49.83 24 10 40 2276.2 -33.31 80.51
 49.82 15 18 44 4348.81 -28.35 202.59 245.76 49.84 16 31 13 3748.8 -33.32 195.70
 130.18 23 22 44 2876.23 -28.34 87.41 245.75 49.83 24 10 40 2276.2 -33.31 80.51

DIFFERENTIAL CORRECTIONS

TDE 1.5735 TRA-1.8082 TC3-2.5142 BAU .9278
 RDE .4927 RRA -.1123 RC3 -.3578 FAU .04762
 FDE 1.0168 FRA -.4921 FC3-1.5086 BSP 13582
 BDE 1.6489 BRA 1.8117 BC3 2.5396 FSP -589

MID-COURSE EXECUTION ACCURACY

SGT 4308.9 SGR 682.0 SG3 180.7
 RRT .8351 RRF .9387 RTF .9357
 SGB 4362.6 R23 .2752 R13 .9389
 SG1 4346.7 SG2 371.9 THA 7.59

ORBIT DETERMINATION ACCURACY

ST 1939.6 SR 543.0 SS 681.7
 CRT .9314 CRS -.9936 CST -.9662
 LSA 2112.4 MSA 243.6 SSA 7.3
 EL1 2005.1 EL2 191.2 ALF 14.75

LAUNCH DATE FEB 25 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 434.813

RL 148.10 LAL -1.00 LOL 156.22 VL 27.242 GAL -4.04 AZL 83.59 MCA 209.98 SMA 126.37 ECC .18535 INC 6.4076 V1 30.086
 RP 108.63 LAP -3.20 LOP 356.50 VP 37.327 GAP 7.02 AZP 95.56 TAL 198.28 TAP 48.26 RCA 102.95 APO 149.80 V2 34.885
 RC 146.734 GL 38.19 GP -40.13 ZAL 118.22 ZAP 135.20 ETS 304.98 ZAE 121.64 ETE 210.08 ZAC 123.82 ETC 193.30 CLP-158.12

PLANETOCENTRIC CONIC

C3 24.054 VHL 4.905 DLA 46.05 RAL 8.79 RAD 6568.0 VEL 12.060 PTH 2.16 VHP 6.702 DPA -28.39 RAP 43.54 ECC 1.3959
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.03 15 41 16 4297.51 -28.84 198.15 246.74 52.40 16 52 53 3697.5 -33.51 190.97
 127.97 23 29 32 2864.52 -28.83 86.74 246.73 52.39 24 17 16 2264.5 -33.50 79.56
 52.03 15 41 16 4297.51 -28.84 198.15 246.74 52.40 16 52 53 3697.5 -33.51 190.97
 127.97 23 29 32 2864.52 -28.83 86.74 246.73 52.39 24 17 16 2264.5 -33.50 79.56
 52.03 15 41 16 4297.51 -28.84 198.15 246.74 52.40 16 52 53 3697.5 -33.51 190.97
 127.97 23 29 32 2864.52 -28.83 86.74 246.73 52.39 24 17 16 2264.5 -33.50 79.56

DIFFERENTIAL CORRECTIONS

TDE 1.5020 TRA-1.6702 TC3-2.9606 BAU .9597
 RDE .4473 RRA -.0912 RC3 -.3761 FAU .04957
 FDE .9736 FRA -.4096 FC3-1.7839 BSP 13942
 BDE 1.5672 BRA 1.6726 BC3 2.9844 FSP -624

MID-COURSE EXECUTION ACCURACY

SGT 4406.4 SGR 657.8 SG3 189.9
 RRT .8348 RRF .9307 RTF .9309
 SGB 4455.2 R23 .2696 R13 .9337
 SG1 4440.7 SG2 359.4 THA 7.15

ORBIT DETERMINATION ACCURACY

ST 1948.8 SR 524.7 SS 670.2
 CRT .9356 CRS -.9955 CST -.9643
 LSA 2113.3 MSA 236.9 SSA 8.6
 EL1 2010.2 EL2 179.6 ALF 14.26

LAUNCH DATE FEB 25 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 440.657

RL 148.10 LAL -.00 LOL 156.22 VL 27.189 GAL -3.72 AZL 84.27 HCA 213.14 SMA 126.03 ECC .18636 INC 5.7295 V1 30.086
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.299 GAP 7.24 AZP 94.80 TAL 196.66 TAP 49.81 RCA 102.55 APO 149.52 V2 34.897
 RC 148.977 GL 35.69 GP -36.88 ZAL 117.82 ZAP 138.26 ETS 305.82 ZAE 123.25 ETE 208.35 ZAC 126.26 ETC 192.78 CLP-158.87

PLANETOCENTRIC CONIC

C3 21.559 VHL 4.643 DLA 44.62 RAL 12.44 RAD 6567.9 VEL 11.956 PTH 2.13 VHP 6.572 DPA -24.63 RAP 43.90 ECC 1.3548
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.96 16 3 2 4252.19 -29.13 194.20 248.06 54.58 17 13 54 3652.2 -33.54 186.79
 126.04 23 36 52 2856.55 -29.12 86.25 248.05 54.57 24 24 29 2256.5 -33.53 78.85
 53.96 16 3 2 4252.19 -29.13 194.20 248.06 54.58 17 13 54 3652.2 -33.54 186.79
 126.04 23 36 52 2856.55 -29.12 86.25 248.05 54.57 24 24 29 2256.5 -33.53 78.85
 53.96 16 3 2 4252.19 -29.13 194.20 248.06 54.58 17 13 54 3652.2 -33.54 186.79
 126.04 23 36 52 2856.55 -29.12 86.25 248.05 54.57 24 24 29 2256.5 -33.53 78.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4495 TRA-1.5309 TC3-3.4019 BAU .9866 SGT 4496.9 SGR 632.1 SG3 196.1 ST 1960.1 SR 509.8 SS 657.2
 RDE .4120 RRA -.0710 RC3 -.3822 FAU .05044 RRT .8292 RRF .9180 RTF .9264 CRT .9403 CRS -.9971 CST -.9626
 FDE .9272 FRA -.3192 FC3-2.0256 BSP 14215 SGB 4541.1 R23 .2597 R13 .9288 LSA 2116.8 MSA 230.3 SSA 10.0
 BOE 1.5069 BRA 1.5326 BC3 3.4233 FSP -643 SG1 4527.5 SG2 350.9 THA 6.69 EL1 2018.3 EL2 168.5 ALF 13.84

LAUNCH DATE FEB 25 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 446.493

RL 148.10 LAL -.00 LOL 156.22 VL 27.137 GAL -3.40 AZL 84.84 HCA 216.31 SMA 125.70 ECC .18752 INC 5.1570 V1 30.086
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.272 GAP 7.47 AZP 94.16 TAL 195.03 TAP 51.34 RCA 102.13 APO 149.27 V2 34.908
 RC 151.204 GL 33.37 GP -34.02 ZAL 117.01 ZAP 141.02 ETS 306.52 ZAE 124.56 ETE 206.68 ZAC 128.62 ETC 192.24 CLP-159.70

PLANETOCENTRIC CONIC

C3 19.600 VHL 4.427 DLA 43.39 RAL 16.11 RAD 6567.8 VEL 11.874 PTH 2.11 VHP 6.499 DPA -21.24 RAP 44.53 ECC 1.3226
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.64 16 24 15 4211.93 -29.30 190.68 249.70 56.44 17 34 27 3611.9 -33.48 183.11
 124.36 23 44 54 2851.26 -29.29 85.90 249.69 56.43 24 32 25 2251.3 -33.47 78.33
 55.64 16 24 15 4211.93 -29.30 190.68 249.70 56.44 17 34 27 3611.9 -33.48 183.11
 124.36 23 44 54 2851.26 -29.29 85.90 249.69 56.43 24 32 25 2251.3 -33.47 78.33
 55.64 16 24 15 4211.93 -29.30 190.68 249.70 56.44 17 34 27 3611.9 -33.48 183.11
 124.36 23 44 54 2851.26 -29.29 85.90 249.69 56.43 24 32 25 2251.3 -33.47 78.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.4069 TRA-1.3926 TC3-3.8453 BAU 1.0125 SGT 4588.8 SGR 608.7 SG3 200.4 ST 1969.6 SR 497.5 SS 641.1
 RDE .3837 RRA -.0538 RC3 -.3825 FAU .05067 RRT .8216 RRF .9019 RTF .9229 CRT .9456 CRS -.9983 CST -.9610
 FDE .8759 FRA -.2286 FC3-2.2380 BSP 14529 SGB 4629.0 R23 .2445 R13 .9249 LSA 2118.5 MSA 223.1 SSA 11.5
 BOE 1.4583 BRA 1.3936 BC3 3.8642 FSP -658 SG1 4616.1 SG2 344.9 THA 6.25 EL1 2025.3 EL2 157.4 ALF 13.52

LAUNCH DATE FEB 25 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 452.320

RL 148.10 LAL -.00 LOL 156.22 VL 27.086 GAL -3.06 AZL 85.34 HCA 219.48 SMA 125.36 ECC .18882 INC 4.6643 V1 30.086
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.245 GAP 7.70 AZP 93.60 TAL 193.38 TAP 52.86 RCA 101.69 APO 149.03 V2 34.920
 RC 153.416 GL 31.20 GP -31.52 ZAL 115.83 ZAP 143.50 ETS 307.08 ZAE 125.61 ETE 205.09 ZAC 130.93 ETC 191.71 CLP-160.57

PLANETOCENTRIC CONIC

C3 18.030 VHL 4.246 DLA 42.32 RAL 19.82 RAD 6567.7 VEL 11.807 PTH 2.09 VHP 6.471 DPA -18.17 RAP 45.39 ECC 1.2967
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.13 16 45 10 4175.90 -29.38 187.55 251.65 58.05 17 54 46 3575.9 -33.37 179.84
 122.87 23 53 40 2848.02 -29.37 85.67 251.65 58.04 24 41 8 2248.0 -33.36 77.96
 57.13 16 45 10 4175.90 -29.38 187.55 251.65 58.05 17 54 46 3575.9 -33.37 179.84
 122.87 23 53 40 2848.02 -29.37 85.67 251.65 58.04 24 41 8 2248.0 -33.36 77.96
 57.13 16 45 10 4175.90 -29.38 187.55 251.65 58.05 17 54 46 3575.9 -33.37 179.84
 122.87 23 53 40 2848.02 -29.37 85.67 251.65 58.04 24 41 8 2248.0 -33.36 77.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.3727 TRA-1.2511 TC3-4.2839 BAU 1.0366 SGT 4677.6 SGR 588.2 SG3 202.7 ST 1977.9 SR 488.4 SS 623.3
 RDE .3615 RRA -.0387 RC3 -.3780 FAU .05029 RRT .8115 RRF .8826 RTF .9199 CRT .9515 CRS -.9991 CST -.9594
 FDE .8231 FRA -.1381 FC3-2.4147 BSP 14823 SGB 4714.4 R23 .2262 R13 .9216 LSA 2119.6 MSA 215.4 SSA 13.1
 BOE 1.4195 BRA 1.2517 BC3 4.3006 FSP -665 SG1 4702.0 SG2 342.0 THA 5.86 EL1 2032.1 EL2 146.2 ALF 13.29

LAUNCH DATE FEB 25 1969

FLIGHT TIME 156.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 458.138

RL 148.10 LAL -.00 LOL 156.22 VL 27.034 GAL -2.72 AZL 85.77 HCA 222.65 SMA 125.03 ECC .19027 INC 4.2334 V1 30.086
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.219 GAP 7.93 AZP 93.12 TAL 191.72 TAP 54.38 RCA 101.24 APO 148.82 V2 34.932
 RC 155.612 GL 29.14 GP -29.31 ZAL 114.31 ZAP 145.76 ETS 307.50 ZAE 126.47 ETE 203.63 ZAC 133.22 ETC 191.19 CLP-161.45

PLANETOCENTRIC CONIC

C3 16.755 VHL 4.093 DLA 41.39 RAL 23.63 RAD 6567.7 VEL 11.753 PTH 2.07 VHP 6.475 DPA -15.38 RAP 46.43 ECC 1.2757
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.45 17 5 58 4143.42 -29.39 184.73 253.91 59.44 18 15 2 3543.4 -33.21 176.91
 121.55 0 7 6 2846.54 -29.38 85.55 253.90 59.42 0 54 33 2246.5 -33.20 77.73
 58.45 17 5 58 4143.42 -29.39 184.73 253.91 59.44 18 15 2 3543.4 -33.21 176.91
 121.55 0 7 6 2846.54 -29.38 85.55 253.90 59.42 0 54 33 2246.5 -33.20 77.73
 58.45 17 5 58 4143.42 -29.39 184.73 253.91 59.44 18 15 2 3543.4 -33.21 176.91
 121.55 0 7 6 2846.54 -29.38 85.55 253.90 59.42 0 54 33 2246.5 -33.20 77.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.3471 TRA-1.1031 TC3-4.7078 BAU 1.0578 SGT 4758.7 SGR 571.3 SG3 203.2 ST 1987.5 SR 482.9 SS 605.9
 RDE .3448 RRA -.0249 RC3 -.3691 FAU .04934 RRT .7984 RRF .8606 RTF .9171 CRT .9583 CRS -.9992 CST -.9579
 FDE .7722 FRA -.0476 FC3-2.5497 BSP 15050 SGB 4792.9 R23 .2070 R13 .9185 LSA 2123.0 MSA 207.5 SSA 14.8
 BOE 1.3906 BRA 1.1034 BC3 4.7223 FSP -663 SG1 4780.6 SG2 342.5 THA 5.50 EL1 2040.9 EL2 134.5 ALF 13.16

LAUNCH DATE FEB 25 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.983 GAL -2.37 AZL 86.15 MCA 225.83 SMA 124.71 ECC .19188 INC 3.8512 V1 30.086
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.194 GAP 8.16 AZP 92.69 TAL 190.06 TAP 55.89 RCA 100.78 APO 148.64 V2 34.945
 RC 157.792 GL 27.18 GP -27.37 ZAL 112.48 ZAP 147.81 ETS 307.80 ZAE 127.18 ETE 202.28 ZAC 135.48 ETC 190.69 CLP-162.35

PLANETOCENTRIC CONIC
 C3 15.714 VHL 3.964 DLA 40.56 RAL 27.53 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 6.505 DPA -12.84 RAP 47.64 ECC 1.2586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.66 17 26 52 4113.99 -29.35 182.17 256.47 60.65 18 35 26 3514.0 -33.01 174.26
 120.34 0 17 21 2846.72 -29.34 85.54 256.46 60.64 1 4 48 2246.7 -33.00 77.64
 59.66 17 26 52 4113.99 -29.35 182.17 256.47 60.65 18 35 26 3514.0 -33.01 174.26
 120.34 0 17 21 2846.72 -29.34 85.54 256.46 60.64 1 4 48 2246.7 -33.00 77.64
 59.66 17 26 52 4113.99 -29.35 182.17 256.47 60.65 18 35 26 3514.0 -33.01 174.26
 120.34 0 17 21 2846.72 -29.34 85.54 256.46 60.64 1 4 48 2246.7 -33.00 77.64

MID-COURSE EXECUTION ACCURACY
 SGT 4842.8 SGR 558.2 SG3 203.0
 RRT .7851 RRF .8371 RTF .9154
 SGB 4874.8 R23 .1854 R13 .9166
 SGI 4862.6 SG2 344.3 THA 5.20

ORBIT DETERMINATION ACCURACY
 ST 1989.6 SR 478.8 SS 584.8
 CRT .9651 CRS -.9984 CST -.9561
 LSA 2118.9 MSA 198.8 SSA 16.7
 EL1 2042.7 EL2 122.1 ALF 13.12

DIFFERENTIAL CORRECTIONS
 TOE 1.3214 TRA -.9525 TC3-5.1269 BAU 1.0797
 ROE .3311 RRA -.0131 RC3 -.3608 FAU .04822
 FDE .7184 FRA .0375 FC3-2.6565 BSP 15350
 BOE 1.3623 BRA .9525 BC3 5.1395 FSP -663

LAUNCH DATE FEB 25 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.932 GAL -2.00 AZL 86.49 MCA 229.01 SMA 124.39 ECC .19366 INC 3.5079 V1 30.086
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.169 GAP 8.40 AZP 92.30 TAL 188.37 TAP 57.39 RCA 100.30 APO 148.48 V2 34.957
 RC 159.953 GL 25.29 GP -25.65 ZAL 110.36 ZAP 149.68 ETS 307.97 ZAE 127.76 ETE 201.05 ZAC 137.74 ETC 190.23 CLP-163.25

PLANETOCENTRIC CONIC
 C3 14.865 VHL 3.856 DLA 39.79 RAL 31.55 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 6.557 DPA -10.50 RAP 48.98 ECC 1.2446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.80 17 48 3 4087.03 -29.25 179.81 259.31 61.73 18 56 10 3487.0 -32.77 171.85
 119.20 0 28 14 2848.73 -29.24 85.64 259.31 61.72 1 15 43 2248.7 -32.77 77.68
 60.80 17 48 3 4087.03 -29.25 179.81 259.31 61.73 18 56 10 3487.0 -32.77 171.85
 119.20 0 28 14 2848.73 -29.24 85.64 259.31 61.72 1 15 43 2248.7 -32.77 77.68
 60.80 17 48 3 4087.03 -29.25 179.81 259.31 61.73 18 56 10 3487.0 -32.77 171.85
 119.20 0 28 14 2848.73 -29.24 85.64 259.31 61.72 1 15 43 2248.7 -32.77 77.68

MID-COURSE EXECUTION ACCURACY
 SGT 4922.3 SGR 548.2 SG3 201.7
 RRT .7704 RRF .8125 RTF .9142
 SGB 4952.7 R23 .1642 R13 .9152
 SGI 4940.5 SG2 348.2 THA 4.93

ORBIT DETERMINATION ACCURACY
 ST 1986.5 SR 476.6 SS 562.7
 CRT .9721 CRS -.9963 CST -.9540
 LSA 2110.3 MSA 189.9 SSA 18.8
 EL1 2040.0 EL2 109.0 ALF 13.17

DIFFERENTIAL CORRECTIONS
 TOE 1.2974 TRA -.7950 TC3-5.5246 BAU 1.1001
 ROE .3207 RRA -.0020 RC3 -.3513 FAU .04681
 FDE .6654 FRA .1198 FC3-2.7261 BSP 15618
 BOE 1.3364 BRA .7950 BC3 5.5357 FSP -659

LAUNCH DATE FEB 25 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.881 GAL -1.62 AZL 86.80 MCA 232.20 SMA 124.07 ECC .19563 INC 3.1960 V1 30.086
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.144 GAP 8.65 AZP 91.96 TAL 186.69 TAP 58.88 RCA 99.80 APO 148.34 V2 34.970
 RC 162.097 GL 23.44 GP -24.12 ZAL 107.96 ZAP 151.39 ETS 307.99 ZAE 128.24 ETE 199.94 ZAC 139.99 ETC 189.78 CLP-164.14

PLANETOCENTRIC CONIC
 C3 14.183 VHL 3.766 DLA 39.05 RAL 35.69 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 6.626 DPA -8.36 RAP 50.44 ECC 1.2334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.90 18 9 45 4061.90 -29.08 177.60 262.44 62.69 19 17 27 3461.9 -32.49 169.59
 118.10 0 39 36 2853.01 -29.07 85.90 262.43 62.68 1 27 9 2253.0 -32.48 77.89
 61.90 18 9 45 4061.90 -29.08 177.60 262.44 62.69 19 17 27 3461.9 -32.49 169.59
 118.10 0 39 36 2853.01 -29.07 85.90 262.43 62.68 1 27 9 2253.0 -32.48 77.89
 61.90 18 9 45 4061.90 -29.08 177.60 262.44 62.69 19 17 27 3461.9 -32.49 169.59
 118.10 0 39 36 2853.01 -29.07 85.90 262.43 62.68 1 27 9 2253.0 -32.48 77.89

MID-COURSE EXECUTION ACCURACY
 SGT 5000.6 SGR 540.9 SG3 199.8
 RRT .7556 RRF .7875 RTF .9139
 SGB 5029.7 R23 .1428 R13 .9147
 SGI 5017.3 SG2 353.1 THA 4.70

ORBIT DETERMINATION ACCURACY
 ST 1973.4 SR 475.3 SS 537.8
 CRT .9788 CRS -.9923 CST -.9514
 LSA 2092.0 MSA 180.6 SSA 21.1
 EL1 2027.7 EL2 94.8 ALF 13.30

DIFFERENTIAL CORRECTIONS
 TOE 1.2709 TRA -.6318 TC3-5.8980 BAU 1.1202
 ROE .3124 RRA -.0084 RC3 -.3423 FAU .04527
 FDE .6114 FRA .1972 FC3-2.7635 BSP 15900
 BOE 1.3088 BRA .6318 BC3 5.9079 FSP -653

LAUNCH DATE FEB 25 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.831 GAL -1.23 AZL 87.09 MCA 235.39 SMA 123.76 ECC .19778 INC 2.9097 V1 30.086
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.120 GAP 8.90 AZP 91.65 TAL 184.99 TAP 60.37 RCA 99.28 APO 148.23 V2 34.983
 RC 164.221 GL 21.63 GP -22.76 ZAL 105.33 ZAP 152.97 ETS 307.88 ZAE 128.65 ETE 198.93 ZAC 142.25 ETC 189.35 CLP-165.03

PLANETOCENTRIC CONIC
 C3 13.649 VHL 3.694 DLA 38.33 RAL 39.96 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 6.710 DPA -6.38 RAP 52.01 ECC 1.2246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.01 18 32 10 4037.97 -28.84 175.48 265.83 63.58 19 39 28 3438.0 -32.14 167.43
 116.99 0 51 14 2860.08 -28.83 86.35 265.82 63.56 1 38 54 2260.1 -32.13 78.31
 63.01 18 32 10 4037.97 -28.84 175.48 265.83 63.58 19 39 28 3438.0 -32.14 167.43
 116.99 0 51 14 2860.08 -28.83 86.35 265.82 63.56 1 38 54 2260.1 -32.13 78.31
 63.01 18 32 10 4037.97 -28.84 175.48 265.83 63.58 19 39 28 3438.0 -32.14 167.43
 116.99 0 51 14 2860.08 -28.83 86.35 265.82 63.56 1 38 54 2260.1 -32.13 78.31

MID-COURSE EXECUTION ACCURACY
 SGT 5069.4 SGR 536.1 SG3 197.0
 RRT .7394 RRF .7627 RTF .9134
 SGB 5097.7 R23 .1247 R13 .9141
 SGI 5085.0 SG2 359.8 THA 4.49

ORBIT DETERMINATION ACCURACY
 ST 1953.0 SR 475.5 SS 513.1
 CRT .9851 CRS -.9856 CST -.9479
 LSA 2067.2 MSA 172.1 SSA 23.6
 EL1 2008.5 EL2 79.5 ALF 13.51

DIFFERENTIAL CORRECTIONS
 TOE 1.2439 TRA -.4575 TC3-6.2255 BAU 1.1376
 ROE .3065 RRA -.0193 RC3 -.3315 FAU .04349
 FDE .5595 FRA .2740 FC3-2.7584 BSP 16101
 BOE 1.2811 BRA .4579 BC3 6.2344 FSP -641

LAUNCH DATE FEB 25 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 487.055

RL 148.10 LAL -.00 LOL 156.22 VL 26.781 GAL -.82 AZL 87.36 MCA 238.58 SMA 123.45 ECC .20013 INC 2.6444 V1 30.086
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.097 GAP 9.16 AZP 91.38 TAL 183.28 TAP 61.86 RCA 98.74 APO 148.16 V2 34.996
 RC 166.326 GL 19.84 GP -21.55 ZAL 102.46 ZAP 154.43 ETS 307.63 ZAE 129.00 ETE 198.02 ZAC 144.51 ETC 188.94 CLP-165.90

PLANETOCENTRIC CONIC

C3 13.252 VHL 3.640 OLA 37.60 RAL 44.34 RAD 6567.5 VEL 11.603 PTH 2.03 VHP 6.809 DPA -4.54 RAP 53.67 ECC 1.2181
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.16 18 55 25 4014.77 -28.52 173.39 269.48 64.39 20 2 20 3414.8 -31.71 165.32
 115.84 1 2 56 2870.44 -28.50 87.02 269.47 64.37 1 50 46 2270.4 -31.70 78.96
 64.16 18 55 25 4014.77 -28.52 173.39 269.48 64.39 20 2 20 3414.8 -31.71 165.32
 115.84 1 2 56 2870.44 -28.50 87.02 269.47 64.37 1 50 46 2270.4 -31.70 78.96
 64.16 18 55 25 4014.77 -28.52 173.39 269.48 64.39 20 2 20 3414.8 -31.71 165.32
 115.84 1 2 56 2870.44 -28.50 87.02 269.47 64.37 1 50 46 2270.4 -31.70 78.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2084 TRA -.2778 TC3-6.5141 BAU 1.1555 SGT 5139.5 SGR 533.0 SG3 194.0 ST 1914.4 SR 475.3 SS 485.1
 RDE .3018 RRA .0299 RC3 -.3220 FAU .04171 RRT .7237 RRF .7388 RTF .9138 CRT .9905 CRS -.9753 CST -.9431
 FDE .5059 FRA .3456 FC3-2.7248 BSP 16358 SGB 5167.0 R23 .1073 R13 .9144 LSA 2024.4 MSA 164.3 SSA 26.4
 BDE 1.2455 BRA .2794 BC3 6.5220 FSP -633 SG1 5154.0 SG2 366.8 THA 4.31 EL1 1971.5 EL2 63.4 ALF 13.83

LAUNCH DATE FEB 25 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 492.796

RL 148.10 LAL -.00 LOL 156.22 VL 26.732 GAL -.40 AZL 87.60 MCA 241.77 SMA 123.15 ECC .20270 INC 2.3964 V1 30.086
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.074 GAP 9.43 AZP 91.13 TAL 181.57 TAP 63.34 RCA 98.19 APO 148.11 V2 35.010
 RC 168.410 GL 18.07 GP -20.46 ZAL 99.40 ZAP 155.79 ETS 307.23 ZAE 129.30 ETE 197.20 ZAC 146.79 ETC 188.54 CLP-166.77

PLANETOCENTRIC CONIC

C3 12.987 VHL 3.604 OLA 36.82 RAL 48.82 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 6.919 DPA -2.84 RAP 55.42 ECC 1.2137
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.41 19 19 43 3991.49 -28.09 171.27 273.35 65.15 20 26 15 3391.5 -31.19 163.20
 114.59 1 14 20 2884.99 -28.08 87.98 273.35 65.14 2 2 25 2285.0 -31.18 79.91
 65.41 19 19 43 3991.49 -28.09 171.27 273.35 65.15 20 26 15 3391.5 -31.19 163.20
 114.59 1 14 20 2884.99 -28.08 87.98 273.35 65.14 2 2 25 2285.0 -31.18 79.91
 65.41 19 19 43 3991.49 -28.09 171.27 273.35 65.15 20 26 15 3391.5 -31.19 163.20
 114.59 1 14 20 2884.99 -28.08 87.98 273.35 65.14 2 2 25 2285.0 -31.18 79.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1651 TRA -.0900 TC3-6.7473 BAU 1.1727 SGT 5207.0 SGR 531.0 SG3 190.5 ST 1859.0 SR 474.6 SS 454.6
 RDE .2981 RRA .0406 RC3 -.3127 FAU .03991 RRT .7088 RRF .7158 RTF .9151 CRT .9948 CRS -.9595 CST -.9366
 FDE .4512 FRA .4126 FC3-2.6605 BSP 16615 SGB 5234.0 R23 .0906 R13 .9155 LSA 1965.2 MSA 157.9 SSA 29.2
 BDE 1.2027 BRA .0988 BC3 6.7546 FSP -623 SG1 5220.7 SG2 373.6 THA 4.16 EL1 1918.0 EL2 47.1 ALF 14.26

LAUNCH DATE FEB 25 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 498.520

RL 148.10 LAL -.00 LOL 156.22 VL 26.683 GAL .04 AZL 87.84 MCA 244.97 SMA 122.85 ECC .20551 INC 2.1627 V1 30.086
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.051 GAP 9.71 AZP 90.92 TAL 179.86 TAP 64.83 RCA 97.60 APO 148.10 V2 35.023
 RC 170.474 GL 16.31 GP -19.48 ZAL 96.17 ZAP 157.05 ETS 306.68 ZAE 129.57 ETE 196.46 ZAC 149.07 ETC 188.13 CLP-167.62

PLANETOCENTRIC CONIC

C3 12.852 VHL 3.585 OLA 35.99 RAL 53.36 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 7.042 DPA -1.26 RAP 57.24 ECC 1.2115
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.79 19 45 16 3967.23 -27.56 169.05 277.43 65.87 20 51 23 3367.2 -30.57 160.98
 113.21 1 25 1 2904.75 -27.55 89.29 277.42 65.87 2 13 26 2304.8 -30.56 81.23
 66.79 19 45 16 3967.23 -27.56 169.05 277.43 65.88 20 51 23 3367.2 -30.57 160.98
 113.21 1 25 1 2904.75 -27.55 89.29 277.42 65.87 2 13 26 2304.8 -30.56 81.23
 66.79 19 45 16 3967.23 -27.56 169.05 277.43 65.88 20 51 23 3367.2 -30.57 160.98
 113.21 1 25 1 2904.75 -27.55 89.29 277.42 65.87 2 13 26 2304.8 -30.56 81.23

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1238 TRA .1057 TC3-6.9048 BAU 1.1874 SGT 5270.5 SGR 532.6 SG3 185.5 ST 1803.3 SR 478.8 SS 438.4
 RDE .2990 RRA .0517 RC3 -.2957 FAU .03755 RRT .6872 RRF .6962 RTF .9154 CRT .9972 CRS -.9410 CST -.9330
 FDE .4134 FRA .4766 FC3-2.5294 BSP 16646 SGB 5297.3 R23 .0877 R13 .9159 LSA 1910.1 MSA 153.9 SSA 32.0
 BDE 1.1629 BRA .1177 BC3 6.9111 FSP -588 SG1 5283.3 SG2 386.0 THA 3.99 EL1 1865.5 EL2 34.7 ALF 14.84

LAUNCH DATE FEB 25 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 504.227

RL 148.10 LAL -.00 LOL 156.22 VL 26.634 GAL .49 AZL 88.06 MCA 248.17 SMA 122.56 ECC .20856 INC 1.9407 V1 30.086
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.029 GAP 9.99 AZP 90.72 TAL 178.14 TAP 66.31 RCA 97.00 APO 148.12 V2 35.036
 RC 172.518 GL 14.57 GP -18.60 ZAL 92.79 ZAP 158.22 ETS 305.97 ZAE 129.80 ETE 195.79 ZAC 151.36 ETC 187.71 CLP-168.47

PLANETOCENTRIC CONIC

C3 12.848 VHL 3.584 OLA 35.10 RAL 57.94 RAD 6567.5 VEL 11.586 PTH 2.03 VHP 7.175 DPA .21 RAP 59.14 ECC 1.2114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.34 20 12 12 3941.18 -26.92 166.66 281.69 66.58 21 17 53 3341.2 -29.85 158.61
 111.66 1 34 37 2930.68 -26.91 91.04 281.68 66.57 2 23 28 2330.7 -29.84 82.99
 68.34 20 12 12 3941.18 -26.92 166.66 281.69 66.58 21 17 53 3341.2 -29.85 158.61
 111.66 1 34 37 2930.68 -26.91 91.04 281.68 66.57 2 23 28 2330.7 -29.84 82.99
 68.34 20 12 12 3941.18 -26.92 166.66 281.69 66.58 21 17 53 3341.2 -29.85 158.61
 111.66 1 34 37 2930.68 -26.91 91.04 281.68 66.57 2 23 28 2330.7 -29.84 82.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0516 TRA .3184 TC3-6.9893 BAU 1.2016 SGT 5321.5 SGR 529.3 SG3 182.4 ST 1697.9 SR 471.8 SS 394.5
 RDE .2942 RRA .0646 RC3 -.2896 FAU .03601 RRT .6778 RRF .6741 RTF .9168 CRT .9967 CRS -.9000 CST -.9153
 FDE .3430 FRA .5439 FC3-2.4262 BSP 16966 SGB 5347.7 R23 .0671 R13 .9171 LSA 1798.7 MSA 157.1 SSA 33.9
 BDE 1.0920 BRA .3249 BC3 6.9953 FSP -593 SG1 5333.6 SG2 388.3 THA 3.88 EL1 1761.9 EL2 36.9 ALF 15.49

LAUNCH DATE FEB 25 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.586 GAL .96 AZL 88.27 HCA 251.37 SMA 122.27 ECC .21188 INC 1.7282 V1 30.086
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.007 GAP 10.29 AZP 90.55 TAL 176.42 TAP 67.79 RCA 96.36 APO 148.17 V2 35.050
 RC 174.540 GL 12.86 GP -17.81 ZAL 89.31 ZAP 159.32 ETS 305.10 ZAE 130.01 ETE 195.19 ZAC 153.67 ETC 187.26 CLP-169.31

PLANETOCENTRIC CONIC
 C3 12.981 VHL 3.603 DLA 34.12 RAL 62.51 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 7.321 DPA 1.58 RAP 61.10 ECC 1.2136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.11 20 40 51 3911.92 -26.16 164.00 286.08 67.26 21 46 3 3311.9 -29.00 155.98
 109.89 1 42 29 2964.37 -26.15 93.32 286.08 67.25 2 31 54 2364.4 -28.99 85.30
 70.11 20 40 51 3911.92 -26.16 164.00 286.08 67.26 21 46 3 3311.9 -29.00 155.98
 109.89 1 42 29 2964.37 -26.15 93.32 286.08 67.25 2 31 54 2364.4 -28.99 85.30
 110.00 1 58 22 2915.96 -27.38 90.10 286.63 68.68 2 46 58 2316.0 -30.02 81.90
 110.00 1 28 4 3008.32 -24.94 96.17 285.50 65.83 2 18 12 2408.3 -27.99 88.32

MID-COURSE EXECUTION ACCURACY
 SGT 5379.0 SGR 528.7 SG3 178.2
 RRT .6644 RRF .6554 RTF .9191
 SGB 5404.9 R23 .0554 R13 .9194
 SG1 5390.5 SG2 394.3 THA 3.76

ORBIT DETERMINATION ACCURACY
 ST 1588.8 SR 468.2 SS 364.1
 CRT .9915 CRS -.8476 CST -.8992
 LSA 1687.5 MSA 165.6 SSA 34.8
 EL1 1655.4 EL2 58.4 ALF 16.31

DIFFERENTIAL CORRECTIONS
 TOE .9755 TRA .5339 TC3-7.0045 BAU 1.2165
 RDE .2931 RRA .0770 RC3 -.2790 FAU .03422
 FDE .2871 FRA .6026 FC3-2.2824 BSP 17204
 BOE 1.0186 BRA .5394 BC3 7.0100 FSP -583

LAUNCH DATE FEB 25 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.539 GAL 1.45 AZL 88.48 HCA 254.57 SMA 121.98 ECC .21548 INC 1.5235 V1 30.086
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.985 GAP 10.61 AZP 90.41 TAL 174.71 TAP 69.28 RCA 95.70 APO 148.27 V2 35.063
 RC 176.542 GL 11.17 GP -17.09 ZAL 85.76 ZAP 160.34 ETS 304.05 ZAE 130.20 ETE 194.64 ZAC 155.98 ETC 186.78 CLP-170.14

PLANETOCENTRIC CONIC
 C3 13.257 VHL 3.641 DLA 33.08 RAL 67.05 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 7.478 DPA 2.85 RAP 63.11 ECC 1.2182
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.15 21 11 32 3877.84 -25.28 160.95 290.59 67.93 22 16 10 3277.8 -28.05 152.97
 107.85 1 47 59 3007.55 -25.27 96.26 290.58 67.91 2 38 7 2407.6 -28.04 88.28
 72.15 21 11 32 3877.84 -25.28 160.95 290.59 67.93 22 16 10 3277.8 -28.05 152.97
 107.85 1 47 59 3007.55 -25.27 96.26 290.58 67.91 2 38 7 2407.6 -28.04 88.28
 110.00 3 7 0 2764.85 -30.67 79.57 292.69 74.11 3 53 5 2164.9 -32.54 70.86
 110.00 0 55 37 3168.53 -20.11 106.09 287.96 61.76 1 48 26 2568.5 -23.72 98.82

MID-COURSE EXECUTION ACCURACY
 SGT 5428.4 SGR 527.9 SG3 173.6
 RRT .6506 RRF .6381 RTF .9209
 SGB 5454.0 R23 .0470 R13 .9211
 SG1 5439.4 SG2 400.1 THA 3.64

ORBIT DETERMINATION ACCURACY
 ST 1471.0 SR 463.7 SS 338.6
 CRT .9784 CRS -.7727 CST -.8801
 LSA 1568.0 MSA 183.5 SSA 34.2
 EL1 1539.6 EL2 91.5 ALF 17.20

DIFFERENTIAL CORRECTIONS
 TOE .8889 TRA .7622 TC3-6.9294 BAU 1.2291
 RDE .2929 RRA .0904 RC3 -.2659 FAU .03233
 FDE .2324 FRA .6612 FC3-2.1113 BSP 17401
 BOE .9359 BRA .7675 BC3 6.9345 FSP -570

LAUNCH DATE FEB 25 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.492 GAL 1.96 AZL 88.68 HCA 257.78 SMA 121.71 ECC .21940 INC 1.3248 V1 30.086
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.964 GAP 10.93 AZP 90.28 TAL 172.99 TAP 70.77 RCA 95.00 APO 148.41 V2 35.076
 RC 178.523 GL 9.52 GP -16.44 ZAL 82.17 ZAP 161.30 ETS 302.81 ZAE 130.37 ETE 194.14 ZAC 158.30 ETC 186.24 CLP-170.96

PLANETOCENTRIC CONIC
 C3 13.687 VHL 3.700 DLA 31.96 RAL 71.51 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 7.647 DPA 4.04 RAP 65.18 ECC 1.2253
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.53 21 44 57 3836.22 -24.29 157.33 295.17 68.57 22 48 53 3236.2 -26.99 149.39
 105.47 1 50 8 3063.06 -24.28 100.08 295.17 68.56 2 41 11 2463.1 -26.98 92.14
 74.53 21 44 57 3836.22 -24.29 157.33 295.17 68.57 22 48 53 3236.2 -26.99 149.39
 105.47 1 50 8 3063.06 -24.28 100.08 295.17 68.56 2 41 11 2463.1 -26.98 92.14
 110.00 3 52 0 2685.69 -32.00 73.79 297.85 77.29 4 36 46 2085.7 -33.42 64.85
 110.00 0 46 10 3261.59 -17.02 111.54 291.42 59.90 1 40 32 2661.6 -20.89 104.55

MID-COURSE EXECUTION ACCURACY
 SGT 5471.6 SGR 527.0 SG3 169.0
 RRT .6379 RRF .6225 RTF .9228
 SGB 5497.0 R23 .0398 R13 .9230
 SG1 5482.0 SG2 405.1 THA 3.54

ORBIT DETERMINATION ACCURACY
 ST 1354.1 SR 458.2 SS 319.6
 CRT .9520 CRS -.6726 CST -.8612
 LSA 1449.1 MSA 211.5 SSA 32.3
 EL1 1423.2 EL2 133.4 ALF 18.02

DIFFERENTIAL CORRECTIONS
 TOE .7930 TRA 1.0045 TC3-6.7666 BAU 1.2391
 RDE .2935 RRA .1048 RC3 -.2512 FAU .03043
 FDE .1793 FRA .7189 FC3-1.9249 BSP 17509
 BOE .8456 BRA 1.0100 BC3 6.7713 FSP -555

LAUNCH DATE FEB 25 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC
 RL 148.10 LAL -.00 LOL 156.22 VL 26.445 GAL 2.49 AZL 88.87 HCA 260.99 SMA 121.43 ECC .22366 INC 1.1308 V1 30.086
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.943 GAP 11.28 AZP 90.18 TAL 171.28 TAP 72.27 RCA 94.27 APO 148.59 V2 35.089
 RC 180.483 GL 7.93 GP -15.84 ZAL 78.58 ZAP 162.19 ETS 301.38 ZAE 130.53 ETE 193.69 ZAC 160.63 ETC 185.60 CLP-171.77

PLANETOCENTRIC CONIC
 C3 14.285 VHL 3.779 DLA 30.77 RAL 75.85 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 7.829 DPA 5.14 RAP 67.30 ECC 1.2351
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.42 22 22 27 3782.11 -23.21 152.79 299.80 69.21 23 25 29 3182.1 -25.83 144.90
 102.58 1 47 15 3135.95 -23.20 105.13 299.80 69.19 2 39 31 2535.9 -25.82 97.24
 77.42 22 22 27 3782.11 -23.21 152.79 299.80 69.21 23 25 29 3182.1 -25.83 144.90
 102.58 1 47 15 3135.95 -23.20 105.13 299.80 69.19 2 39 31 2535.9 -25.82 97.24
 110.00 4 31 3 2624.56 -32.83 69.21 302.81 79.88 5 14 48 2024.6 -33.87 60.13
 110.00 0 41 45 3341.49 -14.24 116.06 295.17 58.59 1 37 26 2741.5 -18.29 109.29

MID-COURSE EXECUTION ACCURACY
 SGT 5514.2 SGR 525.1 SG3 164.4
 RRT .6256 RRF .6076 RTF .9250
 SGB 5539.1 R23 .0330 R13 .9251
 SG1 5524.0 SG2 408.9 THA 3.43

ORBIT DETERMINATION ACCURACY
 ST 1237.3 SR 450.9 SS 306.5
 CRT .9036 CRS -.5432 CST -.8459
 LSA 1328.6 MSA 249.6 SSA 29.9
 EL1 1304.1 EL2 183.3 ALF 18.61

DIFFERENTIAL CORRECTIONS
 TOE .6817 TRA 1.2547 TC3-6.5398 BAU 1.2497
 RDE .2945 RRA .1195 RC3 -.2364 FAU .02865
 FDE .1254 FRA .7735 FC3-1.7364 BSP 17705
 BOE .7426 BRA 1.2604 BC3 6.5440 FSP -544

LAUNCH DATE FEB 25 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 532.393

RL 148.10 LAL -.00 LOL 156.22 VL 26.399 GAL 3.05 AZL 89.06 MCA 264.20 SMA 121.16 ECC .22828 INC .9400 V1 30.086
 RP 107.96 LAP -.94 LOP 60.42 VP 36.922 GAP 11.64 AZP 90.10 TAL 169.57 TAP 73.77 RCA 93.50 APO 148.82 V2 35.102
 RC 182.422 GL 6.40 GP -15.30 ZAL 75.03 ZAP 163.03 ETS 299.74 ZAE 130.67 ETE 193.28 ZAC 162.97 ETC 184.84 CLP-172.58

PLANETOCENTRIC CONIC

C3 15.065 VML 3.881 DLA 29.54 RAL 80.04 RAD 6567.6 VEL 11.681 PTH 2.05 VHP 8.025 DPA 6.16 RAP 69.46 ECC 1.2479
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.21 23 7 40 3703.14 -22.04 146.43 304.45 69.82 24 9 23 3103.1 -24.59 138.59
 98.79 1 35 28 3238.58 -22.03 112.31 304.45 69.81 2 29 26 2638.6 -24.58 104.46
 100.00 2 23 23 3085.26 -24.99 102.02 305.53 73.03 3 14 48 2485.3 -27.07 93.84
 100.00 1 6 22 3331.70 -19.15 117.98 303.22 66.60 2 1 54 2731.7 -22.15 110.47
 110.00 5 6 32 2573.99 -33.37 65.37 307.64 82.10 5 49 26 1974.0 -34.10 56.20
 110.00 0 39 42 3415.73 -11.56 120.15 299.06 57.61 1 36 38 2815.7 -15.76 113.56

DIFFERENTIAL CORRECTIONS

TDE .5601 TRA 1.5174 TC3-6.2467 BAU 1.2589
 RDE .2962 RRA .1348 RC3 -.2204 FAU .02690
 FDE .0731 FRA .8269 FC3-1.5457 BSP 17864
 BDE .6336 BRA 1.5234 BC3 6.2506 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 5552.2 SGR 522.4 SG3 159.8
 RRT .6139 RRF .5937 RTF .9272
 SGB 5576.7 R23 .0271 R13 .9273
 SG1 5561.5 SG2 411.7 THA 3.32

ORBIT DETERMINATION ACCURACY

ST 1140.8 SR 442.7 SS 302.3
 CRT .8224 CRS -.3951 CST -.8435
 LSA 1225.1 MSA 295.2 SSA 27.3
 EL1 1200.0 EL2 239.4 ALF 18.46

LAUNCH DATE FEB 25 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 537.930

RL 148.10 LAL -.00 LOL 156.22 VL 26.354 GAL 3.63 AZL 89.25 MCA 267.42 SMA 120.90 ECC .23331 INC .7513 V1 30.086
 RP 107.92 LAP -.75 LOP 63.64 VP 36.901 GAP 12.03 AZP 90.03 TAL 167.87 TAP 75.29 RCA 92.69 APO 149.10 V2 35.114
 RC 184.340 GL 4.94 GP -14.81 ZAL 71.55 ZAP 163.81 ETS 297.88 ZAE 130.80 ETE 192.90 ZAC 165.30 ETC 183.86 CLP-173.39

PLANETOCENTRIC CONIC

C3 16.048 VML 4.006 DLA 28.27 RAL 84.05 RAD 6567.6 VEL 11.723 PTH 2.07 VHP 8.235 DPA 7.10 RAP 71.66 ECC 1.2641
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 14 3440.77 -21.82 127.07 309.48 71.50 1 50 35 2840.8 -24.15 119.17
 90.00 0 25 53 3529.49 -19.80 132.79 308.70 69.33 1 24 42 2929.5 -22.43 125.11
 100.00 3 23 20 2956.76 -27.24 93.14 311.14 77.19 4 12 37 2356.8 -28.73 84.65
 100.00 0 38 28 3488.74 -14.64 127.46 306.36 63.65 1 36 36 2888.7 -18.06 120.34
 110.00 5 39 16 2531.29 -33.72 62.08 312.39 84.01 6 21 27 1931.3 -34.18 52.87
 110.00 0 39 1 3486.97 -8.94 124.00 303.03 56.87 1 37 8 2887.0 -13.24 117.54

DIFFERENTIAL CORRECTIONS

TDE .4280 TRA 1.7931 TC3-5.8993 BAU 1.2665
 RDE .2986 RRA .1508 RC3 -.2035 FAU .02518
 FDE .0221 FRA .8795 FC3-1.3581 BSP 18020
 BDE .5219 BRA 1.7995 BC3 5.9028 FSP -518

MID-COURSE EXECUTION ACCURACY

SGT 5585.3 SGR 518.7 SG3 155.2
 RRT .6025 RRF .5805 RTF .9294
 SGB 5609.3 R23 .0219 R13 .9295
 SG1 5594.0 SG2 413.3 THA 3.22

ORBIT DETERMINATION ACCURACY

ST 1076.1 SR 433.4 SS 306.6
 CRT .6997 CRS -.2416 CST -.8590
 LSA 1149.7 MSA 342.8 SSA 24.8
 EL1 1121.4 EL2 297.2 ALF 16.97

LAUNCH DATE FEB 25 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 543.425

RL 148.10 LAL -.00 LOL 156.22 VL 26.309 GAL 4.25 AZL 89.44 MCA 270.63 SMA 120.64 ECC .23877 INC .5634 V1 30.086
 RP 107.88 LAP -.56 LOP 66.85 VP 36.881 GAP 12.43 AZP 89.99 TAL 166.18 TAP 76.82 RCA 91.83 APO 149.44 V2 35.126
 RC 186.236 GL 3.56 GP -14.36 ZAL 68.16 ZAP 164.53 ETS 295.78 ZAE 130.92 ETE 192.55 ZAC 167.64 ETC 182.56 CLP-174.19

PLANETOCENTRIC CONIC

C3 17.259 VML 4.154 DLA 26.99 RAL 87.88 RAD 6567.7 VEL 11.775 PTH 2.08 VHP 8.461 DPA 7.97 RAP 73.90 ECC 1.2840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 10 49 3253.43 -25.32 114.46 315.53 76.88 3 5 2 2653.4 -26.87 106.14
 90.00 23 34 53 3750.18 -13.95 146.34 311.38 65.11 24 37 24 3150.2 -17.19 139.16
 100.00 4 6 22 2880.94 -28.27 87.74 316.21 79.85 4 54 23 2280.9 -29.38 79.11
 100.00 0 25 58 3597.91 -11.25 133.79 310.01 62.12 1 25 55 2997.9 -14.89 126.89
 110.00 6 9 37 2495.23 -33.94 59.29 317.05 85.65 6 51 13 1895.2 -34.17 50.05
 110.00 0 39 11 3556.38 -6.34 127.69 307.05 56.34 1 38 28 2956.4 -10.72 121.34

DIFFERENTIAL CORRECTIONS

TDE .2907 TRA 2.0866 TC3-5.5022 BAU 1.2703
 RDE .3022 RRA .1676 RC3 -.1853 FAU .02342
 FDE -.0252 FRA .9333 FC3-1.1749 BSP 18077
 BDE .4193 BRA 2.0933 BC3 5.5053 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 5611.6 SGR 514.5 SG3 150.7
 RRT .5919 RRF .5691 RTF .9314
 SGB 5635.1 R23 .0184 R13 .9315
 SG1 5619.9 SG2 414.1 THA 3.12

ORBIT DETERMINATION ACCURACY

ST 1057.4 SR 424.0 SS 318.5
 CRT .5423 CRS -.1050 CST -.8897
 LSA 1119.4 MSA 382.0 SSA 22.7
 EL1 1085.1 EL2 347.2 ALF 13.70

LAUNCH DATE FEB 25 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 548.872

RL 148.10 LAL -.00 LOL 156.22 VL 26.265 GAL 4.89 AZL 89.62 MCA 273.85 SMA 120.38 ECC .24471 INC .3751 V1 30.086
 RP 107.85 LAP -.37 LOP 70.07 VP 36.861 GAP 12.87 AZP 89.97 TAL 164.51 TAP 78.36 RCA 90.92 APO 149.84 V2 35.138
 RC 188.109 GL 2.27 GP -13.95 ZAL 64.89 ZAP 165.19 ETS 293.44 ZAE 131.02 ETE 192.23 ZAC 169.97 ETC 180.69 CLP-175.00

PLANETOCENTRIC CONIC

C3 18.725 VML 4.327 DLA 25.71 RAL 91.50 RAD 6567.8 VEL 11.837 PTH 2.10 VHP 8.705 DPA 8.76 RAP 76.17 ECC 1.3082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 45 3170.10 -26.48 108.64 320.62 79.57 3 48 35 2570.1 -27.65 100.17
 90.00 23 18 51 3871.53 -10.36 153.45 314.97 63.50 24 23 22 3271.5 -13.84 146.50
 100.00 4 42 46 2825.09 -28.87 83.69 321.06 81.90 5 29 51 2225.1 -29.69 74.99
 100.00 0 18 27 3691.78 -8.21 139.10 313.83 61.16 1 19 59 3091.8 -12.00 132.36
 110.00 6 37 48 2465.14 -34.07 56.95 321.65 87.03 7 18 54 1865.1 -34.11 47.70
 110.00 0 39 53 3624.50 -3.75 131.27 311.09 56.00 1 40 18 3024.5 -8.19 124.99

DIFFERENTIAL CORRECTIONS

TDE .1406 TRA 2.3905 TC3-5.0881 BAU 1.2744
 RDE .3061 RRA .1845 RC3 -.1677 FAU .02180
 FDE -.0724 FRA .9850 FC3-1.0079 BSP 18219
 BDE .3369 BRA 2.3976 BC3 5.0909 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 5636.1 SGR 508.8 SG3 146.2
 RRT .5812 RRF .5574 RTF .9337
 SGB 5659.1 R23 .0144 R13 .9338
 SG1 5643.9 SG2 413.4 THA 3.02

ORBIT DETERMINATION ACCURACY

ST 1078.3 SR 413.5 SS 335.0
 CRT .3628 CRS .0188 CST -.9227
 LSA 1131.9 MSA 405.4 SSA 20.8
 EL1 1090.2 EL2 381.1 ALF 9.03

LAUNCH DATE FEB 25 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 554.263

RL 148.10 LAL -.00 LOL 156.22 VL 26.221 GAL 5.57 AZL 89.81 MCA 277.07 SMA 120.13 ECC .25119 INC .1852 V1 30.086
 RP 107.81 LAP -.18 LOP 73.29 VP 36.840 GAP 13.33 AZP 89.98 TAL 162.85 TAP 79.92 RCA 89.96 APO 150.31 V2 35.150
 RC 189.959 GL 1.07 GP -13.58 ZAL 61.75 ZAP 165.80 ETS 290.83 ZAE 131.11 ETE 191.94 ZAC 172.29 ETC 177.73 CLP-175.81

PLANETOCENTRIC CONIC

C3 20.483 VHL 4.526 DLA 24.44 RAL 94.91 RAD 6567.8 VEL 11.911 PTH 2.12 VHP 8.967 DPA 9.49 RAP 78.47 ECC 1.3371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 33 3111.77 -27.13 104.49 325.46 81.55 4 24 25 2511.8 -28.02 95.94
 90.00 23 9 15 3972.41 -7.24 159.22 318.76 62.55 24 15 27 3372.4 -10.86 152.41
 100.00 5 14 53 2781.83 -29.25 80.53 325.77 83.52 6 1 15 2181.8 -29.83 71.78
 100.00 0 13 32 3777.58 -5.37 143.88 317.74 60.55 1 16 29 3177.6 -9.25 137.24
 110.00 7 3 58 2440.59 -34.14 55.03 326.19 88.16 7 44 38 1840.6 -34.02 45.79
 110.00 0 40 57 3691.58 -1.19 134.78 315.15 55.84 1 42 29 3091.6 -5.67 128.55

DIFFERENTIAL CORRECTIONS

TOE -.0166 TRA 2.7109 TC3-4.6577 BAU 1.2761
 RDE .3110 RRA .2016 RC3 -.1499 FAU .02021
 FDE -.1174 FRA 1.0371 FC3 -.8541 BSP 18336
 BOE .3114 BRA 2.7184 BC3 4.6601 FSP -478

MID-COURSE EXECUTION ACCURACY

SGT 5655.5 SGR 502.0 SG3 142.0
 RRT .5708 RRF .5464 RTF .9361
 SGB 5677.8 R23 .0112 R13 .9362
 SG1 5662.8 SG2 411.7 THA 2.92

ORBIT DETERMINATION ACCURACY

ST 1138.2 SR 402.6 SS 354.9
 CRT .1907 CRS .1196 CST -.9501
 LSA 1189.6 MSA 409.9 SSA 19.2
 EL1 1141.1 EL2 394.2 ALF 4.38

LAUNCH DATE FEB 25 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 559.590

RL 148.10 LAL -.00 LOL 156.22 VL 26.178 GAL 6.28 AZL 90.01 MCA 280.30 SMA 119.89 ECC .25825 INC .0000 V1 30.086
 RP 107.78 LAP .01 LOP 76.52 VP 36.820 GAP 13.82 AZP 90.00 TAL 161.21 TAP 81.50 RCA 88.93 APO 150.85 V2 35.161
 RC 191.786 GL -.04 GP -13.23 ZAL 58.77 ZAP 166.35 ETS 287.95 ZAE 131.19 ETE 191.66 ZAC 174.57 ETC 172.32 CLP-176.62

PLANETOCENTRIC CONIC

C3 22.573 VHL 4.751 DLA 23.19 RAL 98.11 RAD 6567.9 VEL 11.998 PTH 2.14 VHP 9.251 DPA 10.14 RAP 80.78 ECC 1.3715
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 4 31 3067.99 -27.53 101.35 330.15 83.08 4 55 39 2468.0 -28.20 92.75
 90.00 23 2 48 4063.03 -4.37 164.33 322.63 61.99 24 10 31 3463.0 -8.08 157.62
 100.00 5 43 45 2748.05 -29.48 78.05 330.38 84.81 6 29 33 2148.0 -29.89 69.27
 100.00 0 10 12 3858.20 -2.65 148.33 321.68 60.21 1 14 30 3258.2 -6.60 141.76
 110.00 7 28 12 2421.27 -34.17 53.53 330.68 89.05 8 8 33 1821.3 -33.93 44.29
 110.00 0 42 14 3757.74 1.34 138.23 319.19 55.84 1 44 52 3157.7 -3.15 132.02

DIFFERENTIAL CORRECTIONS

TDE -.1811 TRA 3.0484 TC3-4.2239 BAU 1.2753
 RDE .3167 RRA .2189 RC3 -.1325 FAU .01866
 FDE -.1604 FRA 1.0899 FC3 -.7156 BSP 18443
 BOE .3648 BRA 3.0562 BC3 4.2260 FSP -466

MID-COURSE EXECUTION ACCURACY

SGT 5670.3 SGR 494.1 SG3 137.8
 RRT .5605 RRF .5358 RTF .9387
 SGB 5691.8 R23 .0084 R13 .9387
 SG1 5677.1 SG2 408.8 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 1225.5 SR 391.5 SS 376.5
 CRT .0426 CRS .1997 CST -.9691
 LSA 1278.9 MSA 401.0 SSA 17.9
 EL1 1225.6 EL2 391.1 ALF .87

LAUNCH DATE FEB 25 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 564.842

RL 148.10 LAL -.00 LOL 156.22 VL 26.135 GAL 7.04 AZL 90.20 MCA 283.52 SMA 119.65 ECC .26596 INC .2036 V1 30.086
 RP 107.75 LAP .20 LOP 79.74 VP 36.800 GAP 14.35 AZP 90.05 TAL 159.59 TAP 83.11 RCA 87.82 APO 151.47 V2 35.172
 RC 193.588 GL -1.06 GP -12.92 ZAL 55.94 ZAP 166.83 ETS 284.78 ZAE 131.25 ETE 191.41 ZAC 176.73 ETC 159.56 CLP-177.44

PLANETOCENTRIC CONIC

C3 25.046 VHL 5.005 DLA 21.99 RAL 101.10 RAD 6568.0 VEL 12.101 PTH 2.17 VHP 9.559 DPA 10.73 RAP 83.12 ECC 1.4122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 32 55 3034.70 -27.78 98.95 334.72 84.26 5 23 29 2434.7 -28.28 90.32
 90.00 22 58 15 4147.20 -1.67 169.04 326.55 61.73 24 7 23 3547.2 -5.43 162.38
 100.00 6 9 53 2722.04 -29.62 76.13 334.91 85.81 6 55 15 2122.0 -29.89 67.33
 100.00 0 7 54 3935.09 -.05 152.55 325.65 60.11 1 13 30 3335.1 -4.02 146.02
 110.00 7 50 37 2406.89 -34.18 52.40 335.12 89.72 8 30 44 1806.9 -33.84 43.18
 110.00 0 43 40 3823.00 3.83 141.64 323.24 56.01 1 47 23 3223.0 -6.66 135.43

DIFFERENTIAL CORRECTIONS

TDE -.3487 TRA 3.4088 TC3-3.7891 BAU 1.2694
 RDE .3235 RRA .2364 RC3 -.1152 FAU .01708
 FDE -.2001 FRA 1.1451 FC3 -.5905 BSP 18437
 BOE -.4757 BRA 3.4170 BC3 3.7909 FSP -451

MID-COURSE EXECUTION ACCURACY

SGT 5679.6 SGR 485.4 SG3 133.9
 RRT .5505 RRF .5263 RTF .9413
 SGB 5700.3 R23 .0066 R13 .9413
 SG1 5685.9 SG2 404.8 THA 2.71

ORBIT DETERMINATION ACCURACY

ST 1329.1 SR 380.6 SS 398.4
 CRT -.0730 CRS .2596 CST -.9811
 LSA 1386.0 MSA 385.8 SSA 16.7
 EL1 1329.5 EL2 379.5 ALF 178.70

LAUNCH DATE FEB 25 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 570.006

RL 148.10 LAL -.00 LOL 156.22 VL 26.093 GAL 7.85 AZL 90.41 MCA 286.75 SMA 119.41 ECC .27439 INC .4060 V1 30.086
 RP 107.71 LAP .39 LOP 82.97 VP 36.780 GAP 14.92 AZP 90.12 TAL 158.00 TAP 84.75 RCA 86.64 APO 152.18 V2 35.182
 RC 195.366 GL -1.99 GP -12.63 ZAL 53.28 ZAP 167.25 ETS 281.32 ZAE 131.29 ETE 191.16 ZAC 178.27 ETC 115.87 CLP-178.26

PLANETOCENTRIC CONIC

C3 27.965 VHL 5.288 DLA 20.83 RAL 103.88 RAD 6568.1 VEL 12.220 PTH 2.20 VHP 9.894 DPA 11.26 RAP 85.47 ECC 1.4602
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 26 3009.78 -27.93 97.14 339.21 85.15 5 48 36 2409.8 -28.31 88.50
 90.00 22 54 57 4226.77 -.90 173.47 330.49 61.70 24 5 24 3626.8 -2.89 166.84
 100.00 6 33 39 2702.74 -29.71 74.70 339.36 86.55 7 18 42 2102.7 -29.87 65.90
 100.00 0 6 21 4009.04 2.46 156.60 329.63 60.20 1 13 10 3409.0 -1.52 150.08
 110.00 8 11 19 2397.19 -34.18 51.65 339.51 90.17 8 51 16 1797.2 -33.78 42.42
 110.00 0 45 10 3887.36 6.27 145.02 327.27 56.33 1 49 57 3287.4 1.80 138.78

DIFFERENTIAL CORRECTIONS

TDE -.5278 TRA 3.7847 TC3-3.3759 BAU 1.2627
 RDE .3309 RRA .2532 RC3 -.0992 FAU .01562
 FDE -.2398 FRA 1.2002 FC3 -.4837 BSP 18526
 BOE .6230 BRA 3.7931 BC3 3.3774 FSP -440

MID-COURSE EXECUTION ACCURACY

SGT 5685.5 SGR 475.1 SG3 130.0
 RRT .5396 RRF .5160 RTF .9442
 SGB 5705.4 R23 .0048 R13 .9443
 SG1 5691.3 SG2 399.6 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 1439.1 SR 369.2 SS 420.5
 CRT -.1671 CRS .3102 CST -.9883
 LSA 1499.5 MSA 367.8 SSA 15.7
 EL1 1440.5 EL2 363.7 ALF 177.38

LAUNCH DATE FEB 25 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 575.068

RL 148.10 LAL -0.00 LOL 156.22 VL 26.052 GAL 8.71 AZL 90.62 MCA 289.98 SMA 119.18 ECC .28364 INC .6153 V1 30.086
 RP 107.68 LAP .58 LOP 86.20 VP 36.761 GAP 15.54 AZP 90.21 TAL 156.44 TAP 86.42 RCA 85.38 APO 152.98 V2 35.192
 RC 197.118 GL -2.83 GP -12.36 ZAL 50.78 ZAP 167.61 ETS 277.58 ZAE 131.31 ETE 190.93 ZAC 177.50 ETC 51.73 CLP-179.10

PLANETOCENTRIC CONIC

C3 31.404 VHL 5.604 CLA 19.73 RAL 106.47 RAD 6568.3 VEL 12.360 PTH 2.23 VHP 10.258 DPA 11.72 RAP 87.82 ECC 1.5168
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 30 2991.87 -28.03 95.84 343.62 85.80 6 11 22 2391.9 -28.32 87.19
 90.00 22 52 30 4302.76 3.35 177.72 334.44 61.87 24 4 13 3702.8 -4.44 171.08
 100.00 6 55 19 2689.33 -29.76 73.71 343.74 87.07 7 40 9 2089.3 -29.85 64.90
 100.00 0 5 18 4080.53 4.87 160.54 333.60 60.47 1 13 18 3480.5 .90 154.00
 110.00 8 30 24 2391.86 -34.18 51.23 343.85 90.41 9 10 16 1791.9 -33.75 42.01
 110.00 0 46 42 3950.77 8.65 148.39 331.28 56.80 1 52 33 3350.8 4.22 142.10

DIFFERENTIAL CORRECTIONS

TDE -.7143 TRA 4.1827 TC3-2.9814 BAU 1.2522
 RDE .3392 RRA .2696 RC3 -.0842 FAU .01420
 FDE -.2781 FRA 1.2570 FC3 -.3916 BSP 18600
 BDE .7907 BRA 4.1914 BC3 2.9826 FSP -429

MID-COURSE EXECUTION ACCURACY

SGT 5686.9 SGR 463.6 SG3 126.3
 RRT .5281 RRF .5054 RTF .9474
 SGB 5705.7 R23 .0031 R13 .9474
 SG1 5692.2 SG2 393.3 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1549.6 SR 357.8 SS 442.1
 CRT -.2404 CRS .3508 CST -.9927
 LSA 1613.2 MSA 349.4 SSA 14.8
 EL1 1552.1 EL2 346.7 ALF 176.66

LAUNCH DATE FEB 25 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 580.008

RL 148.10 LAL -0.00 LOL 156.22 VL 26.012 GAL 9.63 AZL 90.83 MCA 293.21 SMA 118.96 ECC .29380 INC .8336 V1 30.086
 RP 107.66 LAP .77 LOP 89.43 VP 36.741 GAP 16.22 AZP 90.33 TAL 154.92 TAP 88.13 RCA 84.01 APO 153.90 V2 35.201
 RC 198.846 GL -3.59 GP -12.12 ZAL 48.45 ZAP 167.88 ETS 273.56 ZAE 131.31 ETE 190.72 ZAC 175.49 ETC 31.67 CLP-179.96

PLANETOCENTRIC CONIC

C3 35.454 VHL 5.954 CLA 18.69 RAL 108.86 RAD 6568.4 VEL 12.523 PTH 2.27 VHP 10.657 DPA 12.11 RAP 90.18 ECC 1.5835
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 26 2980.03 -28.09 94.98 347.95 86.23 6 32 6 2380.0 -28.31 86.32
 90.00 22 50 41 4375.77 5.68 181.82 338.39 62.21 24 3 36 3775.8 1.92 175.16
 100.00 7 15 6 2681.20 -29.79 73.10 348.06 87.39 7 59 47 2081.2 -29.83 64.30
 100.00 0 4 37 4149.83 7.18 164.39 337.57 60.91 1 13 47 3549.8 3.25 157.81
 110.00 8 47 58 2390.63 -34.18 51.13 348.16 90.47 9 27 49 1790.6 -33.74 41.92
 110.00 0 48 14 4013.17 10.95 151.75 335.29 57.42 1 55 7 3413.2 6.58 145.39

DIFFERENTIAL CORRECTIONS

TDE -.9082 TRA 4.6054 TC3-2.6091 BAU 1.2371
 RDE .3484 RRA .2851 RC3 -.0702 FAU .01280
 FDE -.3152 FRA 1.3165 FC3 -.3127 BSP 18665
 BDE .9728 BRA 4.6142 BC3 2.6100 FSP -418

MID-COURSE EXECUTION ACCURACY

SGT 5683.6 SGR 450.9 SG3 122.8
 RRT .5158 RRF .4945 RTF .9507
 SGB 5701.5 R23 .0021 R13 .9508
 SG1 5688.4 SG2 385.9 THA 2.35

ORBIT DETERMINATION ACCURACY

ST 1656.0 SR 346.3 SS 463.2
 CRT -.2978 CRS .3834 CST -.9953
 LSA 1722.3 MSA 331.8 SSA 14.0
 EL1 1659.3 EL2 329.9 ALF 176.29

LAUNCH DATE FEB 25 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 584.804

RL 148.10 LAL -0.00 LOL 156.22 VL 25.972 GAL 10.62 AZL 91.06 MCA 296.44 SMA 118.74 ECC .30499 INC 1.0628 V1 30.086
 RP 107.63 LAP .95 LOP 92.66 VP 36.721 GAP 16.95 AZP 90.47 TAL 153.45 TAP 89.89 RCA 82.52 APO 154.95 V2 35.209
 RC 200.549 GL -4.28 GP -11.89 ZAL 46.28 ZAP 168.08 ETS 269.29 ZAE 131.29 ETE 190.50 ZAC 173.29 ETC 24.37 CLP 179.17

PLANETOCENTRIC CONIC

C3 40.230 VHL 6.343 CLA 17.70 RAL 111.07 RAD 6568.5 VEL 12.712 PTH 2.31 VHP 11.094 DPA 12.45 RAP 92.53 ECC 1.6621
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 26 2973.52 -28.11 94.50 352.21 86.46 6 50 59 2373.5 -28.31 85.84
 90.00 22 49 18 4446.15 7.90 185.80 342.32 62.72 24 3 25 3846.2 4.18 179.09
 100.00 7 33 8 2677.79 -29.80 72.85 352.31 87.52 8 17 46 2077.8 -29.82 64.05
 100.00 0 4 13 4217.11 9.39 168.16 341.52 61.49 1 14 30 3617.1 5.51 161.53
 110.00 9 4 6 2393.17 -34.18 51.33 352.41 90.35 9 43 59 1793.2 -33.75 42.11
 110.00 0 49 44 4074.50 13.18 155.10 339.28 58.17 1 57 39 3474.5 8.88 148.65

DIFFERENTIAL CORRECTIONS

TDE -1.1066 TRA 5.0595 TC3-2.2558 BAU 1.2136
 RDE .3588 RRA .2998 RC3 -.0572 FAU .01136
 FDE -.3500 FRA 1.3804 FC3 -.2444 BSP 18948
 BDE 1.1633 BRA 5.0684 BC3 2.2565 FSP -404

MID-COURSE EXECUTION ACCURACY

SGT 5674.9 SGR 437.2 SG3 119.4
 RRT .5029 RRF .4836 RTF .9543
 SGB 5691.7 R23 .0018 R13 .9543
 SG1 5679.2 SG2 377.6 THA 2.23

ORBIT DETERMINATION ACCURACY

ST 1754.5 SR 335.1 SS 483.3
 CRT -.3419 CRS .4081 CST -.9970
 LSA 1823.3 MSA 315.5 SSA 13.3
 EL1 1758.3 EL2 314.2 ALF 176.14

LAUNCH DATE FEB 25 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 589.426

RL 148.10 LAL -0.00 LOL 156.22 VL 25.933 GAL 11.68 AZL 91.31 MCA 299.67 SMA 118.52 ECC .31734 INC 1.3054 V1 30.086
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.701 GAP 17.76 AZP 90.65 TAL 152.04 TAP 91.71 RCA 80.91 APO 156.13 V2 35.217
 RC 202.227 GL -4.90 GP -11.69 ZAL 44.28 ZAP 168.19 ETS 264.79 ZAE 131.23 ETE 190.30 ZAC 171.06 ETC 20.73 CLP 178.27

PLANETOCENTRIC CONIC

C3 45.874 VHL 6.773 CLA 16.78 RAL 113.11 RAD 6568.7 VEL 12.932 PTH 2.36 VHP 11.575 DPA 12.73 RAP 94.87 ECC 1.7550
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 41 2971.70 -28.12 94.37 356.40 86.53 7 8 13 2371.7 -28.31 85.71
 90.00 22 48 16 4514.11 10.00 189.69 346.24 63.37 24 3 31 3914.1 6.34 182.92
 100.00 7 49 34 2678.61 -29.80 72.91 356.50 87.49 8 34 13 2078.6 -29.83 64.11
 100.00 0 4 0 4282.43 11.49 171.88 345.46 62.21 1 15 23 3682.4 7.68 165.16
 110.00 9 18 53 2399.17 -34.18 51.80 356.61 90.08 9 58 52 1799.2 -33.79 42.58
 110.00 0 51 11 4134.63 15.31 158.46 343.24 59.06 2 0 6 3534.6 11.10 151.89

DIFFERENTIAL CORRECTIONS

TDE -1.3184 TRA 5.5390 TC3-1.9371 BAU 1.1884
 RDE .3699 RRA .3125 RC3 -.0458 FAU .01001
 FDE -.3860 FRA 1.4463 FC3 -.1889 BSP 18646
 BDE 1.3693 BRA 5.5478 BC3 1.9377 FSP -393

MID-COURSE EXECUTION ACCURACY

SGT 5664.1 SGR 421.9 SG3 116.1
 RRT .4877 RRF .4703 RTF .9579
 SGB 5679.8 R23 .0013 R13 .9579
 SG1 5667.9 SG2 368.1 THA 2.09

ORBIT DETERMINATION ACCURACY

ST 1845.5 SR 323.7 SS 503.7
 CRT -.3803 CRS .4318 CST -.9981
 LSA 1916.9 MSA 299.5 SSA 12.6
 EL1 1849.7 EL2 298.7 ALF 176.08

LAUNCH DATE FEB 25 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 593.839

RL 148.10 LAL -0.00 LOL 156.22 VL 25.895 GAL 12.83 AZL 91.56 HCA 302.91 SMA 118.32 ECC .33102 INC 1.5642 VI 30.086
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.682 GAP 18.64 A7P 90.85 TAL 150.69 TAP 93.59 RCA 79.15 APO 157.48 V2 35.225
 RC 203.880 GL -5.46 GP -11.49 ZAL 42.44 ZAP 168.20 ETS 260.10 ZAE 131.14 ETE 190.09 ZAC 168.83 ETC 18.58 CLP 177.34

PLANETOCENTRIC CONIC

C3 52.563 VHL 7.250 CLA 15.93 RAL 114.97 RAD 6568.9 VEL 13.188 PTH 2.41 VHP 12.107 DPA 12.95 RAP 97.19 ECC 1.8650
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 20 2974.04 -28.11 94.54 .50 86.45 7 23 54 2374.0 -28.31 85.88
 90.00 22 47 29 4579.72 11.97 193.50 350.12 64.15 24 3 49 3979.7 8.40 186.64
 100.00 8 4 31 2683.21 -29.78 73.25 .60 87.31 8 49 14 2083.2 -29.84 64.45
 100.00 0 3 55 4345.78 13.47 175.54 349.36 63.06 1 16 21 3745.8 9.75 168.72
 110.00 9 32 22 2408.31 -34.18 52.51 .74 89.65 10 12 31 1808.3 -33.85 43.28
 110.00 0 52 33 4193.45 17.34 161.81 347.18 60.07 2 2 26 3593.4 13.23 155.11

DIFFERENTIAL CORRECTIONS

TDE-1.5405 TRA 6.0521 TC3-1.6428 BAU 1.1547
 RDE .3821 RRA .3234 RC3 -.0357 FAU .00864
 FDE -.4217 FRA 1.5169 FC3 -.1423 BSP 18676
 BDE 1.5872 BRA 6.0607 BC3 1.6431 FSP -383

MID-COURSE EXECUTION ACCURACY

SGT 5647.5 SGR 405.5 SG3 112.9
 RRT .4704 RRF .4554 RTF .9617
 SGB 5662.1 R23 .0013 R13 .9617
 SG1 5650.8 SG2 357.7 THA 1.94

ORBIT DETERMINATION ACCURACY

ST 1927.1 SR 312.3 SS 524.1
 CRT -.4130 CRS .4526 CST -.9987
 LSA 2001.2 MSA 284.3 SSA 12.0
 EL1 1931.5 EL2 283.8 ALF 176.09

LAUNCH DATE FEB 25 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 597.998

RL 148.10 LAL -0.00 LOL 156.22 VL 25.859 GAL 14.09 AZL 91.84 HCA 306.14 SMA 118.11 ECC .34622 INC 1.8427 VI 30.086
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.662 GAP 19.62 A7P 91.09 TAL 149.41 TAP 95.55 RCA 77.22 APO 159.01 V2 35.232
 RC 205.508 GL -5.95 GP -11.32 ZAL 40.76 ZAP 168.12 ETS 255.27 ZAE 131.01 ETE 189.89 ZAC 166.63 ETC 17.17 CLP 176.37

PLANETOCENTRIC CONIC

C3 60.521 VHL 7.780 CLA 15.13 RAL 116.66 RAD 6569.1 VEL 13.486 PTH 2.47 VHP 12.698 DPA 13.13 RAP 99.48 ECC 1.9960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 28 2980.04 -28.09 94.98 4.51 86.23 7 38 8 2380.0 -28.31 86.32
 90.00 22 46 53 4642.99 13.82 197.22 353.96 65.04 24 4 16 4043.0 10.34 190.27
 100.00 8 18 2 2691.18 -29.76 73.84 4.62 87.00 9 2 54 2091.2 -29.85 65.04
 100.00 0 3 55 4407.09 15.33 179.14 353.21 64.02 1 17 22 3807.1 11.71 172.21
 110.00 9 44 38 2420.25 -34.17 53.45 4.80 89.10 10 24 58 1820.2 -33.92 44.21
 110.00 0 53 49 4250.78 19.26 165.15 351.09 61.20 2 4 40 3650.8 15.26 158.31

DIFFERENTIAL CORRECTIONS

TDE-1.7740 TRA 6.6035 TC3-1.3740 BAU 1.1120
 RDE .3955 RRA .3316 RC3 -.0268 FAU .00725
 FDE -.4577 FRA 1.5931 FC3 -.1037 BSP 18688
 BDE 1.8176 BRA 6.6118 BC3 1.3743 FSP -373

MID-COURSE EXECUTION ACCURACY

SGT 5626.8 SGR 388.0 SG3 109.9
 RRT .4503 RRF .4379 RTF .9656
 SGB 5640.2 R23 .0016 R13 .9656
 SG1 5629.5 SG2 346.3 THA 1.79

ORBIT DETERMINATION ACCURACY

ST 1998.9 SR 301.0 SS 544.8
 CRT -.4417 CRS .4716 CST -.9992
 LSA 2076.1 MSA 269.7 SSA 11.4
 EL1 2003.4 EL2 269.4 ALF 176.12

LAUNCH DATE FEB 25 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 601.847

RL 148.10 LAL -0.00 LOL 156.22 VL 25.823 GAL 15.46 AZL 92.15 HCA 309.37 SMA 117.92 ECC .36315 INC 2.1453 VI 30.086
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.643 GAP 20.71 A7P 91.36 TAL 148.24 TAP 97.61 RCA 75.10 APO 160.75 V2 35.238
 RC 207.111 GL -6.39 GP -11.15 ZAL 39.24 ZAP 167.93 ETS 250.36 ZAE 130.83 ETE 189.68 ZAC 164.46 ETC 16.18 CLP 175.36

PLANETOCENTRIC CONIC

C3 70.037 VHL 8.369 CLA 14.41 RAL 118.19 RAD 6569.3 VEL 13.834 PTH 2.53 VHP 13.358 DPA 13.25 RAP 101.73 ECC 2.1526
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 11 2989.26 -28.04 95.65 8.40 85.89 7 51 0 2389.3 -28.32 87.00
 90.00 22 46 23 4703.84 15.54 200.87 357.73 66.03 24 4 47 4103.8 12.17 193.81
 100.00 8 30 13 2702.10 -29.71 74.65 8.53 86.58 9 15 15 2102.1 -29.87 65.85
 100.00 0 3 58 4466.23 17.06 182.68 357.01 65.08 1 18 24 3866.2 13.56 175.63
 110.00 9 55 42 2434.66 -34.15 54.57 8.76 88.43 10 36 16 1834.7 -33.99 45.33
 110.00 0 54 58 4306.44 21.05 168.48 354.93 62.42 2 6 45 3706.4 17.19 161.48

DIFFERENTIAL CORRECTIONS

TDE-2.0155 TRA 7.2032 TC3-1.1274 BAU 1.0558
 RDE .4104 RRA .3368 RC3 -.0191 FAU .00575
 FDE -.4930 FRA 1.6772 FC3 -.0711 BSP 18560
 BDE 2.0568 BRA 7.2111 BC3 1.1276 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 5602.7 SGR 369.7 SG3 107.0
 RRT .4271 RRF .4176 RTF .9695
 SGB 5614.9 R23 .0023 R13 .9695
 SG1 5604.9 SG2 334.1 THA 1.62

ORBIT DETERMINATION ACCURACY

ST 2059.2 SR 289.9 SS 565.9
 CRT -.4666 CRS .4885 CST -.9995
 LSA 2139.9 MSA 256.0 SSA 10.8
 EL1 2063.8 EL2 255.9 ALF 176.18

LAUNCH DATE FEB 25 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 605.308

RL 148.10 LAL -0.00 LOL 156.22 VL 25.789 GAL 16.97 AZL 92.48 HCA 312.61 SMA 117.74 ECC .38210 INC 2.4775 VI 30.086
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.624 GAP 21.93 A7P 91.68 TAL 147.17 TAP 99.78 RCA 72.75 APO 162.72 V2 35.243
 RC 208.690 GL -6.78 GP -11.00 ZAL 37.89 ZAP 167.62 ETS 245.42 ZAE 130.59 ETE 189.47 ZAC 162.34 ETC 15.46 CLP 174.29

PLANETOCENTRIC CONIC

C3 81.482 VHL 9.027 CLA 13.75 RAL 119.56 RAD 6569.6 VEL 14.242 PTH 2.59 VHP 14.098 DPA 13.32 RAP 103.93 ECC 2.3410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 30 3001.30 -27.98 96.53 12.17 85.46 8 2 31 2401.3 -28.32 87.88
 90.00 22 45 58 4762.10 17.12 204.42 1.42 67.09 24 5 20 4162.1 13.87 197.25
 100.00 8 41 5 2715.61 -29.65 75.65 12.31 86.06 9 26 21 2115.6 -29.89 66.86
 100.00 0 4 0 4523.01 18.66 186.14 .72 66.21 1 19 23 3923.0 15.28 178.97
 110.00 10 5 35 2451.22 -34.11 55.86 12.60 87.67 10 46 26 1851.2 -34.06 46.62
 110.00 0 55 59 4360.17 22.70 171.77 358.70 63.73 2 8 39 3760.2 18.99 164.60

DIFFERENTIAL CORRECTIONS

TDE-2.2778 TRA 7.8455 TC3 -.9084 BAU .9897
 RDE .4268 RRA .3377 RC3 -.0127 FAU .00424
 FDE -.5311 FRA 1.7675 FC3 -.0450 BSP 18569
 BDE 2.3174 BRA 7.8528 BC3 .9085 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 5573.4 SGR 350.1 SG3 104.2
 RRT .3983 RRF .3917 RTF .9733
 SGB 5584.4 R23 .0029 R13 .9733
 SG1 5575.1 SG2 321.1 THA 1.44

ORBIT DETERMINATION ACCURACY

ST 2111.4 SR 278.9 SS 588.9
 CRT -.4922 CRS .5073 CST -.9997
 LSA 2196.3 MSA 242.3 SSA 10.2
 EL1 2116.0 EL2 242.2 ALF 176.23

LAUNCH DATE FEB 25 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 608.289

RL 148.10 LAL -0.00 LOL 156.22 VL 25.756 GAL 18.64 AZL 92.85 HCA 315.84 SMA 117.56 ECC .40337 INC 2.8463 VI 30.086
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.606 GAP 23.31 AZP 92.04 TAL 146.24 TAP 102.08 RCA 70.14 APO 164.98 V2 35.248
 RC 210.244 GL -7.13 GP -10.86 ZAL 36.70 ZAP 167.19 ETS 240.51 ZAE 130.28 ETE 189.25 ZAC 160.29 ETC 14.92 CLP 173.16

PLANETOCENTRIC CONIC

C3 95.338 VHL 9.764 CLA 13.15 RAL 120.76 RAD 6569.9 VEL 14.720 PTH 2.66 VHP 14.932 DPA 13.36 RAP 106.07 ECC 2.5690
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 22 28 3015.77 -27.90 97.58 15.78 84.94 8 12 44 2415.8 -28.31 88.93
 90.00 22 45 34 4817.55 18.55 207.85 4.99 68.22 24 5 52 4217.5 15.43 200.56
 100.00 8 50 39 2731.36 -29.58 76.82 15.94 85.45 9 36 10 2131.4 -29.89 68.03
 100.00 0 4 0 4577.19 20.11 189.51 4.31 67.41 1 20 17 3977.2 16.87 182.21
 110.00 10 14 18 2469.62 -34.05 57.30 16.29 86.82 10 55 28 1869.6 -34.12 48.05
 110.00 0 56 50 4411.69 24.22 175.00 2.36 65.11 2 10 22 3811.7 20.66 167.66

DIFFERENTIAL CORRECTIONS

TDE-2.5561 TRA 8.5439 TC3 -.7115 BAU .9069
 RDE .4451 RRA .3334 RC3 -.0076 FAU .00259
 FDE -.5709 FRA 1.8673 FC3 -.0235 BSP 18551
 BDE 2.5946 BRA 8.5504 BC3 .7115 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5539.7 SGR 329.8 SG3 101.5
 RRT .3630 RRF .3594 RTF .9771
 SGB 5549.5 R23 .0038 R13 .9771
 SG1 5541.0 S62 307.3 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 2153.4 SR 268.0 SS 613.6
 CRT -.5174 CRS .5267 CST -.9998
 LSA 2243.5 MSA 228.9 SSA 9.6
 EL1 2157.9 EL2 228.9 ALF 176.27

LAUNCH DATE FEB 25 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 610.663

RL 148.10 LAL -0.00 LOL 156.22 VL 25.725 GAL 20.50 AZL 93.26 HCA 319.08 SMA 117.40 ECC .42734 INC 3.2606 VI 30.086
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.588 GAP 24.86 AZP 92.46 TAL 145.47 TAP 104.55 RCA 67.23 APO 167.56 V2 35.252
 RC 211.773 GL -7.43 GP -10.72 ZAL 35.68 ZAP 166.62 ETS 235.68 ZAE 129.88 ETE 189.02 ZAC 158.30 ETC 14.52 CLP 171.94

PLANETOCENTRIC CONIC

C3 112.243 VHL 10.594 CLA 12.63 RAL 121.79 RAD 6570.1 VEL 15.283 PTH 2.74 VHP 15.878 DPA 13.36 RAP 108.12 ECC 2.8472
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 31 3 3032.35 -27.79 98.78 19.20 84.34 8 21 36 2432.3 -28.29 90.15
 90.00 22 45 9 4869.90 19.84 211.15 8.40 69.37 24 6 19 4269.9 16.86 203.75
 100.00 8 58 54 2749.02 -29.47 78.12 19.38 84.77 9 44 43 2149.0 -29.89 69.34
 100.00 0 3 55 4628.46 21.42 192.75 7.76 68.63 1 21 4 4028.5 18.32 185.32
 110.00 10 21 49 2489.57 -33.97 58.85 19.81 85.91 11 3 19 1889.6 -34.16 49.61
 110.00 0 57 30 4460.67 25.59 178.15 5.88 66.52 2 11 50 3860.7 22.19 170.64

DIFFERENTIAL CORRECTIONS

TDE-2.8525 TRA 9.3064 TC3 -.5352 BAU .8031
 RDE .4658 RRA .3228 RC3 -.0036 FAU .00073
 FDE -.6129 FRA 1.9785 FC3 -.0057 BSP 18505
 BDE 2.8903 BRA 9.3120 BC3 .5352 FSP -335

MID-COURSE EXECUTION ACCURACY

SGT 5501.7 SGR 309.0 SG3 99.0
 RRT .3192 RRF .3185 RTF .9806
 SGB 5510.4 R23 .0048 R13 .9806
 SG1 5502.6 S62 292.8 THA 1.03

ORBIT DETERMINATION ACCURACY

ST 2185.2 SR 257.5 SS 640.7
 CRT -.5429 CRS .5474 CST -.9999
 LSA 2281.5 MSA 215.8 SSA 9.1
 EL1 2189.7 EL2 215.8 ALF 176.30

LAUNCH DATE FEB 25 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 612.267

RL 148.10 LAL -0.00 LOL 156.22 VL 25.696 GAL 22.58 AZL 93.73 HCA 322.31 SMA 117.24 ECC .45444 INC 3.7329 VI 30.086
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.570 GAP 26.64 AZP 92.96 TAL 144.91 TAP 107.22 RCA 63.96 APO 170.52 V2 35.255
 RC 213.276 GL -7.70 GP -10.59 ZAL 34.85 ZAP 165.89 ETS 230.96 ZAE 129.38 ETE 188.77 ZAC 156.42 ETC 14.22 CLP 170.63

PLANETOCENTRIC CONIC

C3 133.042 VHL 11.534 CLA 12.18 RAL 122.63 RAD 6570.4 VEL 15.949 PTH 2.82 VHP 16.958 DPA 13.34 RAP 110.08 ECC 3.1895
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 38 13 3050.75 -27.66 100.11 22.40 83.69 8 29 4 2450.8 -28.25 91.49
 90.00 22 44 41 4918.77 20.98 214.28 11.62 70.54 24 6 40 4318.8 18.14 206.76
 100.00 9 5 47 2768.33 -29.34 79.54 22.61 84.03 9 51 56 2168.3 -29.86 70.78
 100.00 0 3 44 4676.42 22.57 195.85 11.00 69.87 1 21 41 4076.4 19.63 188.29
 110.00 10 28 4 2510.80 -33.85 60.50 23.12 84.94 11 9 56 1910.8 -34.18 51.27
 110.00 0 57 55 4506.72 26.80 181.18 9.21 67.94 2 13 2 3906.7 23.57 173.51

DIFFERENTIAL CORRECTIONS

TDE-3.1696 TRA10.1412 TC3 -.3786 BAU .6733
 RDE .4894 RRA .3040 RC3 -.0007 FAU-.00140
 FDE -.6579 FRA 2.1032 FC3 .0091 BSP 18440
 BDE 3.2071 BRA10.1458 BC3 .3786 FSP -326

MID-COURSE EXECUTION ACCURACY

SGT 5459.0 SGR 288.0 SG3 96.6
 RRT .2638 RRF .2660 RTF .9839
 SGB 5466.6 R23 .0059 R13 .9839
 SG1 5459.6 S62 277.8 THA .80

ORBIT DETERMINATION ACCURACY

ST 2206.8 SR 247.5 SS 670.8
 CRT -.5696 CRS .5700 CST -.9999
 LSA 2310.8 MSA 203.0 SSA 8.5
 EL1 2211.3 EL2 203.0 ALF 176.31

LAUNCH DATE FEB 25 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 612.883

RL 148.10 LAL -0.00 LOL 156.22 VL 25.670 GAL 24.94 AZL 94.28 HCA 325.54 SMA 117.10 ECC .48520 INC 4.2798 VI 30.086
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.555 GAP 28.67 AZP 93.53 TAL 144.59 TAP 110.13 RCA 60.28 APO 173.92 V2 35.258
 RC 214.754 GL -7.92 GP -10.46 ZAL 34.22 ZAP 165.00 ETS 226.38 ZAE 128.76 ETE 188.49 ZAC 154.65 ETC 14.00 CLP 169.19

PLANETOCENTRIC CONIC

C3 158.874 VHL 12.605 CLA 11.81 RAL 123.26 RAD 6570.7 VEL 16.739 PTH 2.90 VHP 18.198 DPA 13.30 RAP 111.91 ECC 3.6147
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 43 53 3070.76 -27.50 101.55 25.35 82.98 8 35 4 2470.8 -28.19 92.95
 90.00 22 44 7 4963.72 21.97 217.21 14.59 71.68 24 6 51 4363.7 19.27 209.58
 100.00 9 11 13 2789.08 -29.19 81.06 25.58 83.24 9 57 43 2189.1 -29.82 72.32
 100.00 0 3 24 4720.64 23.58 198.75 14.00 71.08 1 22 4 4120.6 20.78 191.07
 110.00 10 33 2 2533.09 -33.70 62.22 26.18 83.93 11 15 15 1933.1 -34.18 53.01
 110.00 0 58 5 4549.39 27.86 184.05 12.29 69.34 2 13 54 3949.4 24.79 176.22

DIFFERENTIAL CORRECTIONS

TDE-3.5059 TRA11.0608 TC3 -.2394 BAU .5086
 RDE .5168 RRA .2750 RC3 .0011 FAU-.00396
 FDE -.7059 FRA 2.2444 FC3 .0216 BSP 18278
 BDE 3.5438 BRA11.0642 BC3 .2394 FSP -317

MID-COURSE EXECUTION ACCURACY

SGT 5411.9 SGR 267.4 SG3 94.3
 RRT .1935 RRF .1982 RTF .9870
 SGB 5418.5 R23 .0069 R13 .9870
 SG1 5412.2 S62 262.3 THA .55

ORBIT DETERMINATION ACCURACY

ST 2216.9 SR 238.0 SS 704.5
 CRT -.5976 CRS .5945 CST -.9999
 LSA 2330.5 MSA 190.6 SSA 7.9
 EL1 2221.5 EL2 190.5 ALF 176.30

LAUNCH DATE FEB 26 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 7 1969

HELIOCENTRIC CONIC

DISTANCE 192.816

RL 148.13 LAL -.00 LOL 157.23 VL 27.825 GAL -10.27 AZL 89.27 HCA 86.81 SMA 130.41 ECC .22289 INC .7287 V1 30.079
 RP 108.49 LAP .73 LOP 244.03 VP 37.801 GAP -8.54 AZP 89.96 TAL 222.88 TAP 309.69 RCA 101.35 APO 159.48 V2 34.929
 RC 58.051 GL 3.32 GP 19.15 ZAL 153.12 ZAP 29.05 ETS 324.23 ZAE 147.07 ETE 25.61 ZAC 125.58 ETC 148.29 CLP -22.27

PLANETOCENTRIC CONIC

C3 36.246 VHL 6.020 DLA 4.60 RAL 2.27 RAD 6568.4 VEL 12.555 PTH 2.28 VHP 6.671 DPA 31.31 RAP 32.21 ECC 1.5965
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 9 2504.41 -25.38 60.70 235.40 102.99 1 15 54 1904.4 -23.34 52.63
 90.00 13 40 41 4862.56 19.66 210.68 232.40 69.21 15 1 44 4262.6 16.66 203.30
 100.00 1 57 40 2235.08 -26.65 40.56 235.06 104.06 2 34 55 1635.1 -24.46 32.45
 100.00 14 59 52 4607.12 20.88 191.40 231.89 68.11 16 16 39 4007.1 17.73 184.02
 110.00 3 10 51 2005.98 -30.08 22.08 233.97 107.07 3 44 17 1406.0 -27.45 13.88
 110.00 16 3 9 4408.98 24.14 174.83 230.36 65.03 17 16 38 3809.0 20.57 167.50

DIFFERENTIAL CORRECTIONS

TOE -.1597 TRA -.2978 TC3 .3783 BAU .2116
 ROE -.3329 RRA .2754 RC3 .2183 FAU .05474
 FDE -.3662 FRA -.5671 FC3-1.3073 BSP 1588
 BOE .3692 BRA .4056 BC3 .4368 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 558.0 SGR 488.4 SG3 146.9
 RRT .3417 RRF -.5366 RTF -.5376
 SGB 741.6 R23 -1.131 R13 -.6459
 SG1 612.3 SG2 418.3 THA 34.32

ORBIT DETERMINATION ACCURACY

ST 174.8 SR 326.5 SS 223.3
 CRT .7274 CRS -.7685 CST -.9772
 LSA 405.1 MSA 148.7 SSA 28.3
 EL1 353.4 EL2 110.8 ALF 66.25

LAUNCH DATE FEB 26 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 199.549

RL 148.13 LAL -.00 LOL 157.23 VL 27.936 GAL -10.19 AZL 89.46 HCA 89.99 SMA 131.21 ECC .21775 INC .5422 V1 30.079
 RP 108.53 LAP .54 LOP 247.21 VP 37.871 GAP -7.73 AZP 90.00 TAL 224.16 TAP 314.15 RCA 102.64 APO 159.79 V2 34.917
 RC 59.985 GL 2.51 GP 20.45 ZAL 154.13 ZAP 32.36 ETS 326.90 ZAE 147.00 ETE 28.79 ZAC 124.69 ETC 147.69 CLP -25.65

PLANETOCENTRIC CONIC

C3 35.364 VHL 5.947 DLA 3.49 RAL 1.74 RAD 6568.4 VEL 12.519 PTH 2.27 VHP 6.279 DPA 32.43 RAP 31.40 ECC 1.5820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 22 2463.51 -24.73 57.89 233.97 104.26 1 21 26 1863.5 -22.53 49.91
 90.00 13 30 14 4891.00 20.34 212.50 231.71 69.87 14 51 45 4291.0 17.42 205.04
 100.00 2 3 21 2195.88 -25.98 37.84 233.60 105.34 2 39 57 1595.9 -23.62 29.83
 100.00 14 49 57 4633.87 21.55 193.10 231.22 68.77 16 7 11 4033.9 18.47 185.66
 110.00 3 15 20 1970.57 -29.34 19.59 232.45 108.38 3 48 10 1370.6 -26.55 11.51
 110.00 15 54 27 4431.93 24.79 176.29 229.74 65.68 17 8 19 3831.9 21.30 168.89

DIFFERENTIAL CORRECTIONS

TOE -.1507 TRA -.2958 TC3 .3814 BAU .2172
 ROE -.3144 RRA .2902 RC3 .2561 FAU .06021
 FDE -.4470 FRA -.6463 FC3-1.4741 BSP 1635
 BOE .3486 BRA .4144 BC3 .4594 FSP -445

MID-COURSE EXECUTION ACCURACY

SGT 555.3 SGR 512.9 SG3 165.0
 RRT .3588 RRF -.5904 RTF -.5230
 SGB 755.9 R23 -1.1279 R13 -.6658
 SG1 624.8 SG2 425.5 THA 38.74

ORBIT DETERMINATION ACCURACY

ST 169.1 SR 314.5 SS 256.4
 CRT .6939 CRS -.7688 CST -.9741
 LSA 410.2 MSA 155.4 SSA 28.6
 EL1 338.7 EL2 113.1 ALF 66.80

LAUNCH DATE FEB 26 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 206.253

RL 148.13 LAL -.00 LOL 157.23 VL 28.032 GAL -10.12 AZL 89.64 HCA 93.17 SMA 131.91 ECC .21333 INC .3559 V1 30.079
 RP 108.57 LAP .36 LOP 250.39 VP 37.931 GAP -6.95 AZP 90.02 TAL 225.32 TAP 318.49 RCA 103.77 APO 160.05 V2 34.906
 RC 61.981 GL 1.67 GP 21.85 ZAL 155.00 ZAP 35.89 ETS 329.30 ZAE 147.04 ETE 32.41 ZAC 123.59 ETC 147.21 CLP -29.21

PLANETOCENTRIC CONIC

C3 34.610 VHL 5.883 DLA 2.40 RAL 1.33 RAD 6568.4 VEL 12.489 PTH 2.26 VHP 5.923 DPA 33.57 RAP 30.33 ECC 1.5696
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 52 2424.13 -24.04 55.21 232.75 105.43 1 27 17 1824.1 -21.69 47.32
 90.00 13 20 28 4919.50 21.00 214.33 231.21 70.55 14 42 28 4319.5 18.16 206.81
 100.00 2 9 20 2158.16 -25.27 35.26 232.36 106.52 2 45 18 1558.2 -22.77 27.36
 100.00 14 40 42 4660.70 22.20 194.83 230.74 69.45 15 58 22 4060.7 19.21 187.31
 110.00 3 20 8 1936.53 -28.59 17.22 231.15 109.59 3 52 25 1336.5 -25.65 9.28
 110.00 15 46 23 4455.09 25.43 177.79 229.31 66.35 17 0 38 3855.1 22.02 170.30

DIFFERENTIAL CORRECTIONS

TOE -.1423 TRA -.2969 TC3 .3786 BAU .2231
 ROE -.2929 RRA .3068 RC3 .2987 FAU .06621
 FDE -.5403 FRA -.7313 FC3-1.6562 BSP 1709
 BOE .3257 BRA .4269 BC3 .4822 FSP -510

MID-COURSE EXECUTION ACCURACY

SGT 549.0 SGR 542.6 SG3 185.0
 RRT .3678 RRF -.6440 RTF -.5010
 SGB 771.9 R23 -1.1374 R13 -.6903
 SG1 638.4 SG2 433.9 THA 44.09

ORBIT DETERMINATION ACCURACY

ST 164.1 SR 299.3 SS 292.2
 CRT .6496 CRS -.7626 CST -.9682
 LSA 418.2 MSA 161.7 SSA 28.7
 EL1 320.9 EL2 116.4 ALF 67.23

LAUNCH DATE FEB 26 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 212.927

RL 148.13 LAL -.00 LOL 157.23 VL 28.113 GAL -10.05 AZL 89.83 HCA 96.35 SMA 132.52 ECC .20954 INC .1683 V1 30.079
 RP 108.60 LAP .17 LOP 253.57 VP 37.981 GAP -6.22 AZP 90.02 TAL 226.33 TAP 322.67 RCA 104.75 APO 160.28 V2 34.894
 RC 64.032 GL .80 GP 23.36 ZAL 155.73 ZAP 39.64 ETS 331.53 ZAE 147.13 ETE 36.32 ZAC 122.27 ETC 146.85 CLP -32.98

PLANETOCENTRIC CONIC

C3 33.958 VHL 5.827 DLA 1.33 RAL 1.04 RAD 6568.3 VEL 12.463 PTH 2.25 VHP 5.600 DPA 34.71 RAP 28.98 ECC 1.5589
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 41 2386.07 -23.33 52.65 231.74 106.52 1 33 27 1786.1 -20.84 44.86
 90.00 13 11 21 4947.97 21.63 216.18 230.90 71.27 14 33 49 4348.0 18.88 208.59
 100.00 2 15 38 2121.70 -24.54 32.80 231.33 107.62 2 51 0 1521.7 -21.90 24.99
 100.00 14 32 5 4687.56 22.83 196.57 230.44 70.17 15 50 12 4087.6 19.92 188.99
 110.00 3 25 18 1903.67 -27.82 14.98 230.06 110.72 3 57 2 1303.7 -24.74 7.15
 110.00 15 38 55 4478.36 26.06 179.31 229.05 67.05 16 53 33 3878.4 22.72 171.74

DIFFERENTIAL CORRECTIONS

TOE -.1377 TRA -.3043 TC3 .3659 BAU .2285
 ROE -.2688 RRA .3243 RC3 .3457 FAU .07249
 FDE -.6427 FRA -.8164 FC3-1.8481 BSP 1758
 BOE .3020 BRA .4447 BC3 .5033 FSP -576

MID-COURSE EXECUTION ACCURACY

SGT 538.3 SGR 577.8 SG3 206.0
 RRT .3605 RRF -.6946 RTF -.4618
 SGB 789.7 R23 -1.1415 R13 -.7168
 SG1 652.8 SG2 444.4 THA 50.57

ORBIT DETERMINATION ACCURACY

ST 163.0 SR 281.4 SS 328.7
 CRT .5966 CRS -.7492 CST -.9607
 LSA 430.2 MSA 166.9 SSA 28.6
 EL1 301.3 EL2 122.1 ALF 66.94

LAUNCH DATE FEB 26 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 219.568

RL 148.13 LAL -.00 LOL 157.23 VL 28.182 GAL -9.98 AZL 90.02 MCA 99.52 SMA 133.03 ECC .20627 INC .0156 V1 30.079
 RP 108.64 LAP -.02 LOP 256.74 VP 38.022 GAP -5.52 AZP 90.00 TAP 227.19 TAP 326.71 RCA 105.59 APO 160.47 V2 34.883
 RC 66.131 GL -.10 GP 24.98 ZAL 156.32 ZAP 43.59 ETS 333.67 ZAE 147.24 ETE 41.17 ZAC 120.72 ETC 146.65 CLP -36.97

PLANETOCENTRIC CONIC

C3 33.388 VHL 5.778 DLA .27 RAL .87 RAD 6568.3 VEL 12.440 PTH 2.25 VHP 5.313 DPA 35.86 RAP 27.32 ECC 1.5495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 50 2349.06 -22.59 50.18 230.91 107.55 1 39 59 1749.1 -19.98 42.49
 90.00 13 2 50 4976.44 -22.24 218.04 230.74 72.01 14 25 47 4376.4 -19.58 210.38
 100.00 2 22 18 2086.27 -23.79 30.43 230.49 108.65 2 57 4 1486.3 -21.02 22.73
 100.00 14 24 3 4714.45 -23.44 198.34 230.31 70.90 15 42 38 4114.5 -20.62 190.68
 110.00 3 30 50 1871.76 -27.03 12.83 229.17 111.77 4 2 1 1271.8 -23.83 5.12
 110.00 15 32 1 4501.73 26.67 180.85 228.96 67.78 16 47 3 3901.7 23.42 173.19

DIFFERENTIAL CORRECTIONS

TDE -.1360 TRA -.3170 TC3 .3437 BAU .2345
 RDE -.2413 RRA .3427 RC3 .3974 FAU .07901
 FDE -.7558 FRA -.9014 FC3-2.0488 BSP 1820
 BOE .2769 BRA .4668 BC3 .5254 FSP -647

MID-COURSE EXECUTION ACCURACY

SGT 524.2 SGR 619.4 SG3 228.0
 RRT .3322 RRF -.7412 RTF -.4037
 SGB 811.4 R23 -.1324 R13 -.7482
 SG1 670.8 SG2 456.5 THA 58.39

ORBIT DETERMINATION ACCURACY

ST 165.0 SR 260.4 SS 366.8
 CRT .5309 CRS -.7255 CST -.9519
 LSA 449.4 MSA 170.5 SSA 28.5
 EL1 276.9 EL2 130.3 ALF 65.83

LAUNCH DATE FEB 26 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 226.175

RL 148.13 LAL -.00 LOL 157.23 VL 28.238 GAL -9.91 AZL 90.21 MCA 102.69 SMA 133.45 ECC .20344 INC .2134 V1 30.079
 RP 108.67 LAP -.21 LOP 259.92 VP 38.054 GAP -4.85 AZP 89.95 TAP 227.90 TAP 330.60 RCA 106.30 APO 160.60 V2 34.873
 RC 68.274 GL -1.04 GP 26.68 ZAL 156.77 ZAP 47.75 ETS 335.79 ZAE 147.29 ETE 46.38 ZAC 118.95 ETC 146.63 CLP -41.19

PLANETOCENTRIC CONIC

C3 32.883 VHL 5.734 DLA -.78 RAL .81 RAD 6568.3 VEL 12.420 PTH 2.24 VHP 5.060 DPA 36.99 RAP 25.34 ECC 1.5412
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 21 2312.82 -21.83 47.80 230.27 108.50 1 46 54 1712.8 -19.10 40.19
 90.00 12 54 52 5004.99 -22.83 219.93 230.75 72.78 14 18 17 4405.0 -20.26 212.20
 100.00 2 29 20 2051.60 -23.02 28.15 229.82 109.62 3 3 31 1451.6 -20.13 20.54
 100.00 14 16 34 4741.44 -24.03 200.13 230.33 71.67 15 35 36 4141.4 -21.30 192.39
 110.00 3 36 45 1840.57 -26.22 10.76 228.45 112.75 4 7 25 1240.6 -22.91 3.17
 110.00 15 25 39 4525.24 27.27 182.42 229.03 68.54 16 41 4 3925.2 24.10 174.68

DIFFERENTIAL CORRECTIONS

TDE -.1374 TRA -.3345 TC3 .3121 BAU .2423
 RDE -.2096 RRA .3622 RC3 .4542 FAU .08571
 FDE -.8803 FRA -.9849 FC3-2.2565 BSP 1924
 BOE .2506 BRA .4930 BC3 .5511 FSP -725

MID-COURSE EXECUTION ACCURACY

SGT 508.6 SGR 667.9 SG3 251.0
 RRT .2774 RRF -.7833 RTF -.3226
 SGB 839.5 R23 -.1054 R13 -.7839
 SG1 696.6 SG2 468.5 THA 67.42

ORBIT DETERMINATION ACCURACY

ST 170.3 SR 236.4 SS 407.0
 CRT .4477 CRS -.6857 CST -.9428
 LSA 469.1 MSA 172.3 SSA 28.2
 EL1 254.8 EL2 141.3 ALF 63.35

LAUNCH DATE FEB 26 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 232.749

RL 148.13 LAL -.00 LOL 157.23 VL 28.283 GAL -9.85 AZL 90.41 MCA 105.86 SMA 133.80 ECC .20098 INC .4113 V1 30.079
 RP 108.70 LAP -.40 LOP 263.09 VP 38.078 GAP -4.22 AZP 89.89 TAP 228.47 TAP 334.33 RCA 106.91 APO 160.69 V2 34.864
 RC 70.456 GL -2.01 GP 28.47 ZAL 157.07 ZAP 52.08 ETS 337.95 ZAE 147.22 ETE 52.14 ZAC 116.98 ETC 146.80 CLP -45.64

PLANETOCENTRIC CONIC

C3 32.429 VHL 5.695 DLA -1.82 RAL .87 RAD 6568.3 VEL 12.402 PTH 2.24 VHP 4.841 DPA 38.08 RAP 23.06 ECC 1.5337
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 17 2277.07 -21.03 45.48 229.78 109.41 1 54 14 1677.1 -18.20 37.95
 90.00 12 47 23 5033.73 23.40 221.84 230.91 73.58 14 11 17 4433.7 -20.92 214.04
 100.00 2 36 47 2017.41 -22.22 25.92 229.32 110.53 3 10 25 1417.4 -19.23 18.40
 100.00 14 9 34 4768.63 24.60 201.94 230.51 72.46 15 29 3 4168.6 21.97 194.14
 110.00 3 43 5 1809.85 -25.40 8.76 227.91 113.68 4 13 15 1209.9 -21.98 1.27
 110.00 15 19 45 4548.95 27.85 184.02 229.26 69.32 16 35 34 3949.0 24.78 176.19

DIFFERENTIAL CORRECTIONS

TDE -.1448 TRA -.3595 TC3 .2677 BAU .2515
 RDE -.1746 RRA .3810 RC3 .5146 FAU .09214
 FDE -1.0093 FRA -1.0582 FC3-2.4598 BSP 2030
 BOE .2268 BRA .5238 BC3 .5800 FSP -799

MID-COURSE EXECUTION ACCURACY

SGT 495.1 SGR 722.1 SG3 273.4
 RRT .1833 RRF -.8192 RTF -.2047
 SGB 875.5 R23 -.0647 R13 -.8185
 SG1 732.2 SG2 480.0 THA 77.31

ORBIT DETERMINATION ACCURACY

ST 181.9 SR 210.7 SS 446.7
 CRT .3461 CRS -.6228 CST -.9362
 LSA 496.6 MSA 172.3 SSA 27.9
 EL1 230.6 EL2 156.0 ALF 56.54

LAUNCH DATE FEB 26 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 239.288

RL 148.13 LAL -.00 LOL 157.23 VL 28.319 GAL -9.78 AZL 90.62 MCA 109.03 SMA 134.07 ECC .19884 INC .6152 V1 30.079
 RP 108.73 LAP -.58 LOP 266.26 VP 38.095 GAP -3.61 AZP 89.80 TAP 228.89 TAP 337.92 RCA 107.41 APO 160.72 V2 34.853
 RC 72.672 GL -3.04 GP 30.32 ZAL 157.22 ZAP 56.56 ETS 340.21 ZAE 146.95 ETE 58.38 ZAC 114.83 ETC 147.18 CLP -50.33

PLANETOCENTRIC CONIC

C3 32.018 VHL 5.658 DLA -2.86 RAL 1.04 RAD 6568.3 VEL 12.385 PTH 2.24 VHP 4.657 DPA 39.11 RAP 20.48 ECC 1.5269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 24 42 2241.49 -20.21 43.19 229.46 110.26 2 2 4 1641.5 -17.27 35.75
 90.00 12 40 18 5062.88 23.94 223.80 231.22 74.41 14 4 41 4462.9 -21.58 215.93
 100.00 2 44 43 1983.40 -21.39 23.73 228.98 111.39 3 17 46 1383.4 -18.30 16.31
 100.00 14 2 59 4796.21 25.16 203.81 230.83 73.30 15 22 55 4196.2 22.63 195.92
 110.00 3 49 54 1779.34 -24.55 6.79 227.52 114.57 4 19 33 1179.3 -21.03 359.42
 110.00 15 14 17 4573.03 28.41 185.66 229.63 70.15 16 30 30 3973.0 25.45 177.74

DIFFERENTIAL CORRECTIONS

TDE -.1569 TRA -.3896 TC3 .2125 BAU .2641
 RDE -.1349 RRA .3996 RC3 .5793 FAU .09832
 FDE -1.1463 FRA -1.1232 FC3-2.6584 BSP 2198
 BOE .2070 BRA .5581 BC3 .6170 FSP -877

MID-COURSE EXECUTION ACCURACY

SGT 489.0 SGR 782.6 SG3 295.5
 RRT .0505 RRF -.8500 RTF -.0533
 SGB 922.8 R23 -.0169 R13 -.8499
 SG1 783.3 SG2 487.9 THA 87.05

ORBIT DETERMINATION ACCURACY

ST 198.4 SR 183.9 SS 488.2
 CRT .2043 CRS -.5167 CST -.9319
 LSA 530.8 MSA 170.4 SSA 27.6
 EL1 211.0 EL2 169.2 ALF 34.84

LAUNCH DATE FEB 26 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 245.792
 RL 148.13 LAL -.00 LOL 157.23 VL 28.344 GAL -9.71 AZL 90.83 MCA 112.20 SMA 134.26 ECC .19695 INC .8272 V1 30.079
 RP 108.76 LAP -.77 LOP 269.42 VP 38.106 GAP -3.04 AZP 89.69 TAL 229.17 TAP 341.37 RCA 107.82 APO 160.71 V2 34.844
 RC 74.919 GL -4.11 GP 32.20 ZAL 157.22 ZAP 61.15 ETS 342.60 ZAE 146.42 ETE 64.98 ZAC 112.54 ETC 147.75 CLP -55.23

PLANETOCENTRIC CONIC

C3 31.640 VHL 5.625 DLA -3.91 RAL 1.32 RAD 6568.3 VEL 12.370 PTH 2.23 VHP 4.508 DPA 40.06 RAP 17.62 ECC 1.5207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 41 2205.74 -19.35 40.92 229.29 111.08 2 10 26 1605.7 -16.32 33.56
 90.00 12 33 33 5092.67 24.47 225.83 231.67 75.30 13 58 26 4492.7 22.22 217.88
 100.00 2 53 11 1949.25 -20.53 21.57 228.79 112.22 3 25 41 1349.2 -17.33 14.23
 100.00 13 56 43 4824.40 25.69 205.73 231.31 74.17 15 17 8 4224.4 23.27 197.77
 110.00 3 57 14 1748.75 -23.67 4.85 227.29 115.41 4 26 23 1148.8 -20.05 357.58
 110.00 15 9 10 4597.66 28.97 187.36 230.15 71.01 16 25 48 3997.7 26.11 179.35

DIFFERENTIAL CORRECTIONS

TDE -.1772 TRA -.4272 TC3 .1428 BAU .2796
 RDE -.0922 RRA .4156 RC3 .6453 FAU .10363
 FDE -1.2803 FRA -1.1683 FC3 -2.8354 BSP .2388
 BOE .1997 BRA .5960 BC3 .6609 FSP .944

MID-COURSE EXECUTION ACCURACY

SGT 498.6 SGR 846.1 SG3 315.1
 RRT -.1220 RRF -.8749 RTF .1337
 SGB 982.1 R23 .0280 R13 -.8748
 SG1 849.4 SG2 492.9 THA 96.21

ORBIT DETERMINATION ACCURACY

ST 223.0 SR 159.7 SS 528.1
 CRT .0111 CRS -.3456 CST -.9320
 LSA 570.5 MSA 167.1 SSA 27.2
 EL1 223.0 EL2 159.6 ALF .94

LAUNCH DATE FEB 26 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 252.261
 RL 148.13 LAL -.00 LOL 157.23 VL 28.362 GAL -9.63 AZL 91.05 MCA 115.36 SMA 134.40 ECC .19528 INC 1.0485 V1 30.079
 RP 108.78 LAP -.95 LOP 272.59 VP 38.112 GAP -2.49 AZP 89.55 TAL 229.32 TAP 344.68 RCA 108.15 APO 160.65 V2 34.835
 RC 77.194 GL -5.25 GP 34.10 ZAL 157.07 ZAP 65.80 ETS 345.15 ZAE 145.58 ETE 71.78 ZAC 110.13 ETC 148.52 CLP -60.33

PLANETOCENTRIC CONIC

C3 31.294 VHL 5.594 DLA -4.98 RAL 1.70 RAD 6568.2 VEL 12.356 PTH 2.23 VHP 4.394 DPA 40.93 RAP 14.55 ECC 1.5150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 17 2169.44 -18.45 38.64 229.27 111.87 2 19 27 1569.4 -15.32 31.37
 90.00 12 27 2 5123.43 24.99 227.93 232.27 76.23 13 52 25 4523.4 22.85 219.92
 100.00 3 2 17 1914.61 -19.62 19.39 228.76 113.01 3 34 12 1314.6 -16.34 12.14
 100.00 13 50 43 4853.50 26.22 207.73 231.93 75.10 15 11 37 4253.5 23.92 199.69
 110.00 4 5 9 1717.79 -22.75 2.92 227.22 116.23 4 33 47 1117.8 -19.04 355.74
 110.00 15 4 21 4623.08 29.52 189.13 230.82 71.93 16 21 24 4023.1 26.77 181.03

DIFFERENTIAL CORRECTIONS

TDE -.2044 TRA -.4694 TC3 .0616 BAU .2994
 RDE -.0450 RRA .4294 RC3 .7130 FAU .10810
 FDE -1.4143 FRA -1.1970 FC3 -2.9905 BSP .2650
 + BOE .2093 BRA .6361 BC3 .7157 FSP .1010

MID-COURSE EXECUTION ACCURACY

SGT 530.5 SGR 912.9 SG3 332.5
 RRT -.3064 RRF -.8954 RTF .3265
 SGB 1055.9 R23 .0640 R13 -.8948
 SG1 933.1 SG2 494.0 THA 104.13

ORBIT DETERMINATION ACCURACY

ST 254.5 SR 142.3 SS 568.7
 CRT -.2614 CRS -.0728 CST -.9348
 LSA 617.5 MSA 162.6 SSA 26.7
 EL1 258.3 EL2 135.3 ALF 168.49

LAUNCH DATE FEB 26 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 258.696
 RL 148.13 LAL -.00 LOL 157.23 VL 28.372 GAL -9.55 AZL 91.28 MCA 118.53 SMA 134.47 ECC .19379 INC 1.2818 V1 30.079
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.112 GAP -1.96 AZP 89.39 TAL 229.34 TAP 347.86 RCA 108.41 APO 160.53 V2 34.827
 RC 79.493 GL -6.46 GP 35.99 ZAL 156.77 ZAP 70.46 ETS 347.88 ZAE 144.40 ETE 78.58 ZAC 107.66 ETC 149.46 CLP -65.59

PLANETOCENTRIC CONIC

C3 30.977 VHL 5.566 DLA -6.08 RAL 2.20 RAD 6568.2 VEL 12.343 PTH 2.23 VHP 4.313 DPA 41.70 RAP 11.32 ECC 1.5098
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 39 2132.20 -17.49 36.33 229.40 112.63 2 29 11 1532.2 -14.27 29.13
 90.00 12 20 39 5155.55 25.49 230.15 233.03 77.23 13 46 35 4555.6 23.48 222.06
 100.00 3 12 6 1879.11 -18.66 17.19 228.87 113.78 3 43 26 1279.1 -15.29 10.02
 100.00 13 44 53 4883.88 26.73 209.84 232.70 76.10 15 6 17 4283.9 24.56 201.72
 110.00 4 13 45 1686.13 -21.79 .97 227.29 117.02 4 41 51 1086.1 -17.99 353.89
 110.00 14 59 44 4649.62 30.07 191.01 231.65 72.92 16 17 14 4049.6 27.44 182.80

DIFFERENTIAL CORRECTIONS

TDE -.2415 TRA -.5173 TC3 -.0333 BAU .3226
 RDE .0041 RRA .4380 RC3 .7783 FAU .11110
 FDE -1.5352 FRA -1.1981 FC3 -3.1051 BSP .2939
 BOE .2415 BRA .6778 BC3 .7790 FSP .1056

MID-COURSE EXECUTION ACCURACY

SGT 591.6 SGR 977.8 SG3 345.4
 RRT -.4771 RRF -.9116 RTF .5011
 SGB 1142.9 R23 .0919 R13 -.9101
 SG1 1031.0 SG2 493.1 THA 111.16

ORBIT DETERMINATION ACCURACY

ST 296.0 SR 138.6 SS 606.3
 CRT -.5594 CRS .2663 CST -.9402
 LSA 670.0 MSA 157.4 SSA 26.1
 EL1 307.6 EL2 110.5 ALF 163.08

LAUNCH DATE FEB 26 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 265.098
 RL 148.13 LAL -.00 LOL 157.23 VL 28.374 GAL -9.46 AZL 91.53 MCA 121.69 SMA 134.50 ECC .19245 INC 1.5294 V1 30.079
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.107 GAP -1.46 AZP 89.20 TAL 229.23 TAP 350.92 RCA 108.61 APO 160.38 V2 34.820
 RC 81.813 GL -7.75 GP 37.84 ZAL 156.30 ZAP 75.07 ETS 350.81 ZAE 142.90 ETE 85.20 ZAC 105.17 ETC 150.55 CLP -70.96

PLANETOCENTRIC CONIC

C3 30.691 VHL 5.540 DLA -7.23 RAL 2.82 RAD 6568.2 VEL 12.331 PTH 2.22 VHP 4.266 DPA 42.37 RAP 8.00 ECC 1.5051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 54 2093.56 -16.46 33.96 229.69 113.37 2 39 47 1493.6 -13.16 26.84
 90.00 12 14 18 5189.53 25.98 232.52 233.95 78.32 13 40 48 4589.5 24.11 224.35
 100.00 3 22 47 1842.32 -17.64 14.94 229.14 114.53 3 53 29 1242.3 -14.18 7.86
 100.00 13 39 6 4916.00 27.24 212.10 233.64 77.18 15 1 2 4316.0 25.20 203.89
 110.00 4 23 6 1653.42 -20.76 358.98 227.51 117.79 4 50 40 1053.4 -16.88 352.01
 110.00 14 55 16 4677.66 30.61 193.01 232.65 73.99 16 13 14 4077.7 28.11 184.70

DIFFERENTIAL CORRECTIONS

TDE -.2882 TRA -.5687 TC3 -.1395 BAU .3494
 RDE .0560 RRA .4411 RC3 .8400 FAU .11261
 FDE -1.6441 FRA -1.1738 FC3 -3.1766 BSP .3275
 BOE .2936 BRA .7197 BC3 .8515 FSP .1087

MID-COURSE EXECUTION ACCURACY

SGT 681.4 SGR 1039.7 SG3 353.9
 RRT -.6123 RRF -.9244 RTF .6365
 SGB 1243.1 R23 .1129 R13 -.9218
 SG1 1142.3 SG2 490.4 THA 117.30

ORBIT DETERMINATION ACCURACY

ST 347.2 SR 152.2 SS 642.4
 CRT -.7934 CRS .5731 CST -.9465
 LSA 729.8 MSA 151.8 SSA 25.5
 EL1 368.9 EL2 87.2 ALF 159.63

LAUNCH DATE FEB 26 1969

FLIGHT TIME 94.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -.00 LOL 157.23 VL 28.371 GAL -9.37 AZL 91.79 HCA 124.85 SMA 134.47 ECC .19123 INC 1.7944 VI 30.079
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.098 GAP -.99 AZP 88.97 TAL 229.01 TAP 353.85 RCA 108.75 APO 160.18 V2 34.813
 RC 84.153 GL -9.14 GP 39.65 ZAL 155.67 ZAP 79.56 ETS 353.91 ZAE 141.10 ETE 91.50 ZAC 102.72 ETC 151.75 CLP -76.39

DISTANCE 271.466

PLANETOCENTRIC CONIC

C3 30.440 VHL 5.517 OLA -8.43 RAL 3.55 RAD 6568.2 VEL 12.321 PTH 2.22 VHP 4.253 DPA 42.97 RAP 4.66 ECC 1.5010
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 17 11 2053.01 -15.35 31.50 230.14 114.09 2 51 24 1453.0 -11.97 24.46
 90.00 12 7 50 5225.96 26.46 235.08 235.04 79.52 13 34 56 4626.0 24.74 226.83
 100.00 3 34 27 1803.78 -16.53 12.61 229.57 115.27 4 4 30 1203.8 -12.99 5.61
 100.00 13 33 16 4950.43 27.73 214.54 234.76 78.38 14 55 47 4350.4 25.85 206.24
 110.00 4 33 22 1619.28 -19.67 356.94 227.90 118.54 5 0 21 1019.3 -15.70 350.06
 110.00 14 50 50 4707.69 31.16 195.18 233.84 75.17 16 9 18 4107.7 28.81 186.77

DIFFERENTIAL CORRECTIONS

TDE -.3449 TRA -.6213 TC3 -.2545 BAU .3795
 RDE .1106 RRA .4309 RC3 .8972 FAU .11268
 FDE -1.7402 FRA -1.1284 FC3 -3.2048 BSP 3670
 BDE .3622 BRA .7607 BC3 .9326 FSP -1112

MID-COURSE EXECUTION ACCURACY

SGT 795.3 SGR 1098.0 SG3 358.1
 RRT -.7096 RRF -.9350 RTF .7321
 SGB 1355.8 R23 .1284 R13 -.9312
 SG1 1265.6 SG2 486.2 THA 122.59

ORBIT DETERMINATION ACCURACY

ST 408.2 SR 182.2 SS 677.8
 CRT -.9204 CRS .7733 CST -.9530
 LSA 798.3 MSA 146.1 SSA 24.7
 EL1 442.2 EL2 65.8 ALF 157.14

LAUNCH DATE FEB 26 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -.00 LOL 157.23 VL 28.361 GAL -9.27 AZL 92.08 HCA 128.00 SMA 134.39 ECC .19012 INC 2.0804 VI 30.079
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.085 GAP -.53 AZP 88.72 TAL 228.68 TAP 356.68 RCA 108.84 APO 159.94 V2 34.807
 RC 86.508 GL -10.65 GP 41.40 ZAL 154.85 ZAP 83.88 ETS 357.19 ZAE 139.03 ETE 97.36 ZAC 100.35 ETC 153.02 CLP -81.82

DISTANCE 277.801

PLANETOCENTRIC CONIC

C3 30.233 VHL 5.498 OLA -9.71 RAL 4.40 RAD 6568.2 VEL 12.313 PTH 2.22 VHP 4.272 DPA 43.51 RAP 1.36 ECC 1.4976
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 45 2009.93 -14.13 28.92 230.78 114.79 3 4 15 1409.9 -10.67 21.95
 90.00 12 1 7 5265.62 26.92 237.89 236.33 80.86 13 28 52 4665.6 25.38 229.56
 100.00 3 47 19 1762.92 -15.33 10.18 230.19 115.98 4 16 42 1162.9 -11.71 3.25
 100.00 13 27 14 4987.86 28.22 217.21 236.08 79.70 14 50 22 4387.9 26.51 208.83
 110.00 4 44 41 1583.25 -18.48 354.82 228.47 119.28 5 11 5 983.2 -14.44 348.04
 110.00 14 46 21 4740.30 31.70 197.57 235.23 76.48 16 5 21 4140.3 29.52 189.04

DIFFERENTIAL CORRECTIONS

TDE -.4132 TRA -.6742 TC3 -.3772 BAU .4114
 RDE .1659 RRA .4283 RC3 .9454 FAU .11094
 FDE -1.8144 FRA -1.0549 FC3 -3.1767 BSP 4076
 BDE .4452 BRA .7987 BC3 1.0178 FSP -1110

MID-COURSE EXECUTION ACCURACY

SGT 930.3 SGR 1147.0 SG3 356.5
 RRT -.7763 RRF -.9432 RTF .7967
 SGB 1476.9 R23 .1416 R13 -.9381
 SG1 1396.1 SG2 481.8 THA 127.40

ORBIT DETERMINATION ACCURACY

ST 480.9 SR 222.0 SS 709.7
 CRT -.9726 CRS .8795 CST -.9591
 LSA 874.0 MSA 140.7 SSA 23.7
 EL1 527.6 EL2 47.0 ALF 155.61

LAUNCH DATE FEB 26 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -.00 LOL 157.23 VL 28.346 GAL -9.17 AZL 92.39 HCA 131.16 SMA 134.28 ECC .18909 INC 2.3920 VI 30.079
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.069 GAP -.09 AZP 88.43 TAL 228.25 TAP 359.41 RCA 108.89 APO 159.67 V2 34.802
 RC 88.877 GL -12.30 GP 43.12 ZAL 153.85 ZAP 87.96 ETS .63 ZAE 136.75 ETE 102.72 ZAC 98.08 ETC 154.31 CLP -87.20

DISTANCE 284.106

PLANETOCENTRIC CONIC

C3 30.083 VHL 5.485 OLA -11.08 RAL 5.39 RAD 6568.2 VEL 12.307 PTH 2.22 VHP 4.324 DPA 44.03 RAP 358.16 ECC 1.4951
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 50 1963.60 -12.79 26.18 231.62 115.48 3 18 34 1363.6 -9.26 19.28
 90.00 11 53 55 5309.46 27.35 241.03 237.85 82.37 13 22 25 4709.5 26.01 232.61
 100.00 4 1 37 1719.11 -14.00 7.60 231.02 116.68 4 30 16 1119.1 -10.31 .75
 100.00 13 20 49 5029.18 28.69 220.19 237.63 81.21 14 44 39 4429.2 27.17 211.72
 110.00 4 57 16 1544.83 -17.19 352.59 229.23 120.01 5 23 1 944.8 -13.07 345.90
 110.00 14 41 40 4776.22 32.24 200.23 236.87 77.97 16 1 16 4176.2 30.25 191.58

DIFFERENTIAL CORRECTIONS

TDE -.4935 TRA -.7247 TC3 -.5040 BAU .4453
 RDE .2239 RRA .4116 RC3 .9858 FAU .10785
 FDE -1.8743 FRA -.9657 FC3 -3.1038 BSP 4534
 BDE .5419 BRA .8334 BC3 1.1072 FSP -1103

MID-COURSE EXECUTION ACCURACY

SGT 1080.0 SGR 1190.0 SG3 350.8
 RRT -.8219 RRF -.9501 RTF .8403
 SGB 1607.0 R23 .1525 R13 -.9436
 SG1 1534.6 SG2 477.0 THA 131.63

ORBIT DETERMINATION ACCURACY

ST 565.3 SR 270.2 SS 741.6
 CRT -.9918 CRS .9355 CST -.9647
 LSA 961.0 MSA 136.1 SSA 22.5
 EL1 625.8 EL2 31.1 ALF 154.57

LAUNCH DATE FEB 26 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -.00 LOL 157.23 VL 28.327 GAL -9.06 AZL 92.74 HCA 134.31 SMA 134.13 ECC .18815 INC 2.7352 VI 30.079
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.050 GAP .32 AZP 88.09 TAL 227.72 TAP 2.03 RCA 108.89 APO 159.37 V2 34.797
 RC 91.256 GL -14.10 GP 44.82 ZAL 152.65 ZAP 91.75 ETS 4.20 ZAE 134.31 ETE 107.56 ZAC 95.96 ETC 155.60 CLP -92.46

DISTANCE 290.379

PLANETOCENTRIC CONIC

C3 30.010 VHL 5.478 OLA -12.56 RAL 6.53 RAD 6568.2 VEL 12.304 PTH 2.22 VHP 4.410 DPA 44.58 RAP 355.08 ECC 1.4939
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 49 1913.11 -11.30 23.23 232.72 116.14 3 34 43 1313.1 -7.69 16.40
 90.00 11 46 1 5358.72 27.75 244.58 239.62 84.11 13 15 19 4758.7 26.64 236.09
 100.00 4 17 42 1671.52 -12.53 4.83 232.08 117.36 4 45 34 1071.5 -8.77 358.06
 100.00 13 13 49 5075.54 29.12 223.57 239.44 82.93 14 38 25 4475.5 27.84 215.00
 110.00 5 11 22 1503.43 -15.76 350.23 230.23 120.73 5 36 26 903.4 -11.57 343.63
 110.00 14 36 38 4816.40 32.77 203.24 238.79 79.68 15 56 54 4216.4 31.00 194.47

DIFFERENTIAL CORRECTIONS

TDE -.5871 TRA -.7709 TC3 -.6317 BAU .4798
 RDE .2833 RRA .3869 RC3 1.0155 FAU .10336
 FDE -1.9150 FRA -.8592 FC3 -2.9818 BSP 5008
 BDE .6519 BRA .8625 BC3 1.1960 FSP -1080

MID-COURSE EXECUTION ACCURACY

SGT 1240.3 SGR 1223.8 SG3 340.5
 RRT -.8528 RRF -.9558 RTF .8698
 SGB 1742.4 R23 .1626 R13 -.9477
 SG1 1677.1 SG2 472.6 THA 135.45

ORBIT DETERMINATION ACCURACY

ST 662.5 SR 323.1 SS 771.4
 CRT -.9973 CRS .9650 CST -.9697
 LSA 1058.5 MSA 132.3 SSA 21.0
 EL1 736.8 EL2 21.3 ALF 154.04

LAUNCH DATE FEB 26 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 296.622

RL 148.13 LAL -.00 LOL 157.23 VL 28.303 GAL -8.94 AZL 93.12 MCA 137.46 SMA 133.95 ECC .18727 INC 3.1172 V1 30.079
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.029 GAP .72 AZP 87.70 TAL 227.10 TAP 4.57 RCA 108.86 APO 159.03 V2 34.793
 RC 93.644 GL -16.11 GP 46.52 ZAL 151.21 ZAP 95.20 ETS 7.91 ZAE 131.73 ETE 111.88 ZAC 93.98 ETC 156.84 CLP -97.58

PLANETOCENTRIC CONIC

C3 30.039 VHL 5.481 DLA -14.18 RAL 7.83 RAD 6568.2 VEL 12.305 PTH 2.22 VHP 4.531 OPA 45.20 RAP 352.12 ECC 1.4944
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 12 1857.26 -9.60 20.00 234.11 116.77 3 53 9 1257.3 -5.94 13.24
 90.00 11 37 2 5415.07 28.07 248.67 241.69 86.14 13 7 17 4815.1 27.24 240.10
 100.00 4 35 59 1619.15 -10.87 1.82 233.44 118.02 5 2 59 1019.1 -7.04 355.13
 100.00 13 5 55 5128.42 29.50 227.46 241.57 84.95 14 31 24 4528.4 28.49 218.80
 110.00 5 27 20 1458.31 -14.17 347.69 231.51 121.44 5 51 39 858.3 -9.91 341.19
 110.00 14 31 4 4862.01 33.27 206.71 241.05 81.67 15 52 6 4262.0 31.77 197.80

DIFFERENTIAL CORRECTIONS

TDE -.6956 TRA -.8102 TC3 -.7565 BAU .5135
 RDE .3429 RRA .3528 RC3 1.0310 FAU .09744
 FDE-1.9332 FRA -.7355 FC3-2.8082 BSP 5462
 BOE .7755 BRA .8837 BC3 1.2788 FSP -1033

MID-COURSE EXECUTION ACCURACY

SGT 1407.0 SGR 1245.1 SG3 325.4
 RRT -.8734 RRF -.9605 RTF .8897
 SGB 1878.9 R23 .1731 R13 -.9505
 SG1 1819.4 SG2 468.9 THA 138.99

ORBIT DETERMINATION ACCURACY

ST 773.3 SR 377.7 SS 797.5
 CRT -.9976 CRS .9809 CST -.9739
 LSA 1166.0 MSA 129.8 SSA 19.3
 EL1 860.3 EL2 23.4 ALF 154.00

LAUNCH DATE FEB 26 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 302.837

RL 148.13 LAL -.00 LOL 157.23 VL 28.275 GAL -8.81 AZL 93.55 MCA 140.61 SMA 133.73 ECC .18645 INC 3.5478 V1 30.079
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.005 GAP 1.10 AZP 87.26 TAL 226.40 TAP 7.02 RCA 108.80 APO 158.67 V2 34.789
 RC 96.038 GL -18.34 GP 48.28 ZAL 149.51 ZAP 98.29 ETS 11.74 ZAE 129.05 ETE 115.72 ZAC 92.15 ETC 158.03 CLP -102.51

PLANETOCENTRIC CONIC

C3 30.213 VHL 5.497 DLA -15.98 RAL 9.33 RAD 6568.2 VEL 12.312 PTH 2.22 VHP 4.690 OPA 45.92 RAP 349.27 ECC 1.4972
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 37 1794.43 -7.66 16.41 235.88 117.34 4 14 32 1194.4 -3.93 9.71
 90.00 11 26 30 5480.79 28.28 253.46 244.12 88.53 12 57 51 4880.8 27.78 244.83
 100.00 4 57 5 1560.62 -8.98 358.51 235.17 118.63 5 23 6 960.6 -5.09 351.88
 100.00 12 56 43 5189.83 29.78 232.00 244.06 87.32 14 23 13 4589.8 29.09 223.26
 110.00 5 45 37 1408.58 -12.39 344.95 233.14 122.12 6 9 6 808.6 -8.06 338.53
 110.00 14 24 41 4914.64 33.72 210.75 243.71 84.03 15 46 35 4314.6 32.53 201.72

DIFFERENTIAL CORRECTIONS

TDE -.8212 TRA -.8405 TC3 -.8738 BAU .5465
 RDE .4052 RRA .3108 RC3 1.0329 FAU .09054
 FDE-1.9366 FRA -.6046 FC3-2.5943 BSP 5920
 BOE .9158 BRA .8961 BC3 1.3529 FSP -975

MID-COURSE EXECUTION ACCURACY

SGT 1576.7 SGR 1257.5 SG3 307.2
 RRT -.8874 RRF -.9645 RTF .9036
 SGB 2016.8 R23 .1835 R13 -.9526
 SG1 1962.2 SG2 465.8 THA 142.21

ORBIT DETERMINATION ACCURACY

ST 899.1 SR 435.7 SS 822.6
 CRT -.9962 CRS .9899 CST -.9776
 LSA 1287.6 MSA 128.8 SSA 17.4
 EL1 998.5 EL2 34.2 ALF 154.20

LAUNCH DATE FEB 26 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 309.024

RL 148.13 LAL -.00 LOL 157.23 VL 28.244 GAL -8.67 AZL 94.04 MCA 143.76 SMA 133.50 ECC .18569 INC 4.0403 V1 30.079
 RP 108.94 LAP -2.39 LOP 301.05 VP 37.979 GAP 1.47 AZP 86.74 TAL 225.62 TAP 9.38 RCA 108.71 APO 158.29 V2 34.787
 RC 98.436 GL -20.84 GP 50.14 ZAL 147.53 ZAP 100.96 ETS 15.71 ZAE 126.27 ETE 119.12 ZAC 90.46 ETC 159.16 CLP -107.26

PLANETOCENTRIC CONIC

C3 30.589 VHL 5.531 DLA -17.98 RAL 11.04 RAD 6568.2 VEL 12.327 PTH 2.22 VHP 4.891 OPA 46.80 RAP 346.46 ECC 1.5034
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 8 1722.24 -5.38 12.33 238.15 117.84 4 39 50 1122.2 -1.61 5.67
 90.00 11 13 39 5559.19 28.28 259.20 246.96 91.41 12 46 18 4959.2 28.18 250.53
 100.00 5 21 51 1494.05 -6.79 354.78 237.37 119.18 5 46 45 894.1 -2.85 348.21
 100.00 12 45 37 5262.61 29.89 237.41 246.99 90.16 14 13 19 4662.6 29.59 228.61
 110.00 6 6 51 1353.08 -10.36 341.92 235.21 122.76 6 29 24 753.1 -5.97 335.58
 110.00 14 17 6 4976.35 34.05 215.54 246.86 86.84 15 40 3 4376.4 33.24 206.39

DIFFERENTIAL CORRECTIONS

TDE -.9681 TRA -.8596 TC3 -.9794 BAU .5788
 RDE .4721 RRA .2616 RC3 1.0216 FAU .08305
 FDE-1.9293 FRA -.4732 FC3-2.3504 BSP 6409
 BOE 1.0771 BRA .8985 BC3 1.4153 FSP -916

MID-COURSE EXECUTION ACCURACY

SGT 1748.2 SGR 1263.9 SG3 286.8
 RRT -.8968 RRF -.9682 RTF .9139
 SGB 2157.2 R23 .1933 R13 -.9543
 SG1 2106.7 SG2 464.0 THA 145.11

ORBIT DETERMINATION ACCURACY

ST 1042.0 SR 497.6 SS 847.8
 CRT -.9943 CRS .9950 CST -.9809
 LSA 1426.7 MSA 129.1 SSA 15.3
 EL1 1153.8 EL2 47.8 ALF 154.55

LAUNCH DATE FEB 26 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 315.183

RL 148.13 LAL -.00 LOL 157.23 VL 28.210 GAL -8.53 AZL 94.61 MCA 146.91 SMA 133.24 ECC .18498 INC 4.6125 V1 30.079
 RP 108.94 LAP -2.52 LOP 304.22 VP 37.952 GAP 1.82 AZP 86.13 TAL 224.77 TAP 11.68 RCA 108.59 APO 157.88 V2 34.785
 RC 100.837 GL -23.66 GP 52.14 ZAL 145.20 ZAP 103.19 ETS 19.83 ZAE 123.38 ETE 122.15 ZAC 88.87 ETC 160.24 CLP -111.83

PLANETOCENTRIC CONIC

C3 31.257 VHL 5.591 DLA -20.23 RAL 13.01 RAD 6568.2 VEL 12.354 PTH 2.23 VHP 5.144 OPA 47.85 RAP 343.62 ECC 1.5144
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 43 22 1636.76 -2.64 7.53 241.08 118.20 5 10 39 1036.8 1.15 .91
 90.00 10 57 10 5655.52 27.92 266.22 250.26 94.91 12 31 26 5055.5 28.31 257.58
 100.00 5 51 38 1416.47 -4.20 350.48 240.22 119.62 6 15 14 816.5 -.22 343.95
 100.00 12 31 36 5351.05 29.69 243.97 250.41 93.61 14 0 47 4751.0 29.88 235.17
 110.00 6 31 55 1290.22 -8.03 338.55 237.86 123.34 6 53 25 690.2 -3.59 332.28
 110.00 14 7 48 5050.05 34.18 221.29 250.59 90.24 15 31 58 4450.1 33.84 212.06

DIFFERENTIAL CORRECTIONS

TDE-1.1421 TRA -.8648 TC3-1.0677 BAU .6094
 RDE .5436 RRA .2037 RC3 .9935 FAU .07499
 FDE-1.9104 FRA -.3423 FC3-2.0771 BSP 6905
 BOE 1.2649 BRA .8884 BC3 1.4584 FSP -849

MID-COURSE EXECUTION ACCURACY

SGT 1920.2 SGR 1262.5 SG3 264.4
 RRT -.9027 RRF -.9715 RTF .9218
 SGB 2298.1 R23 .2027 R13 -.9558
 SG1 2250.9 SG2 463.4 THA 147.78

ORBIT DETERMINATION ACCURACY

ST 1204.8 SR 562.0 SS 872.1
 CRT -.9926 CRS .9978 CST -.9838
 LSA 1584.5 MSA 130.7 SSA 13.1
 EL1 1328.0 EL2 62.0 ALF 155.10

LAUNCH DATE FEB 26 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 321.315

RL 148.13 LAL -.00 LOL 157.23 VL 28.172 GAL -8.38 AZL 95.29 MCA 150.05 SMA 132.96 ECC .18432 INC 5.2900 V1 30.079
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.923 GAP 2.15 AZP 85.41 TAL 223.85 TAP 13.89 RCA 108.45 APO 157.46 V2 34.784
 RC 103.240 GL -26.86 GP 54.37 ZAL 142.48 ZAP 104.94 ETS 24.12 ZAE 120.37 ETE 124.89 ZAC 87.35 ETC 161.32 CLP -116.26

PLANETOCENTRIC CONIC

C3 32.353 VML 5.688 OLA -22.76 RAL 15.31 RAD 6568.3 VEL 12.399 PTH 2.24 VHP 5.459 DPA 49.12 RAP 340.64 ECC 1.5325
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 22 1530.26 .79 1.59 244.97 118.31 5 49 52 930.3 4.57 354.95
 90.00 10 34 31 5779.37 26.88 275.13 254.00 99.25 12 10 50 5179.4 27.89 266.61
 100.00 6 28 42 1322.57 -1.02 345.32 243.96 119.88 6 50 45 722.6 2.96 338.80
 100.00 12 12 51 5462.29 28.94 252.15 254.35 -97.85 13 43 54 4862.3 29.72 243.43
 110.00 7 2 10 1217.66 -5.30 334.71 241.30 123.82 7 22 28 617.7 -.82 328.49
 110.00 13 55 53 5139.96 33.94 228.30 254.98 94.38 15 21 33 4540.0 34.17 219.06

DIFFERENTIAL CORRECTIONS

TDE -1.3503 TRA -.8507 TC3 -1.1298 BAU .6365
 RDE .6187 RRA .1337 RC3 .9430 FAU .06636
 FDE -1.8774 FRA -.2107 FC3 -1.7757 BSP 7353
 BDE 1.4853 BRA .8611 BC3 1.4717 FSP -769

MID-COURSE EXECUTION ACCURACY

SGT 2089.4 SGR 1249.2 SG3 239.9
 RRT -.9050 RRF -.9742 RTF .9278
 SGB 2434.4 R23 .2124 R13 -.9569
 SG1 2389.6 SG2 464.6 THA 150.35

ORBIT DETERMINATION ACCURACY

ST 1389.0 SR 625.6 SS 893.1
 CRT -.9910 CRS .9992 CST -.9863
 LSA 1760.7 MSA 133.7 SSA 11.0
 EL1 1521.4 EL2 76.3 ALF 155.88

LAUNCH DATE FEB 26 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 327.420

RL 148.13 LAL -.00 LOL 157.23 VL 28.133 GAL -8.22 AZL 96.11 MCA 153.18 SMA 132.66 ECC .18371 INC 6.1099 V1 30.079
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.893 GAP 2.47 AZP 84.54 TAL 222.86 TAP 16.04 RCA 108.29 APO 157.03 V2 34.783
 RC 105.643 GL -30.50 GP 56.86 ZAL 139.31 ZAP 106.17 ETS 28.66 ZAE 117.18 ETE 127.45 ZAC 85.84 ETC 162.45 CLP -120.62

PLANETOCENTRIC CONIC

C3 34.102 VML 5.840 OLA -25.61 RAL 18.01 RAD 6568.3 VEL 12.469 PTH 2.26 VHP 5.858 DPA 50.60 RAP 337.35 ECC 1.5612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 21 47 1381.41 5.57 353.26 250.41 117.81 6 44 48 781.4 9.25 346.52
 90.00 9 58 39 666.71 24.37 309.44 257.97 104.88 10 9 46 66.7 26.18 301.24
 100.00 7 17 54 1200.23 3.12 338.61 249.06 119.74 7 37 54 600.2 7.06 332.03
 100.00 11 45 14 5611.16 27.08 262.82 258.72 103.17 13 18 45 5011.2 28.62 254.36
 110.00 7 39 51 1131.33 -2.01 330.19 245.86 124.13 7 58 43 531.3 2.48 323.99
 110.00 13 39 45 5252.83 33.01 236.97 260.09 99.43 15 7 18 4652.8 33.96 227.86

DIFFERENTIAL CORRECTIONS

TDE -1.6072 TRA -.8138 TC3 -1.1592 BAU .6610
 RDE .7004 RRA .0530 RC3 .8708 FAU .05764
 FDE -1.8379 FRA -.0883 FC3 -1.4632 BSP 7833
 BDE 1.7531 BRA .8155 BC3 1.4499 FSP -691

MID-COURSE EXECUTION ACCURACY

SGT 2259.1 SGR 1228.8 SG3 214.8
 RRT -.9048 RRF -.9763 RTF .9334
 SGB 2571.7 R23 .2199 R13 -.9585
 SG1 2528.8 SG2 467.5 THA 152.79

ORBIT DETERMINATION ACCURACY

ST 1599.6 SR 688.0 SS 913.2
 CRT -.9898 CRS .9998 CST -.9886
 LSA 1961.4 MSA 137.3 SSA 9.0
 EL1 1739.0 EL2 90.1 ALF 156.87

LAUNCH DATE FEB 26 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 333.498

RL 148.13 LAL -.00 LOL 157.23 VL 28.091 GAL -8.05 AZL 97.13 MCA 156.32 SMA 132.35 ECC .18314 INC 7.1290 V1 30.079
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.863 GAP 2.78 AZP 83.47 TAL 221.81 TAP 18.12 RCA 108.11 APO 156.59 V2 34.783
 RC 108.045 GL -34.64 GP 59.71 ZAL 135.61 ZAP 106.83 ETS 33.53 ZAE 113.77 ETE 129.98 ZAC 84.29 ETC 163.78 CLP -125.04

PLANETOCENTRIC CONIC

C3 36.881 VML 6.073 OLA -28.81 RAL 21.23 RAD 6568.4 VEL 12.580 PTH 2.28 VHP 6.373 DPA 52.29 RAP 333.52 ECC 1.6070
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.46 7 36 51 1193.44 15.95 344.73 259.91 114.31 7 56 44 593.4 19.10 337.43
 95.54 9 9 17 894.26 15.96 322.81 259.91 114.30 9 24 11 294.3 19.11 315.52
 100.00 8 36 57 998.36 9.82 327.37 256.80 118.37 8 53 36 398.4 13.54 320.55
 100.00 10 51 52 5852.61 22.29 279.13 262.67 110.45 12 29 25 5252.6 24.87 271.29
 110.00 8 29 21 1022.26 2.16 324.50 252.13 124.12 8 46 24 422.3 6.62 318.26
 110.00 13 15 57 5401.48 30.81 247.99 265.76 105.60 14 45 59 4801.5 32.64 239.25

DIFFERENTIAL CORRECTIONS

TDE -1.9314 TRA -.7437 TC3 -1.1438 BAU .6797
 RDE .7828 RRA -.0444 RC3 .7692 FAU .04871
 FDE -1.7872 FRA .0281 FC3 -1.1433 BSP 8268
 BDE 2.0840 BRA .7450 BC3 1.3784 FSP -605

MID-COURSE EXECUTION ACCURACY

SGT 2427.3 SGR 1191.9 SG3 188.7
 RRT -.9006 RRF -.9771 RTF .9387
 SGB 2704.1 R23 .2257 R13 -.9602
 SG1 2662.5 SG2 472.3 THA 155.32

ORBIT DETERMINATION ACCURACY

ST 1838.4 SR 739.2 SS 928.8
 CRT -.9886 CRS .9998 CST -.9907
 LSA 2183.7 MSA 141.7 SSA 7.2
 EL1 1978.7 EL2 103.5 ALF 158.26

LAUNCH DATE FEB 26 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 339.546

RL 148.13 LAL -.00 LOL 157.23 VL 28.047 GAL -7.87 AZL 98.44 MCA 159.44 SMA 132.02 ECC .18261 INC 8.4381 V1 30.079
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.831 GAP 3.07 AZP 82.09 TAL 220.69 TAP 20.13 RCA 107.92 APO 156.13 V2 34.784
 RC 110.446 GL -39.33 GP 62.98 ZAL 131.31 ZAP 106.89 ETS 38.93 ZAE 110.05 ETE 132.76 ZAC 82.58 ETC 165.53 CLP -129.75

PLANETOCENTRIC CONIC

C3 41.382 VML 6.433 OLA -32.36 RAL 25.13 RAD 6568.6 VEL 12.757 PTH 2.32 VHP 7.058 DPA 54.14 RAP 328.85 ECC 1.6810
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.65 6 31 55 1478.44 16.85 6.47 266.56 118.04 6 56 34 878.4 20.46 359.35
 106.35 10 45 19 667.43 16.86 306.35 266.57 118.03 10 56 27 67.4 20.48 299.23
 73.65 6 31 55 1478.44 16.85 6.47 266.56 118.04 6 56 34 878.4 20.46 359.35
 106.35 10 45 19 667.43 16.86 306.35 266.57 118.03 10 56 27 67.4 20.48 299.23
 110.00 9 43 59 857.14 8.41 315.80 261.45 123.25 9 58 16 257.1 12.73 309.37
 110.00 12 32 26 5624.77 25.70 263.34 271.13 113.36 14 6 10 5024.8 28.63 255.39

DIFFERENTIAL CORRECTIONS

TDE -2.3576 TRA -.6281 TC3 -1.0749 BAU .6916
 RDE .8585 RRA -.1597 RC3 .6381 FAU .03994
 FDE -1.7317 FRA .1316 FC3 -.8355 BSP 8739
 BDE 2.5091 BRA .6480 BC3 1.2500 FSP -522

MID-COURSE EXECUTION ACCURACY

SGT 2600.1 SGR 1134.5 SG3 162.9
 RRT -.8914 RRF -.9750 RTF .9453
 SGB 2836.8 R23 .2265 R13 -.9631
 SG1 2796.2 SG2 478.0 THA 158.07

ORBIT DETERMINATION ACCURACY

ST 2109.6 SR 766.7 SS 941.1
 CRT -.9871 CRS .9992 CST -.9927
 LSA 2429.6 MSA 145.8 SSA 5.7
 EL1 2241.7 EL2 115.5 ALF 160.21

LAUNCH DATE FEB 26 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 345.562

RL 148.13 LAL -0.00 LOL 157.23 VL 28.001 GAL -7.68 AZL 100.19 HCA 162.55 SMA 131.69 ECC .18210 INC10.1917 V1 30.079
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.799 GAP 3.35 AZP 80.27 TAL 219.52 TAP 22.07 RCA 107.71 APO 155.67 V2 34.786
 RC 112.844 GL -44.57 GP 66.74 ZAL 126.36 ZAP 106.29 ETS 45.25 ZAE 105.91 ETE 136.29 ZAC 80.61 ETC 168.17 CLP-135.27

PLANETOCENTRIC CONIC

C3 48.955 VHL 6.997 CLA -36.18 RAL 29.93 RAD 6568.8 VEL 13.051 PTH 2.38 VHP 8.005 DPA 56.02 RAP 322.88 ECC 1.8057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.48 6 7 59 1651.91 17.12 20.18 275.00 122.37 6 35 31 1051.9 21.27 13.35
 113.52 11 47 31 5866.46 17.14 277.47 275.01 122.36 13 25 17 5266.5 21.28 270.64
 66.48 6 7 59 1651.91 17.12 20.18 275.00 122.37 6 35 31 1051.9 21.27 13.35
 113.52 11 47 31 5866.46 17.14 277.47 275.01 122.36 13 25 17 5266.5 21.28 270.64
 66.48 6 7 59 1651.91 17.12 20.18 275.00 122.37 6 35 31 1051.9 21.27 13.35
 113.52 11 47 31 5866.46 17.14 277.47 275.01 122.36 13 25 17 5266.5 21.28 270.64

DIFFERENTIAL CORRECTIONS

TOE-2.9366 TRA -4.358 TC3 -.9400 BAU .6891
 RDE .8903 RRA -.2995 RC3 .4744 FAU .03128
 FDE-1.6690 FRA .2268 FC3 -.5531 BSP 9143
 BDE 3.0686 BRA .5288 BC3 1.0529 FSP -437

MID-COURSE EXECUTION ACCURACY

SGT 2776.4 SGR 1031.8 SG3 137.2
 RRT -.8699 RRF -.9647 RTF .9536
 SGB 2961.9 R23 .2211 R13 -.9673
 SG1 2922.2 SG2 483.5 THA 161.56

ORBIT DETERMINATION ACCURACY

ST 2408.7 SR 735.0 SS 946.6
 CRT -.9839 CRS .9972 CST -.9944
 LSA 2686.2 MSA 149.1 SSA 4.3
 EL1 2515.2 EL2 125.9 ALF 163.25

LAUNCH DATE FEB 26 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 351.536

RL 148.13 LAL -0.00 LOL 157.23 VL 27.954 GAL -7.48 AZL 102.68 HCA 165.64 SMA 131.35 ECC .18161 INC12.6751 V1 30.079
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.766 GAP 3.61 AZP 77.71 TAL 218.28 TAP 23.92 RCA 107.49 APO 155.20 V2 34.789
 RC 115.239 GL -50.26 GP 71.05 ZAL 120.75 ZAP 105.00 ETS 53.46 ZAE 101.16 ETE 141.63 ZAC 78.17 ETC 172.78 CLP-142.85

PLANETOCENTRIC CONIC

C3 62.551 VHL 7.909 CLA -40.05 RAL 35.91 RAD 6569.2 VEL 13.561 PTH 2.48 VHP 9.390 DPA 57.65 RAP 315.03 ECC 2.0294
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.40 6 1 32 1800.08 16.27 31.76 285.58 127.12 6 31 33 1200.1 20.98 25.35
 119.60 12 41 39 5838.95 16.28 274.59 285.59 127.11 14 18 58 5238.9 20.99 268.18
 60.40 6 1 32 1800.08 16.27 31.76 285.58 127.12 6 31 33 1200.1 20.98 25.35
 119.60 12 41 39 5838.95 16.28 274.59 285.59 127.11 14 18 58 5238.9 20.99 268.18
 60.40 6 1 32 1800.08 16.27 31.76 285.58 127.12 6 31 33 1200.1 20.98 25.35
 119.60 12 41 39 5838.95 16.28 274.59 285.59 127.11 14 18 58 5238.9 20.99 268.18

DIFFERENTIAL CORRECTIONS

TOE-3.7631 TRA -.1138 TC3 -.7393 BAU .6638
 RDE .7703 RRA -.4545 RC3 .2887 FAU .02306
 FDE-1.6104 FRA .3119 FC3 -.3192 BSP 9588
 BDE 3.8411 BRA .4685 BC3 .7937 FSP -358

MID-COURSE EXECUTION ACCURACY

SGT 2968.4 SGR 839.7 SG3 112.8
 RRT -.8061 RRF -.9204 RTF .9652
 SGB 3084.8 R23 .2045 R13 -.9735
 SG1 3046.6 SG2 484.1 THA 166.82

ORBIT DETERMINATION ACCURACY

ST 2726.6 SR 573.0 SS 949.3
 CRT -.9715 CRS .9885 CST -.9962
 LSA 2939.6 MSA 150.2 SSA 3.3
 EL1 2782.9 EL2 133.1 ALF 168.43

LAUNCH DATE FEB 26 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 357.452

RL 148.13 LAL -0.00 LOL 157.23 VL 27.906 GAL -7.26 AZL 106.47 HCA 168.69 SMA 131.00 ECC .18109 INC16.4734 V1 30.079
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.733 GAP 3.86 AZP 73.83 TAL 216.97 TAP 25.66 RCA 107.27 APO 154.72 V2 34.792
 RC 117.630 GL -56.05 GP 75.78 ZAL 114.55 ZAP 102.99 ETS 66.28 ZAE 95.51 ETE 151.62 ZAC 74.94 ETC 182.22 CLP-156.21

PLANETOCENTRIC CONIC

C3 89.543 VHL 9.463 CLA -43.49 RAL 43.35 RAD 6569.8 VEL 14.522 PTH 2.64 VHP 11.571 DPA 58.49 RAP 304.68 ECC 2.4736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.50 6 10 16 1941.10 13.70 41.84 298.44 131.69 6 42 37 1341.1 18.94 35.95
 124.50 13 32 19 5864.70 13.72 274.65 298.46 131.69 15 10 4 5264.7 18.95 268.76
 55.50 6 10 16 1941.10 13.70 41.84 298.44 131.69 6 42 37 1341.1 18.94 35.95
 124.50 13 32 19 5864.70 13.72 274.65 298.46 131.69 15 10 4 5264.7 18.95 268.76
 55.50 6 10 16 1941.10 13.70 41.84 298.44 131.69 6 42 37 1341.1 18.94 35.95
 124.50 13 32 19 5864.70 13.72 274.65 298.46 131.69 15 10 4 5264.7 18.95 268.76

DIFFERENTIAL CORRECTIONS

TDE-4.9475 TRA .4774 TC3 -.4763 BAU .5835
 RDE .0861 RRA -.5529 RC3 .1036 FAU .01510
 FDE-1.5701 FRA .4018 FC3 -.1460 BSP 9896
 BDE 4.9482 BRA .7305 BC3 .4874 FSP -284

MID-COURSE EXECUTION ACCURACY

SGT 3153.6 SGR 504.1 SG3 90.3
 RRT -.3251 RRF -.4906 RTF .9800
 SGB 3193.6 R23 .1740 R13 -.9815
 SG1 3157.9 SG2 476.0 THA 176.96

ORBIT DETERMINATION ACCURACY

ST 2998.2 SR 148.0 SS 955.8
 CRT -.3895 CRS .4490 CST -.9979
 LSA 3146.8 MSA 148.5 SSA 2.4
 EL1 2998.7 EL2 136.3 ALF 178.90

LAUNCH DATE FEB 26 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 363.265

RL 148.13 LAL -0.00 LOL 157.23 VL 27.856 GAL -7.01 AZL 112.97 HCA 171.65 SMA 130.64 ECC .18045 INC22.9739 V1 30.079
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.700 GAP 4.07 AZP 67.24 TAL 215.56 TAP 27.21 RCA 107.07 APO 154.21 V2 34.796
 RC 120.015 GL -60.98 GP 79.62 ZAL 107.97 ZAP 100.29 ETS 91.81 ZAE 88.29 ETE 174.49 ZAC 70.23 ETC 204.83 CLP 172.28

PLANETOCENTRIC CONIC

C3 152.307 VHL 12.341 CLA -45.43 RAL 52.27 RAD 6570.7 VEL 16.542 PTH 2.88 VHP 15.392 DPA 57.38 RAP 291.55 ECC 3.5066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.86 6 35 41 2074.68 9.12 49.63 313.15 134.70 7 10 15 1474.7 14.70 44.18
 127.14 14 18 4 656.81 9.14 299.65 313.17 134.70 14 29 0 56.8 14.71 294.20
 52.86 6 35 41 2074.68 9.12 49.63 313.15 134.70 7 10 15 1474.7 14.70 44.18
 127.14 14 18 4 656.81 9.14 299.65 313.17 134.70 14 29 0 56.8 14.71 294.20
 52.86 6 35 41 2074.68 9.12 49.63 313.15 134.70 7 10 15 1474.7 14.70 44.18
 127.14 14 18 4 656.81 9.14 299.65 313.17 134.70 14 29 0 56.8 14.71 294.20

DIFFERENTIAL CORRECTIONS

TDE-6.0243 TRA 1.5568 TC3 -.1831 BAU .3733
 RDE-2.8008 RRA -.0896 RC3 -.0089 FAU .00685
 FDE-1.5990 FRA .5288 FC3 -.0389 BSP 10196
 BDE 6.6435 BRA 1.5593 BC3 .1833 FSP -224

MID-COURSE EXECUTION ACCURACY

SGT 3014.5 SGR 1301.8 SG3 71.4
 RRT .9137 RRF .8801 RTF .9957
 SGB 3283.6 R23 -.1337 R13 .9893
 SG1 3246.6 SG2 491.3 THA 22.07

ORBIT DETERMINATION ACCURACY

ST 2813.9 SR 1300.4 SS 997.1
 CRT .9923 CRS -.9881 CST -.9995
 LSA 3252.6 MSA 154.0 SSA 1.9
 EL1 3096.4 EL2 145.9 ALF 24.70

LAUNCH DATE FEB 26 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 368.838

RL 148.13 LAL -.00 LOL 157.23 VL 27.806 GAL -6.71 AZL 126.14 MCA 174.40 SMA 130.28 ECC .17941 INC36.1390 V1 30.079
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.667 GAP 4.21 AZP 53.99 TAL 213.95 TAP 28.36 RCA 106.91 APO 153.65 V2 34.800
 RC 122.394 GL -62.19 GP 76.22 ZAL 101.46 ZAP 97.07 ETS 137.13 ZAE 77.69 ETE 217.31 ZAC 62.16 ETC 248.25 CLP 121.11

PLANETOCENTRIC CONIC

C3 339.055 VHL 18.413 DLA -43.41 RAL 61.50 RAD 6571.9 VEL 21.456 PTH 3.21 VHP 23.176 DPA 51.79 RAP 276.66 ECC 6.5800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.61 7 23 8 2161.71 3.45 52.04 327.83 133.30 7 59 10 1561.7 8.91 46.57
 124.39 14 44 16 799.75 3.47 307.17 327.84 133.30 14 57 36 199.8 8.93 301.70
 55.61 7 23 8 2161.71 3.45 52.04 327.83 133.30 7 59 10 1561.7 8.91 46.57
 124.39 14 44 16 799.75 3.47 307.17 327.84 133.30 14 57 36 199.8 8.93 301.70
 55.61 7 23 8 2161.71 3.45 52.04 327.83 133.30 7 59 10 1561.7 8.91 46.57
 124.39 14 44 16 799.75 3.47 307.17 327.84 133.30 14 57 36 199.8 8.93 301.70

DIFFERENTIAL CORRECTIONS

TOE-2.3461 TRA 2.2937 TC3 -.0084 BAU .3947
 RDE-9.1117 RRA 2.6448 RC3 .0867 FAU-.00587
 FDE-1.8138 FRA .8149 FC3 .0150 BSP 10150
 BDE 9.4089 BRA 3.5009 BC3 .0871 FSP -180

MID-COURSE EXECUTION ACCURACY

SGT 1224.4 SGR 3069.8 SG3 57.5
 RRT .8441 RRF .9849 RTF .9238
 SGB 3304.9 R23 -.1062 R13 .9942
 SG1 3246.1 SG2 620.7 THA 70.66

ORBIT DETERMINATION ACCURACY

ST 787.3 SR 2855.5 SS 1149.4
 CRT .9652 CRS -.9979 CST -.9800
 LSA 3170.7 MSA 204.9 SSA .7
 EL1 2955.4 EL2 198.8 ALF 75.03

LAUNCH DATE FEB 26 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 373.611

RL 148.13 LAL -.00 LOL 157.23 VL 27.755 GAL -6.25 AZL 157.91 MCA 176.40 SMA 129.92 ECC .17682 INC67.9067 V1 30.079
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.634 GAP 4.13 AZP 22.13 TAL 211.74 TAP 28.14 RCA 106.94 APO 152.89 V2 34.805
 RC 124.766 GL -51.97 GP 58.71 ZAL 96.06 ZAP 93.94 ETS 166.96 ZAE 58.41 ETE 243.78 ZAC 45.36 ETC 279.79 CLP 97.60

PLANETOCENTRIC CONIC

C31053.319 VHL 32.455 DLA -31.08 RAL 67.17 RAD 6573.0 VEL 34.272 PTH 3.51 VHP 40.867 DPA 35.53 RAP 263.05 ECC18.3350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.61 9 39 56 1905.02 -.31 28.65 337.65 121.08 10 11 41 1305.0 3.82 22.20
 103.39 13 12 40 1221.40 -.29 338.19 337.66 121.08 13 33 1 621.4 3.84 331.74
 76.61 9 39 56 1905.02 -.31 28.65 337.65 121.08 10 11 41 1305.0 3.82 22.20
 103.39 13 12 40 1221.40 -.29 338.19 337.66 121.08 13 33 1 621.4 3.84 331.74
 110.00 12 6 28 1428.48 -13.11 346.04 329.79 121.86 12 30 17 828.5 -8.80 339.59
 110.00 15 45 17 745.93 12.50 309.79 345.54 122.08 15 57 43 145.9 16.65 303.14

DIFFERENTIAL CORRECTIONS

TOE 3.8203 TRA 1.0513 TC3 -.0560 BAU 2.7771
 RD-12.0973 RRA 7.6188 RC3 .1891 FAU-.04368
 FDE-2.3314 FRA 1.6403 FC3 .0359 BSP 9261
 BDE12.6862 BRA 7.6910 BC3 .1972 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 796.1 SGR 2921.3 SG3 50.2
 RRT -.6647 RRF .9986 RTF -.6243
 SGB 3027.9 R23 -.0899 R13 .9959
 SG1 2970.8 SG2 584.9 THA 100.69

ORBIT DETERMINATION ACCURACY

ST 677.6 SR 2187.3 SS 1497.0
 CRT -.9514 CRS -.9997 CST .9435
 LSA 2727.7 MSA 209.9 SSA .5
 EL1 2281.1 EL2 200.2 ALF 106.55

LAUNCH DATE FEB 26 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 383.986

RL 148.13 LAL -.00 LOL 157.23 VL 27.703 GAL -6.92 AZL 28.29 MCA 183.82 SMA 129.55 ECC .18654 INC61.7078 V1 30.079
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.602 GAP 5.60 AZP 151.65 TAL 213.33 TAP 37.15 RCA 105.39 APO 153.72 V2 34.811
 RC 127.128 GL 54.23 GP -62.31 ZAL 97.21 ZAP 95.86 ETS 183.96 ZAE 66.47 ETE 107.72 ZAC 976.59 ETC 79.04 CLP 102.69

PLANETOCENTRIC CONIC

C3 890.849 VHL 29.847 DLA 69.14 RAL 18.95 RAD 6572.9 VEL 31.814 PTH 3.48 VHP 37.042 DPA -82.46 RAP 206.20 ECC15.6611
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.86 15 0 17 5073.23 .03 246.43 288.98 20.86 16 24 50 4473.2 -7.44 243.98
 156.14 1 27 38 3325.53 .04 97.43 288.95 20.86 2 23 3 2725.5 -7.43 94.98
 23.86 15 0 17 5073.23 .03 246.43 288.98 20.86 16 24 50 4473.2 -7.44 243.98
 156.14 1 27 38 3325.53 .04 97.43 288.95 20.86 2 23 3 2725.5 -7.43 94.98
 23.86 15 0 17 5073.23 .03 246.43 288.98 20.86 16 24 50 4473.2 -7.44 243.98
 156.14 1 27 38 3325.53 .04 97.43 288.95 20.86 2 23 3 2725.5 -7.43 94.98

DIFFERENTIAL CORRECTIONS

TOE-2.1155 TRA 1.4597 TC3 -.0783 BAU 2.4366
 RD-14.0232 RRA 1.9519 RC3 -.1890 FAU-.03481
 FDE 2.7536 FRA -.3559 FC3 .0338 BSP 9782
 BDE14.1819 BRA 2.4374 BC3 .2046 FSP -165

MID-COURSE EXECUTION ACCURACY

SGT 1001.3 SGR 3102.8 SG3 51.6
 RRT .7882 RRF -.9994 RTF -.7689
 SGB 3260.3 R23 -.0794 R13 -.9967
 SG1 3205.3 SG2 596.5 THA 75.21

ORBIT DETERMINATION ACCURACY

ST 470.0 SR 2710.6 SS 1701.8
 CRT .9171 CRS 1.0000 CST .9137
 LSA 3229.5 MSA 187.1 SSA 1.1
 EL1 2744.8 EL2 185.1 ALF 80.92

LAUNCH DATE FEB 26 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 388.951

RL 148.13 LAL -.00 LOL 157.23 VL 27.650 GAL -6.48 AZL 55.76 MCA 186.02 SMA 129.19 ECC .18434 INC34.2369 V1 30.079
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.569 GAP 5.57 AZP 124.09 TAL 211.29 TAP 37.31 RCA 105.37 APO 153.00 V2 34.818
 RC 129.481 GL 62.16 GP -75.66 ZAL 101.65 ZAP 100.09 ETS 212.08 ZAE 84.00 ETE 134.63 ZAC 91.96 ETC 108.75 CLP 135.05

PLANETOCENTRIC CONIC

C3 305.592 VHL 17.481 DLA 69.17 RAL 349.11 RAD 6571.7 VEL 20.662 PTH 3.17 VHP 21.493 DPA -78.04 RAP 73.91 ECC 6.0293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.82 13 1 10 4986.88 -5.47 244.70 257.03 20.93 14 24 17 4386.9 -12.93 242.20
 156.18 23 24 44 3238.96 -5.46 95.67 257.02 20.93 24 18 43 2639.0 -12.92 93.16
 23.82 13 1 10 4986.88 -5.47 244.70 257.03 20.93 14 24 17 4386.9 -12.93 242.20
 156.18 23 24 44 3238.96 -5.46 95.67 257.02 20.93 24 18 43 2639.0 -12.92 93.16
 23.82 13 1 10 4986.88 -5.47 244.70 257.03 20.93 14 24 17 4386.9 -12.93 242.20
 156.18 23 24 44 3238.96 -5.46 95.67 257.02 20.93 24 18 43 2639.0 -12.92 93.16

DIFFERENTIAL CORRECTIONS

TOE 2.9389 TRA -.3741 TC3 -.0155 BAU .3408
 RDE-5.2572 RRA 3.2822 RC3 -.0820 FAU-.00080
 FDE 1.3503 FRA -.6105 FC3 .0023 BSP 11247
 BDE 6.0229 BRA 3.3035 BC3 .0834 FSP -199

MID-COURSE EXECUTION ACCURACY

SGT 1024.5 SGR 3493.3 SG3 61.9
 RRT -.7509 RRF -.9865 RTF .8451
 SGB 3640.5 R23 -.1164 R13 -.9923
 SG1 3580.1 SG2 660.2 THA 102.86

ORBIT DETERMINATION ACCURACY

ST 968.8 SR 1947.5 SS 879.6
 CRT -.9295 CRS -.9928 CST -.9670
 LSA 2323.5 MSA 326.1 SSA 1.6
 EL1 2151.0 EL2 323.6 ALF 115.43

LAUNCH DATE FEB 26 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 394.526

RL 148.13 LAL -0.00 LOL 157.23 VL 27.598 GAL -6.16 AZL 67.32 MCA 188.83 SMA 128.82 ECC .18369 INC22.6756 V1 30.079
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.537 GAP 5.70 AZP 112.43 TAL 209.60 TAP 38.44 RCA 105.16 APO 152.48 V2 34.825
 RC 131.823 GL 61.13 GP -74.76 ZAL 106.20 ZAP 105.20 ETS 264.11 ZAE 94.06 ETE 185.72 ZAC 100.05 ETC 161.09 CLP 175.78

PLANETOCENTRIC CONIC

C3 145.894 VHL 12.079 DLA 64.82 RAL 344.42 RAD 6570.6 VEL 16.347 PTH 2.86 VHP 14.735 DPA -67.86 RAP 59.24 ECC 3.4010
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.90 12 53 49 4859.60 -12.11 238.69 248.65 25.79 14 14 49 4259.6 -19.29 235.43
 151.10 22 54 43 3144.37 -12.10 95.21 248.63 25.79 23 47 7 2544.4 -19.28 91.95
 28.90 12 53 49 4859.60 -12.11 238.69 248.65 25.79 14 14 49 4259.6 -19.29 235.43
 151.10 22 54 43 3144.37 -12.10 95.21 248.63 25.79 23 47 7 2544.4 -19.28 91.95
 28.90 12 53 49 4859.60 -12.11 238.69 248.65 25.79 14 14 49 4259.6 -19.29 235.43
 151.10 22 54 43 3144.37 -12.10 95.21 248.63 25.79 23 47 7 2544.4 -19.28 91.95

DIFFERENTIAL CORRECTIONS

TOE 3.4096 TRA-2.7023 TC3 -.1828 BAU .3627
 RDE -.5107 RRA 1.4260 RC3 .0341 FAU .01291
 FDE 1.0186 FRA -.6596 FC3 -.0766 BSP 11858
 BOE 3.4477 BRA 3.0555 BC3 .1859 FSP -252

MID-COURSE EXECUTION ACCURACY

SGT 3448.3 SGR 1610.5 SG3 77.7
 RRT -.9398 RRF -.8988 RTF .9931
 SGB 3805.9 R23 -.1601 R13 -.9853
 SG1 3772.5 SG2 502.9 TMA 155.84

ORBIT DETERMINATION ACCURACY

ST 1852.9 SR 535.0 SS 676.3
 CRT -.8303 CRS .7822 CST -.9967
 LSA 2021.7 MSA 299.4 SSA 1.9
 EL1 1906.7 EL2 280.3 ALF 166.19

LAUNCH DATE FEB 26 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 400.277

RL 148.13 LAL -0.00 LOL 157.23 VL 27.544 GAL -5.87 AZL 73.22 MCA 191.83 SMA 128.45 ECC .18356 INC16.7814 V1 30.079
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.505 GAP 5.88 AZP 106.44 TAL 208.01 TAP 39.84 RCA 104.88 APO 152.03 V2 34.833
 RC 134.153 GL 57.61 GP -68.95 ZAL 110.14 ZAP 110.48 ETS 286.87 ZAE 101.15 ETE 207.02 ZAC 105.49 ETC 183.49 CLP-166.94

PLANETOCENTRIC CONIC

C3 87.759 VHL 9.368 DLA 60.72 RAL 346.85 RAD 6569.7 VEL 14.460 PTH 2.63 VHP 11.402 DPA -59.80 RAP 52.71 ECC 2.4443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.75 13 15 9 4736.41 -17.75 231.74 246.53 30.90 14 34 5 4136.4 -24.56 227.65
 146.25 22 52 46 3060.45 -17.74 93.93 246.51 30.90 23 43 46 2460.4 -24.55 89.84
 33.75 13 15 9 4736.41 -17.75 231.74 246.53 30.90 14 34 5 4136.4 -24.56 227.65
 146.25 22 52 46 3060.45 -17.74 93.93 246.51 30.90 23 43 46 2460.4 -24.55 89.84
 33.75 13 15 9 4736.41 -17.75 231.74 246.53 30.90 14 34 5 4136.4 -24.56 227.65
 146.25 22 52 46 3060.45 -17.74 93.93 246.51 30.90 23 43 46 2460.4 -24.55 89.84

DIFFERENTIAL CORRECTIONS

TOE 2.5687 TRA-2.7376 TC3 -.5206 BAU .6121
 RDE .5536 RRA .2460 RC3 -.0339 FAU .02215
 FDE .9911 FRA -.6806 FC3 -.2185 BSP 12201
 BOE 2.6277 BRA 2.7486 BC3 .5217 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 3890.6 SGR 461.8 SG3 97.0
 RRT -.2555 RRF -.0589 RTF .9768
 SGB 3917.9 R23 -.2007 R13 -.9761
 SG1 3892.4 SG2 446.3 TMA 178.24

ORBIT DETERMINATION ACCURACY

ST 1877.1 SR 350.9 SS 648.1
 CRT .6637 CRS -.7871 CST -.9838
 LSA 1997.3 MSA 278.8 SSA 2.6
 EL1 1891.8 EL2 260.5 ALF 7.21

LAUNCH DATE FEB 26 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 406.090

RL 148.13 LAL -0.00 LOL 157.23 VL 27.491 GAL -5.59 AZL 76.74 MCA 194.89 SMA 128.09 ECC .18369 INC13.2618 V1 30.079
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.474 GAP 6.09 AZP 102.83 TAL 206.44 TAP 41.33 RCA 104.56 APO 151.62 V2 34.841
 RC 136.471 GL 53.61 GP -62.71 ZAL 113.31 ZAP 115.64 ETS 294.94 ZAE 106.69 ETE 213.11 ZAC 109.76 ETC 190.73 CLP-160.71

PLANETOCENTRIC CONIC

C3 60.786 VHL 7.797 DLA 57.11 RAL 350.78 RAD 6569.1 VEL 13.496 PTH 2.47 VHP 9.536 DPA -52.81 RAP 48.79 ECC 2.0004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.08 13 42 0 4629.24 -21.85 224.70 245.77 35.80 14 59 9 4029.2 -28.25 219.82
 141.92 22 57 13 2995.92 -21.83 92.32 245.75 35.80 23 47 9 2395.9 -28.23 87.43
 38.08 13 42 0 4629.24 -21.85 224.70 245.77 35.80 14 59 9 4029.2 -28.25 219.82
 141.92 22 57 13 2995.92 -21.83 92.32 245.75 35.80 23 47 9 2395.9 -28.23 87.43
 38.08 13 42 0 4629.24 -21.85 224.70 245.77 35.80 14 59 9 4029.2 -28.25 219.82
 141.92 22 57 13 2995.92 -21.83 92.32 245.75 35.80 23 47 9 2395.9 -28.23 87.43

DIFFERENTIAL CORRECTIONS

TOE 2.1248 TRA-2.4987 TC3 -.9005 BAU .7397
 RDE .6785 RRA -.0601 RC3 -.1331 FAU .02984
 FDE 1.0126 FRA -.6826 FC3 -.4249 BSP 12583
 BOE 2.2305 BRA 2.4995 BC3 .9103 FSP -386

MID-COURSE EXECUTION ACCURACY

SGT 3980.7 SGR 546.1 SG3 117.4
 RRT .6187 RRF .7865 RTF .9644
 SGB 4018.0 R23 .2328 R13 .9666
 SG1 3995.2 SG2 427.5 TMA 4.91

ORBIT DETERMINATION ACCURACY

ST 1862.6 SR 499.2 SS 654.5
 CRT .8642 CRS -.9530 CST -.9760
 LSA 2018.2 MSA 271.0 SSA 3.4
 EL1 1912.7 EL2 244.6 ALF 13.26

LAUNCH DATE FEB 26 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 411.929

RL 148.13 LAL -0.00 LOL 157.23 VL 27.437 GAL -5.31 AZL 79.07 MCA 197.99 SMA 127.73 ECC .18400 INC10.9267 V1 30.079
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.443 GAP 6.29 AZP 100.40 TAL 204.87 TAP 42.87 RCA 104.23 APO 151.23 V2 34.850
 RC 138.775 GL 49.73 GP -56.88 ZAL 115.72 ZAP 120.52 ETS 298.75 ZAE 111.15 ETE 214.50 ZAC 113.39 ETC 193.34 CLP-158.35

PLANETOCENTRIC CONIC

C3 46.064 VHL 6.787 DLA 53.99 RAL 354.88 RAD 6568.7 VEL 12.939 PTH 2.36 VHP 8.407 DPA -46.56 RAP 46.34 ECC 1.7581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.90 14 9 0 4538.47 -24.60 218.00 245.46 40.29 15 24 38 3938.5 -30.58 212.42
 138.10 23 2 59 2949.41 -24.59 90.76 245.44 40.28 23 52 8 2349.4 -30.57 85.18
 41.90 14 9 0 4538.47 -24.60 218.00 245.46 40.29 15 24 38 3938.5 -30.58 212.42
 138.10 23 2 59 2949.41 -24.59 90.76 245.44 40.28 23 52 8 2349.4 -30.57 85.18
 41.90 14 9 0 4538.47 -24.60 218.00 245.46 40.29 15 24 38 3938.5 -30.58 212.42
 138.10 23 2 59 2949.41 -24.59 90.76 245.44 40.28 23 52 8 2349.4 -30.57 85.18

DIFFERENTIAL CORRECTIONS

TOE 1.8737 TRA-2.2943 TC3-1.3103 BAU .8182
 RDE .6416 RRA -.1357 RC3 -.2198 FAU .03636
 FDE 1.0255 FRA -.6629 FC3 -.6834 BSP 12983
 BOE 1.9805 BRA 2.2983 BC3 1.3286 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 4064.3 SGR 648.3 SG3 137.0
 RRT .7701 RRF .9054 RTF .9547
 SGB 4115.6 R23 .2548 R13 .9580
 SG1 4095.1 SG2 410.4 TMA 7.08

ORBIT DETERMINATION ACCURACY

ST 1865.9 SR 544.8 SS 662.5
 CRT .9000 CRS -.9777 CST -.9714
 LSA 2036.6 MSA 263.6 SSA 4.3
 EL1 1930.2 EL2 229.6 ALF 14.94

LAUNCH DATE FEB 26 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 417.776

RL 148.13 LAL -0.00 LOL 157.23 VL 27.384 GAL -5.02 AZL 80.74 MCA 201.12 SMA 127.37 ECC .18447 INC 9.2606 VI 30.079
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.412 GAP 6.51 AZP 98.65 TAL 203.30 TAP 44.42 RCA 103.87 APO 150.86 V2 34.860
 RC 141.067 GL 46.14 GP -51.63 ZAL 117.41 ZAP 125.02 ETS 301.00 ZAE 114.78 ETE 214.08 ZAC 116.60 ETC 194.20 CLP-157.60

PLANETOCENTRIC CONIC

C3 37.068 VHL 6.088 OLA 51.31 RAL 358.87 RAD 6568.4 VEL 12.587 PTH 2.28 VHP 7.691 DPA -40.93 RAP 44.86 ECC 1.6100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.24 14 34 53 4461.32 -26.39 211.85 245.47 44.25 15 49 15 3861.3 -31.96 205.69
 134.76 23 8 52 2916.97 -26.37 89.44 245.46 44.24 23 57 29 2317.0 -31.95 83.28
 45.24 14 34 53 4461.32 -26.39 211.85 245.47 44.25 15 49 15 3861.3 -31.96 205.69
 134.76 23 8 52 2916.97 -26.37 89.44 245.46 44.24 23 57 29 2317.0 -31.95 83.28
 45.24 14 34 53 4461.32 -26.39 211.85 245.47 44.25 15 49 15 3861.3 -31.96 205.69
 134.76 23 8 52 2916.97 -26.37 89.44 245.46 44.24 23 57 29 2317.0 -31.95 83.28

DIFFERENTIAL CORRECTIONS

TDE 1.7032 TRA-2.1274 TC3-1.7440 BAU .8760
 RDE .5759 RRA -.1453 RC3 -.2883 FAU .04182
 FDE 1.0150 FRA -.6254 FC3 -.9768 BSP 13502
 BOE 1.7980 BRA 2.1324 BC3 1.7677 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 4163.8 SGR 681.8 SG3 154.9
 RRT .8155 RRF .9338 RTF .9475
 SGB 4219.2 R23 .2664 R13 .9509
 SG1 4201.1 SG2 391.1 THA 7.67

ORBIT DETERMINATION ACCURACY

ST 1869.9 SR 546.0 SS 662.3
 CRT .9133 CRS -.9860 CST -.9683
 LSA 2041.6 MSA 255.5 SSA 5.3
 EL1 1936.1 EL2 214.8 ALF 15.12

LAUNCH DATE FEB 26 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 423.631

RL 148.13 LAL -0.00 LOL 157.23 VL 27.330 GAL -4.72 AZL 81.99 MCA 204.26 SMA 127.01 ECC .18506 INC 8.0072 VI 30.079
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.382 GAP 6.72 AZP 97.31 TAL 201.70 TAP 45.96 RCA 103.51 APO 150.51 V2 34.870
 RC 143.344 GL 42.88 GP -46.97 ZAL 118.47 ZAP 129.12 ETS 302.59 ZAE 117.73 ETE 212.86 ZAC 119.52 ETC 194.28 CLP-157.60

PLANETOCENTRIC CONIC

C3 31.095 VHL 5.576 OLA 49.03 RAL 2.70 RAD 6568.2 VEL 12.348 PTH 2.23 VHP 7.225 DPA -35.87 RAP 44.08 ECC 1.5117
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.14 14 59 30 4394.99 -27.51 206.30 245.82 47.67 16 12 45 3795.0 -32.72 199.69
 131.86 23 14 50 2894.67 -27.50 88.38 245.81 47.66 24 3 5 2294.7 -32.71 81.78
 48.14 14 59 30 4394.99 -27.51 206.30 245.82 47.67 16 12 45 3795.0 -32.72 199.69
 131.86 23 14 50 2894.67 -27.50 88.38 245.81 47.66 24 3 5 2294.7 -32.71 81.78
 48.14 14 59 30 4394.99 -27.51 206.30 245.82 47.67 16 12 45 3795.0 -32.72 199.69
 131.86 23 14 50 2894.67 -27.50 88.38 245.81 47.66 24 3 5 2294.7 -32.71 81.78

DIFFERENTIAL CORRECTIONS

TDE 1.6288 TRA-1.9313 TC3-2.1280 BAU .8941
 RDE .5302 RRA -.1144 RC3 -.3132 FAU .04413
 FDE 1.0254 FRA -.5286 FC3-1.2286 BSP 12790
 BOE 1.7129 BRA 1.9346 BC3 2.1509 FSP -510

MID-COURSE EXECUTION ACCURACY

SGT 4194.3 SGR 671.5 SG3 165.6
 RRT .8106 RRF .9332 RTF .9357
 SGB 4247.7 R23 .2870 R13 .9392
 SG1 4229.7 SG2 389.9 THA 7.46

ORBIT DETERMINATION ACCURACY

ST 1905.3 SR 547.5 SS 676.2
 CRT .9215 CRS -.9910 CST -.9650
 LSA 2079.0 MSA 254.8 SSA 6.3
 EL1 1971.7 EL2 205.5 ALF 15.00

LAUNCH DATE FEB 26 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 429.476

RL 148.13 LAL -0.00 LOL 157.23 VL 27.277 GAL -4.42 AZL 82.97 MCA 207.41 SMA 126.66 ECC .18580 INC 7.0256 VI 30.079
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.353 GAP 6.94 AZP 96.24 TAL 200.10 TAP 47.50 RCA 103.12 APO 150.19 V2 34.880
 RC 145.608 GL 39.91 GP -42.86 ZAL 118.96 ZAP 132.81 ETS 303.81 ZAE 120.11 ETE 211.29 ZAC 122.23 ETC 193.99 CLP-158.01

PLANETOCENTRIC CONIC

C3 26.880 VHL 5.185 OLA 47.08 RAL 6.41 RAD 6568.1 VEL 12.176 PTH 2.19 VHP 6.921 DPA -31.33 RAP 43.82 ECC 1.4424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.67 15 22 59 4337.25 -28.21 201.34 246.51 50.60 16 35 16 3737.2 -33.09 194.39
 129.33 23 20 59 2879.61 -28.20 87.59 246.50 50.59 24 8 58 2279.6 -33.08 80.64
 50.67 15 22 59 4337.25 -28.21 201.34 246.51 50.60 16 35 16 3737.2 -33.09 194.39
 129.33 23 20 59 2879.61 -28.20 87.59 246.50 50.59 24 8 58 2279.6 -33.08 80.64
 50.67 15 22 59 4337.25 -28.21 201.34 246.51 50.60 16 35 16 3737.2 -33.09 194.39
 129.33 23 20 59 2879.61 -28.20 87.59 246.50 50.59 24 8 58 2279.6 -33.08 80.64

DIFFERENTIAL CORRECTIONS

TDE 1.5225 TRA-1.8062 TC3-2.5892 BAU .9389
 RDE .4728 RRA -.1017 RC3 -.3495 FAU .04749
 FDE .9760 FRA -.4684 FC3-1.5295 BSP 13570
 BOE 1.5942 BRA 1.8090 BC3 2.6127 FSP -579

MID-COURSE EXECUTION ACCURACY

SGT 4316.3 SGR 656.9 SG3 178.3
 RRT .8238 RRF .9325 RTF .9322
 SGB 4366.0 R23 .2802 R13 .9352
 SG1 4350.3 SG2 369.5 THA 7.20

ORBIT DETERMINATION ACCURACY

ST 1900.2 SR 524.9 SS 659.8
 CRT .9259 CRS -.9933 CST -.9630
 LSA 2064.2 MSA 245.9 SSA 7.6
 EL1 1962.0 EL2 192.1 ALF 14.49

LAUNCH DATE FEB 26 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 435.319

RL 148.13 LAL -0.00 LOL 157.23 VL 27.223 GAL -4.11 AZL 83.77 MCA 210.56 SMA 126.30 ECC .18667 INC 6.2319 VI 30.079
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.324 GAP 7.16 AZP 95.37 TAL 198.47 TAP 49.04 RCA 102.73 APO 149.88 V2 34.891
 RC 147.857 GL 37.21 GP -39.26 ZAL 118.94 ZAP 136.14 ETS 304.80 ZAE 122.03 ETE 209.58 ZAC 124.79 ETC 193.53 CLP-158.63

PLANETOCENTRIC CONIC

C3 23.758 VHL 4.874 OLA 45.42 RAL 10.06 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 6.726 DPA -27.24 RAP 43.96 ECC 1.3910
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.87 15 45 29 4286.53 -28.63 196.94 247.53 53.10 16 56 56 3686.5 -33.22 189.71
 127.13 23 27 34 2869.44 -28.62 87.01 247.52 53.09 24 15 23 2269.4 -33.21 79.79
 52.87 15 45 29 4286.53 -28.63 196.94 247.53 53.10 16 56 56 3686.5 -33.22 189.71
 127.13 23 27 34 2869.44 -28.62 87.01 247.52 53.09 24 15 23 2269.4 -33.21 79.79
 52.87 15 45 29 4286.53 -28.63 196.94 247.53 53.10 16 56 56 3686.5 -33.22 189.71
 127.13 23 27 34 2869.44 -28.62 87.01 247.52 53.09 24 15 23 2269.4 -33.21 79.79

DIFFERENTIAL CORRECTIONS

TDE 1.4537 TRA-1.6690 TC3-3.0320 BAU .9700
 RDE .4308 RRA -.0826 RC3 -.3653 FAU .04918
 FDE .9311 FRA -.3860 FC3-1.7921 BSP 13927
 BOE 1.5162 BRA 1.6710 BC3 3.0540 FSP -611

MID-COURSE EXECUTION ACCURACY

SGT 4412.5 SGR 634.3 SG3 186.7
 RRT .8233 RRF .9236 RTF .9274
 SGB 4457.8 R23 .2731 R13 .9300
 SG1 4443.5 SG2 357.5 THA 6.79

ORBIT DETERMINATION ACCURACY

ST 1905.5 SR 508.2 SS 646.6
 CRT .9305 CRS -.9953 CST -.9609
 LSA 2061.6 MSA 239.1 SSA 9.0
 EL1 1963.9 EL2 180.7 ALF 14.06

LAUNCH DATE FEB 26 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 441.155

RL 148.13 LAL -.00 LOL 157.23 VL 27.170 GAL -3.79 AZL 84.43 HCA 213.73 SMA 125.96 ECC .18768 INC 5.5736 V1 30.079
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.296 GAP 7.38 AZP 94.64 TAL 196.84 TAP 50.56 RCA 102.32 APO 149.60 V2 34.902
 RC 150.092 GL 34.73 GP -36.11 ZAL 118.48 ZAP 139.12 ETS 305.63 ZAE 123.57 ETE 207.88 ZAC 127.25 ETC 193.00 CLP-159.38

PLANETOCENTRIC CONIC

C3 21.359 VHL 4.622 DLA 44.01 RAL 13.69 RAD 6567.9 VEL 11.947 PTH 2.13 VHP 6.607 DPA -23.57 RAP 44.42 ECC 1.3515
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.78 16 7 17 4241.51 -28.88 193.02 248.89 55.22 17 17 58 3641.5 -33.21 185.58
 125.22 23 34 43 2862.76 -28.86 86.61 248.88 55.21 24 22 25 2262.8 -33.20 79.17
 54.78 16 7 17 4241.51 -28.88 193.02 248.89 55.22 17 17 58 3641.5 -33.21 185.58
 125.22 23 34 43 2862.76 -28.86 86.61 248.88 55.21 24 22 25 2262.8 -33.20 79.17
 54.78 16 7 17 4241.51 -28.88 193.02 248.89 55.22 17 17 58 3641.5 -33.21 185.58
 125.22 23 34 43 2862.76 -28.86 86.61 248.88 55.21 24 22 25 2262.8 -33.20 79.17

DIFFERENTIAL CORRECTIONS

TDE 1.4015 TRA-1.5318 TC3-3.4729 BAU .9973
 RDE .3980 RRA -.0647 RC3 -.3709 FAU .04993
 FDE .8027 FRA -.2981 FC3-2.0238 BSP 14236
 BDE 1.4569 BRA 1.5331 BC3 3.4926 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 4505.0 SGR 611.1 SG3 192.4
 RRT .8182 RRF .9100 RTF .9232
 SGB 4546.2 R23 .2611 R13 .9254
 SG1 4532.8 SG2 349.2 THA 6.37

ORBIT DETERMINATION ACCURACY

ST 1911.9 SR 494.7 SS 631.7
 CRT .9355 CRS -.9969 CST -.9590
 LSA 2060.4 MSA 232.2 SSA 10.4
 EL1 1967.6 EL2 169.8 ALF 13.71

LAUNCH DATE FEB 26 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 446.983

RL 148.13 LAL -.00 LOL 157.23 VL 27.117 GAL -3.46 AZL 84.98 HCA 216.89 SMA 125.62 ECC .18883 INC 5.0156 V1 30.079
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.268 GAP 7.60 AZP 94.02 TAL 195.19 TAP 52.08 RCA 101.89 APO 149.34 V2 34.914
 RC 152.312 GL 32.44 GP -33.34 ZAL 117.61 ZAP 141.81 ETS 306.30 ZAE 124.82 ETE 206.24 ZAC 129.63 ETC 192.45 CLP-160.19

PLANETOCENTRIC CONIC

C3 19.465 VHL 4.412 DLA 42.80 RAL 17.34 RAD 6567.8 VEL 11.868 PTH 2.11 VHP 6.543 DPA -20.26 RAP 45.14 ECC 1.3203
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.46 16 28 33 4201.39 -29.01 189.53 250.56 57.04 17 38 34 3601.4 -33.13 181.93
 123.54 23 42 34 2858.53 -29.00 86.33 250.55 57.02 24 30 13 2258.5 -33.12 78.73
 56.46 16 28 33 4201.39 -29.01 189.53 250.56 57.04 17 38 34 3601.4 -33.13 181.93
 123.54 23 42 34 2858.53 -29.00 86.33 250.55 57.02 24 30 13 2258.5 -33.12 78.73
 56.46 16 28 33 4201.39 -29.01 189.53 250.56 57.04 17 38 34 3601.4 -33.13 181.93
 123.54 23 42 34 2858.53 -29.00 86.33 250.55 57.02 24 30 13 2258.5 -33.12 78.73

DIFFERENTIAL CORRECTIONS

TDE 1.3604 TRA-1.3928 TC3-3.9120 BAU 1.0226
 RDE .3723 RRA -.0489 RC3 -.3705 FAU .04999
 FDE .8320 FRA -.2087 FC3-2.2234 BSP 14541
 BDE 1.4104 BRA 1.3936 BC3 3.9295 FSP -643

MID-COURSE EXECUTION ACCURACY

SGT 4594.9 SGR 590.0 SG3 196.1
 RRT .8100 RRF .8928 RTF .9196
 SGB 4632.7 R23 .2450 R13 .9215
 SG1 4619.9 SG2 344.1 THA 5.97

ORBIT DETERMINATION ACCURACY

ST 1918.0 SR 484.2 SS 614.9
 CRT .9414 CRS -.9983 CST -.9571
 LSA 2059.3 MSA 224.9 SSA 11.9
 EL1 1971.8 EL2 158.9 ALF 13.46

LAUNCH DATE FEB 26 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 452.803

RL 148.13 LAL -.00 LOL 157.23 VL 27.065 GAL -3.12 AZL 85.47 HCA 220.06 SMA 125.28 ECC .19013 INC 4.5339 V1 30.079
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.241 GAP 7.83 AZP 93.47 TAL 193.53 TAP 53.59 RCA 101.46 APO 149.10 V2 34.926
 RC 154.516 GL 30.29 GP -30.92 ZAL 116.38 ZAP 144.23 ETS 306.84 ZAE 125.84 ETE 204.69 ZAC 131.96 ETC 191.91 CLP-161.05

PLANETOCENTRIC CONIC

C3 17.940 VHL 4.236 DLA 41.75 RAL 21.05 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 6.520 DPA -17.26 RAP 46.07 ECC 1.2952
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.93 16 49 31 4165.38 -29.07 186.41 252.55 58.60 17 58 57 3565.4 -32.99 178.68
 122.07 23 51 11 2856.19 -29.06 86.16 252.54 58.59 24 38 47 2256.2 -32.98 78.44
 57.93 16 49 31 4165.38 -29.07 186.41 252.55 58.60 17 58 57 3565.4 -32.99 178.68
 122.07 23 51 11 2856.19 -29.06 86.16 252.54 58.59 24 38 47 2256.2 -32.98 78.44
 57.93 16 49 31 4165.38 -29.07 186.41 252.55 58.60 17 58 57 3565.4 -32.99 178.68
 122.07 23 51 11 2856.19 -29.06 86.16 252.54 58.59 24 38 47 2256.2 -32.98 78.44

DIFFERENTIAL CORRECTIONS

TDE 1.3302 TRA-1.2479 TC3-4.3402 BAU 1.0446
 RDE .3528 RRA -.0344 RC3 -.3644 FAU .04938
 FDE .7827 FRA -.1176 FC3-2.3832 BSP 14758
 BDE 1.3762 BRA 1.2483 BC3 4.3554 FSP -644

MID-COURSE EXECUTION ACCURACY

SGT 4677.1 SGR 571.7 SG3 197.8
 RRT .7983 RRF .8722 RTF .9161
 SGB 4711.9 R23 .2274 R13 .9178
 SG1 4699.4 SG2 342.7 THA 5.60

ORBIT DETERMINATION ACCURACY

ST 1926.4 SR 477.6 SS 598.5
 CRT .9481 CRS -.9991 CST -.9554
 LSA 2061.5 MSA 217.4 SSA 13.6
 EL1 1979.2 EL2 147.8 ALF 13.30

LAUNCH DATE FEB 26 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 458.613

RL 148.13 LAL -.00 LOL 157.23 VL 27.012 GAL -2.77 AZL 85.89 HCA 223.24 SMA 124.94 ECC .19158 INC 4.1115 V1 30.079
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.215 GAP 8.06 AZP 93.00 TAL 191.85 TAP 55.09 RCA 101.01 APO 148.88 V2 34.938
 RC 156.704 GL 28.26 GP -28.78 ZAL 114.80 ZAP 146.43 ETS 307.24 ZAE 126.66 ETE 203.27 ZAC 134.26 ETC 191.39 CLP-161.92

PLANETOCENTRIC CONIC

C3 16.696 VHL 4.086 DLA 40.83 RAL 24.84 RAD 6567.7 VEL 11.751 PTH 2.07 VHP 6.528 DPA -14.53 RAP 47.17 ECC 1.2748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.26 17 10 25 4132.85 -29.06 183.59 254.84 59.95 18 19 18 3532.8 -32.82 175.77
 120.74 0 4 30 2855.50 -29.05 86.10 254.83 59.94 0 52 6 2255.5 -32.81 78.28
 59.26 17 10 25 4132.85 -29.06 183.59 254.84 59.95 18 19 18 3532.8 -32.82 175.77
 120.74 0 4 30 2855.50 -29.05 86.10 254.83 59.94 0 52 6 2255.5 -32.81 78.28
 59.26 17 10 25 4132.85 -29.06 183.59 254.84 59.95 18 19 18 3532.8 -32.82 175.77
 120.74 0 4 30 2855.50 -29.05 86.10 254.83 59.94 0 52 6 2255.5 -32.81 78.28

DIFFERENTIAL CORRECTIONS

TDE 1.3020 TRA-1.1018 TC3-4.7678 BAU 1.0672
 RDE .3369 RRA -.0222 RC3 -.3581 FAU .04852
 FDE .7304 FRA -.0319 FC3-2.5158 BSP 15058
 BDE 1.3449 BRA 1.1020 BC3 4.7812 FSP -647

MID-COURSE EXECUTION ACCURACY

SGT 4762.8 SGR 557.3 SG3 198.5
 RRT .7862 RRF .8497 RTF .9139
 SGB 4795.3 R23 .2061 R13 .9153
 SG1 4783.0 SG2 342.9 THA 5.28

ORBIT DETERMINATION ACCURACY

ST 1929.2 SR 472.7 SS 578.8
 CRT .9552 CRS -.9991 CST -.9536
 LSA 2058.3 MSA 208.9 SSA 15.4
 EL1 1981.6 EL2 136.1 ALF 13.24

LAUNCH DATE FEB 26 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 464.413

RL 148.13 LAL -.00 LOL 157.23 VL 26.960 GAL -2.41 AZL 86.26 MCA 226.42 SMA 124.61 ECC .19320 INC 3.7359 V1 30.079
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.189 GAP 8.29 AZP 92.58 TAL 190.17 TAP 56.59 RCA 100.54 APO 148.69 V2 34.951
 RC 158.875 GL 26.31 GP -26.90 ZAL 112.92 ZAP 148.42 ETS 307.51 ZAE 127.34 ETE 201.96 ZAC 136.55 ETC 190.90 CLP-162.81

PLANETOCENTRIC CONIC

C3 15.678 VML 3.960 DLA 40.01 RAL 28.75 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 6.562 DPA -12.04 RAP 48.43 ECC 1.2580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.47 17 31 27 4103.21 -29.00 181.03 257.42 61.14 18 39 50 3503.2 -32.61 173.13
 119.53 0 14 37 2856.48 -28.99 86.15 257.41 61.13 1 2 13 2256.5 -32.60 78.25
 60.47 17 31 27 4103.21 -29.00 181.03 257.42 61.14 18 39 50 3503.2 -32.61 173.13
 119.53 0 14 37 2856.48 -28.99 86.15 257.41 61.13 1 2 13 2256.5 -32.60 78.25
 60.47 17 31 27 4103.21 -29.00 181.03 257.42 61.14 18 39 50 3503.2 -32.61 173.13
 119.53 0 14 37 2856.48 -28.99 86.15 257.41 61.13 1 2 13 2256.5 -32.60 78.25

DIFFERENTIAL CORRECTIONS

TDE 1.2761 TRA -.9510 TC3-5.1838 BAU 1.0890
 RDE .3245 RRA -.0113 RC3 -.3510 FAU .04738
 FDE .6776 FRA .0498 FC3-2.6163 BSP 15362
 BDE 1.3167 BRA .9511 BC3 5.1957 FSP -647

MID-COURSE EXECUTION ACCURACY

SGT 4846.6 SGR 546.1 SG3 198.2
 RRT .7733 RRF .8256 RTF .9126
 SGB 4877.3 R23 .1834 R13 .9137
 SG1 4865.0 SG2 344.9 THA 5.01

ORBIT DETERMINATION ACCURACY

ST 1927.5 SR 469.7 SS 557.2
 CRT .9627 CRS -.9981 CST -.9517
 LSA 2050.9 MSA 199.7 SSA 17.4
 EL1 1980.0 EL2 123.7 ALF 13.25

LAUNCH DATE FEB 26 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 470.202

RL 148.13 LAL -.00 LOL 157.23 VL 26.908 GAL -2.04 AZL 86.60 MCA 229.60 SMA 124.29 ECC .19499 INC 3.3978 V1 30.079
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.163 GAP 8.53 AZP 92.20 TAL 188.48 TAP 58.08 RCA 100.05 APO 148.52 V2 34.964
 RC 161.027 GL 24.43 GP -25.23 ZAL 110.74 ZAP 150.25 ETS 307.65 ZAE 127.90 ETE 200.77 ZAC 138.82 ETC 190.43 CLP-163.69

PLANETOCENTRIC CONIC

C3 14.848 VML 3.853 DLA 39.24 RAL 32.77 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 6.616 DPA -9.75 RAP 49.83 ECC 1.2444
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.61 17 52 47 4075.94 -28.89 178.66 260.29 62.20 19 0 43 3475.9 -32.36 170.70
 118.39 0 25 21 2859.29 -28.88 86.31 260.28 62.18 1 13 1 2259.3 -32.35 78.35
 61.61 17 52 47 4075.94 -28.89 178.66 260.29 62.20 19 0 43 3475.9 -32.36 170.70
 118.39 0 25 21 2859.29 -28.88 86.31 260.28 62.18 1 13 1 2259.3 -32.35 78.35
 61.61 17 52 47 4075.94 -28.89 178.66 260.29 62.20 19 0 43 3475.9 -32.36 170.70
 118.39 0 25 21 2859.29 -28.88 86.31 260.28 62.18 1 13 1 2259.3 -32.35 78.35

DIFFERENTIAL CORRECTIONS

TDE 1.2519 TRA -.7926 TC3-5.5789 BAU 1.1095
 RDE .3151 RRA -.0007 RC3 -.3429 FAU .04598
 FDE .6262 FRA .1298 FC3-2.6808 BSP 15641
 BDE 1.2909 BRA .7926 BC3 5.5894 FSP -643

MID-COURSE EXECUTION ACCURACY

SGT 4926.0 SGR 538.0 SG3 197.0
 RRT .7587 RRF .8006 RTF .9115
 SGB 4955.3 R23 .1620 R13 .9125
 SG1 4943.0 SG2 349.2 THA 4.76

ORBIT DETERMINATION ACCURACY

ST 1921.0 SR 468.6 SS 535.1
 CRT .9702 CRS -.9955 CST -.9493
 LSA 2039.5 MSA 190.5 SSA 19.6
 EL1 1974.2 EL2 110.4 ALF 13.36

LAUNCH DATE FEB 26 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 475.979

RL 148.13 LAL -.00 LOL 157.23 VL 26.857 GAL -1.65 AZL 86.91 MCA 232.79 SMA 123.97 ECC .19696 INC 3.0901 V1 30.079
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.138 GAP 8.78 AZP 91.87 TAL 186.77 TAP 59.56 RCA 99.55 APO 148.38 V2 34.977
 RC 163.161 GL 22.60 GP -23.75 ZAL 108.30 ZAP 151.92 ETS 307.64 ZAE 128.38 ETE 199.69 ZAC 141.10 ETC 189.99 CLP-164.57

PLANETOCENTRIC CONIC

C3 14.179 VML 3.766 DLA 38.51 RAL 36.92 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 6.687 DPA -7.65 RAP 51.33 ECC 1.2334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.73 18 14 43 4050.31 -28.71 176.42 263.44 63.15 19 22 13 3450.3 -32.06 168.42
 117.27 0 36 32 2864.49 -28.70 86.64 263.43 63.13 1 24 16 2264.5 -32.05 78.63
 62.73 18 14 43 4050.31 -28.71 176.42 263.44 63.15 19 22 13 3450.3 -32.06 168.42
 117.27 0 36 32 2864.49 -28.70 86.64 263.43 63.13 1 24 16 2264.5 -32.05 78.63
 62.73 18 14 43 4050.31 -28.71 176.42 263.44 63.15 19 22 13 3450.3 -32.06 168.42
 117.27 0 36 32 2864.49 -28.70 86.64 263.43 63.13 1 24 16 2264.5 -32.05 78.63

DIFFERENTIAL CORRECTIONS

TDE 1.2256 TRA -.6277 TC3-5.9466 BAU 1.1291
 RDE .3078 RRA .0094 RC3 -.3347 FAU .04441
 FDE .5744 FRA .2056 FC3-2.7116 BSP 15907
 BDE 1.2637 BRA .6278 BC3 5.9560 FSP -637

MID-COURSE EXECUTION ACCURACY

SGT 5002.5 SGR 532.2 SG3 195.0
 RRT .7437 RRF .7754 RTF .9112
 SGB 5030.7 R23 .1412 R13 .9120
 SG1 5018.2 SG2 354.7 THA 4.55

ORBIT DETERMINATION ACCURACY

ST 1905.3 SR 468.4 SS 511.0
 CRT .9775 CRS -.9908 CST -.9462
 LSA 2019.2 MSA 181.1 SSA 22.0
 EL1 1959.6 EL2 96.1 ALF 13.55

LAUNCH DATE FEB 26 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 481.743

RL 148.13 LAL -.00 LOL 157.23 VL 26.806 GAL -1.26 AZL 87.19 MCA 235.98 SMA 123.65 ECC .19913 INC 2.8071 V1 30.079
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.114 GAP 9.03 AZP 91.57 TAL 185.06 TAP 61.04 RCA 99.03 APO 148.27 V2 34.990
 RC 165.276 GL 20.80 GP -22.43 ZAL 105.61 ZAP 153.46 ETS 307.50 ZAE 128.78 ETE 198.71 ZAC 143.37 ETC 189.56 CLP-165.44

PLANETOCENTRIC CONIC

C3 13.657 VML 3.696 DLA 37.79 RAL 41.19 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 6.773 DPA -5.71 RAP 52.94 ECC 1.2248
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.85 18 37 21 4025.90 -28.46 174.27 266.86 64.01 19 44 27 3425.9 -31.70 166.23
 116.15 0 48 0 2872.42 -28.45 87.15 266.85 64.00 1 35 52 2272.4 -31.69 79.12
 63.85 18 37 21 4025.90 -28.46 174.27 266.86 64.01 19 44 27 3425.9 -31.70 166.23
 116.15 0 48 0 2872.42 -28.45 87.15 266.85 64.00 1 35 52 2272.4 -31.69 79.12
 63.85 18 37 21 4025.90 -28.46 174.27 266.86 64.01 19 44 27 3425.9 -31.70 166.23
 116.15 0 48 0 2872.42 -28.45 87.15 266.85 64.00 1 35 52 2272.4 -31.69 79.12

DIFFERENTIAL CORRECTIONS

TDE 1.1978 TRA -.4521 TC3-6.2703 BAU 1.1464
 RDE .3026 RRA .0201 RC3 -.3253 FAU .04265
 FDE .5242 FRA .2804 FC3-2.7036 BSP 16103
 BDE 1.2354 BRA .4526 BC3 6.2787 FSP -625

MID-COURSE EXECUTION ACCURACY

SGT 5070.8 SGR 528.6 SG3 192.4
 RRT .7277 RRF .7507 RTF .9108
 SGB 5098.3 R23 .1232 R13 .9115
 SG1 5085.5 SG2 361.5 THA 4.36

ORBIT DETERMINATION ACCURACY

ST 1881.2 SR 469.3 SS 486.6
 CRT .9843 CRS -.9831 CST -.9422
 LSA 1991.4 MSA 172.2 SSA 24.7
 EL1 1937.2 EL2 80.4 ALF 13.82

LAUNCH DATE FEB 26 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 487.492

RL 148.13 LAL -.00 LOL 157.23 VL 26.756 GAL -.84 AZL 87.46 MCA 239.17 SMA 123.34 ECC .20150 INC 2.5444 V1 30.079
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.090 GAP 9.29 AZP 91.30 TAL 183.35 TAP 62.51 RCA 98.49 APO 148.19 V2 35.003
 RC 167.370 GL 19.03 GP -21.25 ZAL 102.70 ZAP 154.89 ETS 307.21 ZAE 129.12 ETE 197.83 ZAC 145.65 ETC 189.14 CLP-166.30

PLANETOCENTRIC CONIC

C3 13.272 VHL 3.643 OLA 37.05 RAL 45.58 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 6.873 DPA -3.92 RAP 54.64 ECC 1.2184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.04 19 0 56 4001.87 -28.12 172.13 270.53 64.82 20 7 38 3401.9 -31.27 164.07
 114.96 0 59 27 2883.99 -28.11 87.90 270.52 64.80 1 47 31 2284.0 -31.25 79.85
 65.04 19 0 56 4001.87 -28.12 172.13 270.53 64.82 20 7 38 3401.9 -31.27 164.07
 114.96 0 59 27 2883.99 -28.11 87.90 270.52 64.80 1 47 31 2284.0 -31.25 79.85
 65.04 19 0 56 4001.87 -28.12 172.13 270.53 64.82 20 7 38 3401.9 -31.27 164.07
 114.96 0 59 27 2883.99 -28.11 87.90 270.52 64.80 1 47 31 2284.0 -31.25 79.85

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1621 TRA -2.706 TC3-6.5510 BAU 1.1637 SGT 5138.8 SCR 526.5 SG3 189.3 ST 1840.3 SR 469.8 SS 459.5
 ROE .2985 RRA .0306 RC3 -.3166 FAU .04087 RRT .7122 RRF .7269 RTF .9113 CRT .9901 CRS -.9712 CST -.9367
 FDE .4726 FRA .3501 FC3-2.6658 B9P 16347 SGB 5165.7 R23 .1061 R13 .9119 LSA 1947.0 MSA 164.1 SSA 27.6
 BOE 1.1999 BRA .2723 BC3 6.3587 F9P -616 SGI 5152.6 SG2 368.6 THA 4.19 EL1 1898.3 EL2 63.8 ALF 14.20

LAUNCH DATE FEB 26 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 493.226

RL 148.13 LAL -.00 LOL 157.23 VL 26.706 GAL -.42 AZL 87.70 MCA 242.36 SMA 123.04 ECC .20409 INC 2.2985 V1 30.079
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.067 GAP 9.56 AZP 91.07 TAL 181.62 TAP 63.99 RCA 97.92 APO 148.15 V2 35.016
 RC 169.445 GL 17.27 GP -20.20 ZAL 99.59 ZAP 156.21 ETS 306.77 ZAE 129.42 ETE 197.04 ZAC 147.94 ETC 188.73 CLP-167.16

PLANETOCENTRIC CONIC

C3 13.017 VHL 3.608 OLA 36.27 RAL 50.06 RAD 6567.5 VEL 11.593 PTH 2.03 VHP 6.984 DPA -2.25 RAP 56.43 ECC 1.2142
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.32 19 25 36 3977.58 -27.69 169.94 274.42 65.57 20 31 54 3377.6 -30.74 161.88
 113.68 1 10 28 2899.92 -27.68 88.97 274.42 65.56 1 58 48 2299.9 -30.73 80.91
 66.32 19 25 36 3977.58 -27.69 169.94 274.42 65.57 20 31 54 3377.6 -30.74 161.88
 113.68 1 10 28 2899.92 -27.68 88.97 274.42 65.56 1 58 48 2299.9 -30.73 80.91
 66.32 19 25 36 3977.58 -27.69 169.94 274.42 65.57 20 31 54 3377.6 -30.74 161.88
 113.68 1 10 28 2899.92 -27.68 88.97 274.42 65.56 1 58 48 2299.9 -30.73 80.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1195 TRA -.0789 TC3-6.7698 BAU 1.1794 SGT 5200.8 SCR 525.2 SG3 185.9 ST 1784.4 SR 469.6 SS 429.9
 ROE .2953 RRA .0414 RC3 -.3078 FAU .03905 RRT .6978 RRF .7040 RTF .9127 CRT .9946 CRS -.9529 CST -.9291
 FDE .4195 FRA .4163 FC3-2.5969 B9P 16543 SGB 5227.2 R23 .0891 R13 .9131 LSA 1887.8 MSA 157.5 SSA 30.6
 BOE 1.1578 BRA .0891 BC3 6.7767 F9P -606 SGI 5213.7 SG2 375.2 THA 4.05 EL1 1844.6 EL2 47.0 ALF 14.68

LAUNCH DATE FEB 26 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 498.942

RL 148.13 LAL -.00 LOL 157.23 VL 26.656 GAL .03 AZL 87.93 MCA 245.56 SMA 122.73 ECC .20692 INC 2.0664 V1 30.079
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.044 GAP 9.83 AZP 90.86 TAL 179.90 TAP 65.46 RCA 97.34 APO 148.13 V2 35.030
 RC 171.498 GL 15.53 GP -19.25 ZAL 96.31 ZAP 157.44 ETS 306.18 ZAE 129.68 ETE 196.32 ZAC 150.24 ETC 188.32 CLP-168.00

PLANETOCENTRIC CONIC

C3 12.894 VHL 3.591 OLA 35.43 RAL 54.61 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 7.108 DPA -.71 RAP 58.29 ECC 1.2122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.75 19 51 36 3952.09 -27.14 167.63 278.53 66.29 20 57 28 3352.1 -30.10 159.58
 112.25 1 20 46 2921.30 -27.13 90.40 278.52 66.28 2 9 27 2321.3 -30.10 82.35
 67.75 19 51 36 3952.09 -27.14 167.63 278.53 66.29 20 57 28 3352.1 -30.10 159.58
 112.25 1 20 46 2921.30 -27.13 90.40 278.52 66.28 2 9 27 2321.3 -30.10 82.35
 67.75 19 51 36 3952.09 -27.14 167.63 278.53 66.29 20 57 28 3352.1 -30.10 159.58
 112.25 1 20 46 2921.30 -27.13 90.40 278.52 66.28 2 9 27 2321.3 -30.10 82.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0789 TRA .1240 TC3-6.9306 BAU 1.1958 SGT 5272.1 SCR 529.2 SG3 183.5 ST 1729.5 SR 472.8 SS 412.9
 ROE .2956 RRA .0547 RC3 -.2989 FAU .03724 RRT .6833 RRF .6884 RTF .9122 CRT .9970 CRS -.9284 CST -.9212
 FDE .3794 FRA .4892 FC3-2.5003 B9P 16493 SGB 5298.6 R23 .0846 R13 .9127 LSA 1832.9 MSA 156.9 SSA 35.2
 BOE 1.1186 BRA .1356 BC3 6.9370 F9P -554 SGI 5284.6 SG2 385.5 THA 3.94 EL1 1792.6 EL2 35.2 ALF 15.25

LAUNCH DATE FEB 26 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 504.640

RL 148.13 LAL -.00 LOL 157.23 VL 26.607 GAL .49 AZL 88.15 MCA 248.76 SMA 122.44 ECC .21000 INC 1.8456 V1 30.079
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.021 GAP 10.12 AZP 90.67 TAL 178.17 TAP 66.93 RCA 96.73 APO 148.15 V2 35.043
 RC 173.532 GL 13.80 GP -18.39 ZAL 92.90 ZAP 158.59 ETS 305.42 ZAE 129.92 ETE 195.67 ZAC 152.55 ETC 187.89 CLP-168.84

PLANETOCENTRIC CONIC

C3 12.903 VHL 3.592 OLA 34.53 RAL 59.19 RAD 6567.5 VEL 11.588 PTH 2.03 VHP 7.243 DPA .73 RAP 60.21 ECC 1.2124
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.36 20 19 11 3924.18 -26.49 165.11 282.80 66.99 21 24 35 3324.2 -29.36 157.08
 110.64 1 29 44 2949.52 -26.47 92.31 282.80 66.98 2 18 54 2349.5 -29.35 84.28
 69.36 20 19 11 3924.18 -26.49 165.11 282.80 66.99 21 24 35 3324.2 -29.36 157.08
 110.64 1 29 44 2949.52 -26.47 92.31 282.80 66.98 2 18 54 2349.5 -29.35 84.28
 69.36 20 19 11 3924.18 -26.49 165.11 282.80 66.99 21 24 35 3324.2 -29.36 157.08
 110.64 1 29 44 2949.52 -26.47 92.31 282.80 66.98 2 18 54 2349.5 -29.35 84.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.0026 TRA .3304 TC3-7.0073 BAU 1.2098 SGT 5320.7 SCR 525.5 SG3 178.4 ST 1617.8 SR 467.8 SS 373.8
 ROE .2923 RRA .0654 RC3 -.2878 FAU .03532 RRT .6680 RRF .6642 RTF .9150 CRT .9961 CRS -.8856 CST -.9054
 FDE .3162 FRA .5439 FC3-2.3697 B9P 16964 SGB 5346.8 R23 .0667 R13 .9154 LSA 1717.5 MSA 157.6 SSA 35.5
 BOE 1.0444 BRA .3368 BC3 7.0132 F9P -579 SGI 5332.3 SG2 390.2 THA 3.79 EL1 1683.6 EL2 39.9 ALF 16.08

LAUNCH DATE FEB 26 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 510.317

RL 148.13 LAL -.00 LOL 157.23 VL 26.558 GAL .96 AZL 88.37 MCA 251.97 SMA 122.15 ECC .21335 INC 1.6340 VI 30.079
 RP 108.10 LAP -1.55 LOP 49.18 VP 36.999 GAP 10.42 A2P 90.51 TAL 176.44 TAP 68.41 RCA 96.09 APO 148.21 V2 35.056
 RC 175.544 GL 12.10 GP -17.62 ZAL 89.37 ZAP 159.66 ETS 304.50 ZAE 130.13 ETE 195.09 ZAC 154.87 ETC 187.44 CLP-169.66

PLANETOCENTRIC CONIC

C3 13.050 VML 3.613 DLA 33.55 RAL 63.77 RAD 6567.5 VEL 11.595 PTH 2.03 VMP 7.389 DPA 2.07 RAP 62.20 ECC 1.2148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.21 20 48 38 3892.50 -25.71 162.28 287.22 67.67 21 53 30 3292.5 -28.51 154.27
 108.79 1 36 50 2986.08 -25.70 94.80 287.22 67.65 2 26 36 2386.1 -28.50 86.80
 71.21 20 48 38 3892.50 -25.71 162.28 287.22 67.67 21 53 30 3292.5 -28.51 154.27
 108.79 1 36 50 2986.08 -25.70 94.80 287.22 67.65 2 26 36 2386.1 -28.50 86.80
 110.00 2 34 4 2810.85 -29.77 82.85 288.89 72.36 3 20 55 2210.9 -31.89 74.28
 110.00 0 54 29 3115.72 -21.78 102.90 285.25 62.98 1 46 25 2515.7 -25.22 95.45

DIFFERENTIAL CORRECTIONS

TOE .9251 TRA .5494 TC3-7.0049 BAU 1.2231
 RDE .2913 RRA .0781 RC3 -.2761 FAU .03343
 FDE .2613 FRA .6027 FC3-2.2178 BSP 17165
 BOE .9699 BRA .5549 BC3 7.0103 FSP -568

MID-COURSE EXECUTION ACCURACY

SGT 5372.2 SGR 524.7 SG3 174.0
 RRT .6538 RRF .6451 RTF .9167
 SGB 5397.7 R23 .0561 R13 .9170
 SG1 5383.2 SG2 396.2 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 1508.1 SR 464.2 SS 345.3
 CRT .9896 CRS -.8250 CST -.8869
 LSA 1606.1 MSA 168.0 SSA 36.1
 EL1 1576.7 EL2 63.8 ALF 16.97

LAUNCH DATE FEB 26 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 515.970

RL 148.13 LAL -.00 LOL 157.23 VL 26.510 GAL 1.46 AZL 88.57 MCA 255.17 SMA 121.86 ECC .21700 INC 1.4299 VI 30.079
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.977 GAP 10.74 A2P 90.37 TAL 174.71 TAP 69.89 RCA 95.42 APO 148.31 V2 35.069
 RC 177.535 GL 10.43 GP -16.92 ZAL 85.78 ZAP 160.66 ETS 303.40 ZAE 130.32 ETE 194.55 ZAC 157.19 ETC 186.94 CLP-170.48

PLANETOCENTRIC CONIC

C3 13.343 VML 3.653 DLA 32.49 RAL 68.30 RAD 6567.5 VEL 11.607 PTH 2.03 VMP 7.548 DPA 3.31 RAP 64.24 ECC 1.2196
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.36 21 20 25 3855.00 -24.82 158.99 291.75 68.33 22 24 40 3255.0 -27.54 151.02
 106.64 1 41 13 3033.19 -24.81 98.03 291.74 68.31 2 31 46 2433.2 -27.53 90.06
 73.36 21 20 25 3855.00 -24.82 158.99 291.75 68.33 22 24 40 3255.0 -27.54 151.02
 106.64 1 41 13 3033.19 -24.81 98.03 291.74 68.31 2 31 46 2433.2 -27.53 90.06
 110.00 3 23 28 2717.82 -31.50 76.16 294.19 75.97 4 8 46 2117.8 -33.10 67.30
 110.00 0 41 17 3218.36 -18.48 109.04 288.50 60.72 1 34 56 2618.4 -22.24 101.92

DIFFERENTIAL CORRECTIONS

TOE .8360 TRA .7780 TC3-6.9255 BAU 1.2363
 RDE .2911 RRA .0914 RC3 -.2644 FAU .03166
 FDE .2074 FRA .6588 FC3-2.0542 BSP 17391
 BOE .8852 BRA .7833 BC3 6.9306 FSP -558

MID-COURSE EXECUTION ACCURACY

SGT 5423.2 SGR 524.2 SG3 169.7
 RRT .6410 RRF .6281 RTF .9192
 SGB 5448.5 R23 .0465 R13 .9194
 SG1 5433.7 SG2 401.5 THA 3.56

ORBIT DETERMINATION ACCURACY

ST 1389.5 SR 459.5 SS 321.4
 CRT .9738 CRS -.7398 CST -.8658
 LSA 1486.2 MSA 188.1 SSA 35.2
 EL1 1460.2 EL2 99.4 ALF 17.94

LAUNCH DATE FEB 26 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 521.598

RL 148.13 LAL -.00 LOL 157.23 VL 26.463 GAL 1.98 AZL 88.77 MCA 258.38 SMA 121.58 ECC .22096 INC 1.2315 VI 30.079
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.955 GAP 11.07 A2P 90.25 TAL 172.99 TAP 71.37 RCA 94.72 APO 148.44 V2 35.083
 RC 179.506 GL 8.80 GP -16.28 ZAL 82.16 ZAP 161.59 ETS 302.11 ZAE 130.49 ETE 194.07 ZAC 159.53 ETC 186.37 CLP-171.29

PLANETOCENTRIC CONIC

C3 13.792 VML 3.714 DLA 31.36 RAL 72.75 RAD 6567.5 VEL 11.627 PTH 2.04 VMP 7.718 DPA 4.47 RAP 66.34 ECC 1.2270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.92 21 55 31 3808.04 -23.82 155.00 296.35 68.97 22 58 59 3208.0 -26.47 147.07
 104.08 1 41 39 3094.59 -23.81 102.27 296.35 68.96 2 33 14 2494.6 -26.46 94.34
 75.92 21 55 31 3808.04 -23.82 155.00 296.35 68.97 22 58 59 3208.0 -26.47 147.07
 104.08 1 41 39 3094.59 -23.81 102.27 296.35 68.96 2 33 14 2494.6 -26.46 94.34
 110.00 4 4 33 2650.32 -32.50 71.15 299.20 78.78 4 48 43 2050.3 -33.71 62.13
 110.00 0 35 44 3300.31 -15.68 113.75 292.16 59.23 1 30 44 2700.3 -19.65 106.87

DIFFERENTIAL CORRECTIONS

TOE .7385 TRA 1.0228 TC3-6.7514 BAU 1.2458
 RDE .2919 RRA .1060 RC3 -.2498 FAU .02978
 FDE .1557 FRA .7162 FC3-1.8691 BSP 17489
 BOE .7941 BRA 1.0282 BC3 6.7561 FSP -543

MID-COURSE EXECUTION ACCURACY

SGT 5464.5 SGR 523.4 SG3 165.3
 RRT .6285 RRF .6129 RTF .9209
 SGB 5489.5 R23 .0397 R13 .9211
 SG1 5474.4 SG2 406.3 THA 3.46

ORBIT DETERMINATION ACCURACY

ST 1276.0 SR 454.0 SS 305.7
 CRT .9421 CRS -.6281 CST -.8466
 LSA 1370.6 MSA 219.4 SSA 32.9
 EL1 1346.7 EL2 144.2 ALF 18.76

LAUNCH DATE FEB 26 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 527.195

RL 148.13 LAL -.00 LOL 157.23 VL 26.416 GAL 2.52 AZL 88.96 MCA 261.59 SMA 121.30 ECC .22526 INC 1.0376 VI 30.079
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.933 GAP 11.41 A2P 90.15 TAL 171.27 TAP 72.86 RCA 93.98 APO 148.63 V2 35.095
 RC 181.455 GL 7.23 GP -15.71 ZAL 78.55 ZAP 162.46 ETS 300.62 ZAE 130.65 ETE 193.63 ZAC 161.87 ETC 185.69 CLP-172.10

PLANETOCENTRIC CONIC

C3 14.412 VML 3.796 DLA 30.17 RAL 77.09 RAD 6567.6 VEL 11.653 PTH 2.05 VMP 7.901 DPA 5.54 RAP 68.48 ECC 1.2372
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.12 22 35 59 3744.35 -22.73 149.77 301.01 69.61 23 38 24 3144.3 -25.30 141.89
 100.88 1 35 46 3177.64 -22.72 108.05 301.00 69.59 2 28 43 2577.6 -25.29 100.17
 79.12 22 35 59 3744.35 -22.73 149.77 301.01 69.61 23 38 24 3144.3 -25.30 141.89
 100.88 1 35 46 3177.64 -22.72 108.05 301.00 69.59 2 28 43 2577.6 -25.29 100.17
 110.00 4 41 35 2595.11 -33.16 66.98 304.08 81.17 5 24 50 1995.1 -34.02 57.85
 110.00 0 33 16 3374.87 -13.04 117.91 296.02 58.12 1 29 31 2774.9 -17.16 111.22

DIFFERENTIAL CORRECTIONS

TOE .6256 TRA 1.2746 TC3-6.5155 BAU 1.2562
 RDE .2930 RRA .1208 RC3 -.2351 FAU .02803
 FDE .1033 FRA .7697 FC3-1.6838 BSP 17671
 BOE .6908 BRA 1.2803 BC3 6.5197 FSP -531

MID-COURSE EXECUTION ACCURACY

SGT 5506.0 SGR 521.5 SG3 160.8
 RRT .6165 RRF .5981 RTF .9233
 SGB 5530.6 R23 .0327 R13 .9234
 SG1 5515.4 SG2 409.9 THA 3.36

ORBIT DETERMINATION ACCURACY

ST 1165.8 SR 446.8 SS 296.2
 CRT .8843 CRS -.4881 CST -.8341
 LSA 1256.0 MSA 260.8 SSA 30.2
 EL1 1232.8 EL2 197.3 ALF 19.23

LAUNCH DATE FEB 26 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -0.00 LOL 157.23 VL 26.369 GAL 3.08 AZL 89.15 MCA 264.80 SMA 121.03 ECC .22994 INC .8467 V1 30.079
 RP 107.94 LAP -.84 LOP 62.03 VP 36.912 GAP 11.78 AZP 90.08 TAL 169.55 TAP 74.36 RCA 93.20 APO 148.86 V2 35.108
 RC 183.384 GL 5.73 GP -15.18 ZAL 74.97 ZAP 163.28 ETS 298.92 ZAE 130.80 ETE 193.23 ZAC 164.21 ETC 184.86 CLP-172.90

PLANETOCENTRIC CONIC

C3 15.219 VHL 3.901 CLA 28.94 RAL 81.27 RAD 6567.6 VEL 11.688 PTH 2.06 VHP 8.099 DPA 6.53 RAP 70.66 ECC 1.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.78 23 29 4 3639.86 -21.56 141.57 305.68 70.22 24 29 44 3039.9 -24.06 133.74
 96.22 1 16 4 3306.42 -21.55 117.12 305.67 70.21 2 11 10 2706.4 -24.05 109.30
 100.00 2 49 18 3006.98 -26.43 96.65 307.32 75.51 3 39 25 2407.0 -28.16 88.28
 100.00 0 42 26 3414.54 -16.83 123.04 303.61 64.93 1 39 21 2814.5 -20.07 115.74
 110.00 5 15 46 2548.35 -33.59 63.40 308.87 83.24 5 58 14 1948.4 -34.16 54.20
 110.00 0 32 28 3445.93 -10.46 121.79 299.99 57.27 1 29 54 2845.9 -14.70 115.26

DIFFERENTIAL CORRECTIONS

TDE .5015 TRA 1.5392 TC3-6.2148 BAU 1.2653
 RDE .2948 RRA .1362 RC3 -.2193 FAU .02632
 FDE .0518 FRA .8221 FC3-1.4974 BSP 17842
 BDE .5818 BRA 1.5452 BC3 6.2186 FSP -519

MID-COURSE EXECUTION ACCURACY

SGT 5543.2 SGR 518.7 SG3 156.3
 RRT .6049 RRF .5842 RTF .9257
 SGB 5567.4 R23 .0265 R13 .9258
 SG1 5552.2 SG2 412.3 THA 3.26

ORBIT DETERMINATION ACCURACY

ST 1079.0 SR 438.4 SS 295.5
 CRT .7881 CRS -.3322 CST -.8381
 LSA 1160.8 MSA 309.3 SSA 27.4
 EL1 1136.1 EL2 256.3 ALF 18.75

LAUNCH DATE FEB 26 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -0.00 LOL 157.23 VL 26.324 GAL 3.68 AZL 89.34 MCA 268.02 SMA 120.77 ECC .23503 INC .6576 V1 30.079
 RP 107.90 LAP -.66 LOP 65.24 VP 36.891 GAP 12.16 AZP 90.02 TAL 167.85 TAP 75.87 RCA 92.38 APO 149.15 V2 35.120
 RC 185.291 GL 4.29 GP -14.70 ZAL 71.47 ZAP 164.03 ETS 297.00 ZAE 130.93 ETE 192.86 ZAC 166.56 ETC 183.78 CLP-173.70

PLANETOCENTRIC CONIC

C3 16.234 VHL 4.029 CLA 27.67 RAL 85.28 RAD 6567.7 VEL 11.731 PTH 2.07 VHP 8.311 DPA 7.44 RAP 72.88 ECC 1.2672
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 45 3314.48 -24.31 118.65 311.67 75.01 2 29 0 2714.5 -26.13 110.46
 90.00 23 43 21 3661.02 -16.43 140.97 308.75 66.61 24 44 22 3061.0 -19.46 133.61
 100.00 3 38 27 2912.50 -27.87 90.00 312.59 78.72 4 27 0 2312.5 -29.14 81.42
 100.00 0 25 16 3538.23 -13.13 130.35 307.14 62.90 1 24 15 2938.2 -16.66 123.34
 110.00 5 47 34 2508.44 -33.87 60.31 313.59 85.05 6 29 22 1908.4 -34.18 51.08
 110.00 0 32 39 3515.06 -7.89 125.50 304.03 56.63 1 31 14 2915.1 -12.23 119.08

DIFFERENTIAL CORRECTIONS

TDE .3684 TRA 1.8177 TC3-5.8588 BAU 1.2723
 RDE .2974 RRA .1524 RC3 -.2022 FAU .02462
 FDE .0026 FRA .8747 FC3-1.3131 BSP 17989
 BDE .4735 BRA 1.8241 BC3 5.8622 FSP -507

MID-COURSE EXECUTION ACCURACY

SGT 5575.1 SGR 515.1 SG3 151.9
 RRT .5937 RRF .5715 RTF .9279
 SGB 5598.8 R23 .0218 R13 .9280
 SG1 5583.5 SG2 413.9 THA 3.16

ORBIT DETERMINATION ACCURACY

ST 1030.1 SR 429.3 SS 303.4
 CRT .6479 CRS -.1799 CST -.8623
 LSA 1099.7 MSA 357.0 SSA 24.9
 EL1 1070.7 EL2 314.6 ALF 16.58

LAUNCH DATE FEB 26 1969

FLIGHT TIME 186.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -0.00 LOL 157.23 VL 26.278 GAL 4.30 AZL 89.53 MCA 271.24 SMA 120.51 ECC .24056 INC .4691 V1 30.079
 RP 107.87 LAP -.47 LOP 68.46 VP 36.870 GAP 12.57 AZP 89.99 TAL 166.15 TAP 77.39 RCA 91.52 APO 149.49 V2 35.132
 RC 187.175 GL 2.94 GP -14.26 ZAL 68.07 ZAP 164.73 ETS 294.84 ZAE 131.05 ETE 192.52 ZAC 168.90 ETC 182.29 CLP-174.50

PLANETOCENTRIC CONIC

C3 17.481 VHL 4.181 CLA 26.38 RAL 89.10 RAD 6567.7 VEL 11.784 PTH 2.08 VHP 8.539 DPA 8.28 RAP 75.14 ECC 1.2877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 27 26 3203.95 -26.04 111.02 317.03 78.46 3 20 50 2603.9 -27.37 102.61
 90.00 23 20 6 3805.58 -12.34 149.61 312.16 64.31 24 23 32 3205.6 -15.69 142.54
 100.00 4 18 11 2846.96 -28.65 85.28 317.56 81.09 5 5 38 2247.0 -29.59 76.60
 100.00 0 15 59 3637.81 -9.97 136.06 310.93 61.67 1 16 37 3037.8 -13.68 129.23
 110.00 6 17 11 2474.57 -34.03 57.68 318.24 86.60 6 58 26 1874.6 -34.13 48.44
 110.00 0 33 28 3582.96 -5.33 129.09 308.11 56.19 1 33 11 2983.0 -9.74 122.77

DIFFERENTIAL CORRECTIONS

TDE .2292 TRA 2.1136 TC3-5.4556 BAU 1.2757
 RDE .3011 RRA .1693 RC3 -.1839 FAU .02290
 FDE .0436 FRA .9281 FC3-1.1342 BSP 18040
 BDE .3784 BRA 2.1204 BC3 5.4587 FSP -492

MID-COURSE EXECUTION ACCURACY

SGT 5600.4 SGR 510.9 SG3 147.6
 RRT .5832 RRF .5601 RTF .9300
 SGB 5623.6 R23 .0182 R13 .9301
 SG1 5608.3 SG2 414.4 THA 3.06

ORBIT DETERMINATION ACCURACY

ST 1028.7 SR 419.9 SS 318.0
 CRT .4759 CRS -.0473 CST -.8982
 LSA 1086.7 MSA 392.7 SSA 22.7
 EL1 1050.6 EL2 361.6 ALF 12.50

LAUNCH DATE FEB 26 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

RL 148.13 LAL -0.00 LOL 157.23 VL 26.234 GAL 4.95 AZL 89.72 MCA 274.46 SMA 120.25 ECC .24659 INC .2799 V1 30.079
 RP 107.83 LAP -.28 LOP 71.68 VP 36.850 GAP 13.01 AZP 89.98 TAL 164.47 TAP 78.93 RCA 90.60 APO 149.90 V2 35.144
 RC 189.037 GL 1.68 GP -13.86 ZAL 64.79 ZAP 165.38 ETS 292.43 ZAE 131.15 ETE 192.21 ZAC 171.24 ETC 180.05 CLP-175.30

PLANETOCENTRIC CONIC

C3 18.991 VHL 4.358 CLA 25.10 RAL 92.71 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 8.785 DPA 9.05 RAP 77.43 ECC 1.3125
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 8 16 3133.70 -26.90 106.06 322.01 80.80 4 0 29 2533.7 -27.90 97.53
 90.00 23 8 5 3914.57 -9.04 155.92 315.92 63.05 24 13 20 3314.6 -12.59 149.04
 100.00 4 52 47 2796.73 -29.13 81.62 322.37 82.96 5 39 23 2196.7 -29.79 72.88
 100.00 0 10 11 3726.77 -7.06 141.06 314.85 60.88 1 12 18 3126.8 -10.89 134.36
 110.00 6 44 47 2446.31 -34.13 55.48 322.84 87.90 7 25 33 1846.3 -34.04 46.24
 110.00 0 34 40 3649.95 -2.78 132.60 312.21 55.92 1 35 30 3050.0 -7.24 126.35

DIFFERENTIAL CORRECTIONS

TDE .0777 TRA 2.4203 TC3-5.0364 BAU 1.2794
 RDE .3053 RRA .1862 RC3 -.1661 FAU .02131
 FDE .0896 FRA .9795 FC3 -.9713 BSP 18176
 BDE .3150 BRA 2.4274 BC3 5.0391 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 5623.7 SGR 505.1 SG3 143.4
 RRT .5726 RRF .5485 RTF .9325
 SGB 5646.4 R23 .0143 R13 .9326
 SG1 5631.2 SG2 413.5 THA 2.96

ORBIT DETERMINATION ACCURACY

ST 1067.3 SR 409.5 SS 336.5
 CRT .2907 CRS .0692 CST -.9322
 LSA 1118.8 MSA 409.6 SSA 20.8
 EL1 1074.9 EL2 389.0 ALF 7.33

LAUNCH DATE FEB 26 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 554.577

RL 148.13 LAL -0.00 LOL 157.23 VL 26.189 GAL 5.64 AZL 89.91 MCA 277.68 SMA 120.00 ECC .25316 INC .0885 V1 30.079
 RP 107.79 LAP -.09 LOP 74.91 VP 36.829 GAP 13.48 AZP 89.99 TAL 162.80 TAP 80.48 RCA 89.62 APO 150.38 V2 35.155
 RC 190.875 GL .51 GP -13.50 ZAL 61.64 ZAP 165.96 ETS 289.75 ZAE 131.24 ETE 191.92 ZAC 173.55 ETC 176.23 CLP-176.10

PLANETOCENTRIC CONIC

C3 20.800 VHL 4.561 CLA 23.84 RAL 96.10 RAD 6567.8 VEL 11.924 PTH 2.12 VHP 9.051 DPA 9.74 RAP 79.74 ECC 1.3423
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 0 3081.92 -27.41 102.35 326.80 82.59 4 34 22 2481.9 -28.15 93.77
 90.00 23 0 27 4009.60 -6.07 161.32 319.80 62.29 24 7 17 3409.6 -9.73 154.56
 100.00 5 23 42 2757.23 -29.42 78.73 327.06 84.45 6 9 40 2157.2 -29.88 69.95
 100.00 0 6 22 3809.53 -4.29 145.65 318.82 60.39 1 9 51 3209.5 -8.20 139.04
 110.00 7 10 25 2423.36 -34.17 53.69 327.38 88.96 7 50 49 1823.4 -33.94 44.45
 110.00 0 36 8 3716.16 -.25 136.06 316.31 55.82 1 38 4 3116.2 -4.74 129.84

DIFFERENTIAL CORRECTIONS

TDE -.0820 TRA 2.7431 TC3-4.6038 BAU 1.2808
 ROE .3102 RRA .2033 RC3 -.1483 FAU .01975
 FDE -.1338 FRA 1.0315 FC3 -.8222 BSP 18301
 BOE .3209 BRA 2.7507 BC3 4.6062 FSP -469

MID-COURSE EXECUTION ACCURACY

SGT 5642.6 SGR 498.2 SG3 139.3
 RRT .5621 RRF .5375 RTF .9351
 SGB 5664.5 R23 .0110 R13 .9351
 SG1 5649.6 SG2 411.5 THA 2.86

ORBIT DETERMINATION ACCURACY

ST 1141.9 SR 398.7 SS 357.8
 CRT .1210 CRS .1635 CST -.9578
 LSA 1193.3 MSA 408.1 SSA 19.2
 EL1 1143.1 EL2 395.3 ALF 2.75

LAUNCH DATE FEB 26 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 559.886

RL 148.13 LAL -0.00 LOL 157.23 VL 26.146 GAL 6.37 AZL 90.10 MCA 280.90 SMA 119.75 ECC .26032 INC .1035 V1 30.079
 RP 107.76 LAP -.10 LOP 78.13 VP 36.809 GAP 13.98 AZP 90.02 TAL 161.16 TAP 82.06 RCA 88.58 APO 150.92 V2 35.166
 RC 192.690 GL -.57 GP -13.16 ZAL 58.66 ZAP 166.49 ETS 286.80 ZAE 131.32 ETE 191.65 ZAC 175.81 ETC 168.31 CLP-176.91

PLANETOCENTRIC CONIC

C3 22.951 VHL 4.791 CLA 22.60 RAL 99.29 RAD 6567.9 VEL 12.014 PTH 2.14 VHP 9.338 DPA 10.37 RAP 82.07 ECC 1.3777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 38 3042.37 -27.72 99.50 331.46 83.99 5 4 21 2442.4 -28.27 90.88
 90.00 22 55 13 4096.71 -3.29 166.22 323.75 61.86 24 3 30 3496.7 -7.03 159.53
 100.00 5 51 41 2726.25 -29.60 76.44 331.66 85.64 6 37 7 2126.3 -29.89 67.65
 100.00 0 3 48 3888.06 -1.64 149.97 322.83 60.15 1 8 36 3288.1 -5.60 143.42
 110.00 7 34 13 2405.46 -34.18 52.29 331.87 89.78 8 14 18 1805.5 -33.83 43.06
 110.00 0 37 45 3781.62 2.25 139.47 320.40 55.88 1 40 47 3181.6 -2.24 133.27

DIFFERENTIAL CORRECTIONS

TDE -.2483 TRA 3.0839 TC3-4.1675 BAU 1.2703
 ROE .3161 RRA .2206 RC3 -.1307 FAU .01823
 FDE -.1760 FRA 1.0842 FC3 -.6877 BSP 18397
 BOE .4019 BRA 3.0918 BC3 4.1695 FSP -458

MID-COURSE EXECUTION ACCURACY

SGT 5656.3 SGR 490.1 SG3 135.3
 RRT .5516 RRF .5268 RTF .9378
 SGB 5677.5 R23 .0081 R13 .9378
 SG1 5662.8 SG2 408.4 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 1240.6 SR 387.7 SS 380.4
 CRT -.0189 CRS .2374 CST -.9744
 LSA 1295.1 MSA 395.5 SSA 17.8
 EL1 1240.6 EL2 387.6 ALF 179.63

LAUNCH DATE FEB 26 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 565.120

RL 148.13 LAL -0.00 LOL 157.23 VL 26.103 GAL 7.14 AZL 90.30 MCA 284.13 SMA 119.51 ECC .26815 INC .3026 V1 30.079
 RP 107.73 LAP .29 LOP 81.36 VP 36.788 GAP 14.51 AZP 90.07 TAL 159.53 TAP 83.66 RCA 87.46 APO 151.56 V2 35.177
 RC 194.480 GL -1.55 GP -12.85 ZAL 55.83 ZAP 166.95 ETS 283.57 ZAE 131.38 ETE 191.40 ZAC 177.81 ETC 144.52 CLP-177.73

PLANETOCENTRIC CONIC

C3 25.496 VHL 5.049 CLA 21.41 RAL 102.26 RAD 6568.0 VEL 12.119 PTH 2.17 VHP 9.649 DPA 10.93 RAP 84.42 ECC 1.4196
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 41 5 3012.17 -27.92 97.32 336.03 85.07 5 31 17 2412.2 -28.31 88.67
 90.00 22 51 31 4178.51 -.66 170.78 327.72 61.69 24 1 10 3578.5 -4.43 164.14
 100.00 6 17 7 2702.50 -29.71 74.68 336.18 86.56 7 2 10 2102.5 -29.87 65.88
 100.00 0 2 6 3963.41 .92 154.10 326.85 60.12 1 8 9 3363.4 -3.07 147.58
 110.00 7 56 15 2392.38 -34.18 51.27 336.32 90.39 8 36 7 1792.4 -33.75 42.05
 110.00 0 39 28 3846.30 4.71 142.86 324.49 56.10 1 43 34 3246.3 .23 136.64

DIFFERENTIAL CORRECTIONS

TDE -.4182 TRA 3.4470 TC3-3.7329 BAU 1.2730
 ROE .3231 RRA .2379 RC3 -.1133 FAU .01668
 FDE -.2149 FRA 1.1396 FC3 -.5664 BSP 18394
 BOE .5285 BRA 3.4552 BC3 3.7346 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 5664.4 SGR 481.3 SG3 131.5
 RRT .5413 RRF .5172 RTF .9405
 SGB 5684.8 R23 .0066 R13 .9405
 SG1 5670.4 SG2 404.3 THA 2.65

ORBIT DETERMINATION ACCURACY

ST 1351.4 SR 376.9 SS 402.8
 CRT -.1256 CRS .2917 CST -.9846
 LSA 1409.6 MSA 378.6 SSA 16.7
 EL1 1352.3 EL2 373.6 ALF 177.83

LAUNCH DATE FEB 26 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 570.262

RL 148.13 LAL -0.00 LOL 157.23 VL 26.061 GAL 7.96 AZL 90.51 MCA 287.36 SMA 119.27 ECC .27672 INC .5068 V1 30.079
 RP 107.70 LAP .48 LOP 84.58 VP 36.768 GAP 15.09 AZP 90.15 TAL 157.94 TAP 85.30 RCA 86.27 APO 152.28 V2 35.187
 RC 196.245 GL -2.45 GP -12.57 ZAL 53.17 ZAP 167.35 ETS 280.06 ZAE 131.42 ETE 191.16 ZAC 178.23 ETC 72.50 CLP-178.55

PLANETOCENTRIC CONIC

C3 28.501 VHL 5.339 CLA 20.26 RAL 105.03 RAD 6568.1 VEL 12.242 PTH 2.20 VHP 9.988 DPA 11.43 RAP 86.78 ECC 1.4690
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 5 52 2989.67 -28.04 95.68 340.51 85.88 5 55 41 2389.7 -28.32 87.03
 90.00 22 48 50 4256.34 1.86 175.12 331.72 61.74 23 59 46 3656.3 -1.94 168.50
 100.00 6 40 19 2685.07 -29.78 73.39 340.63 87.24 7 25 5 2085.1 -29.84 64.59
 100.00 0 0 59 4036.17 3.38 158.10 330.87 60.28 1 8 16 3436.2 -.60 151.57
 110.00 8 16 36 2383.86 -34.18 50.60 340.72 90.78 8 56 20 1783.9 -33.69 41.39
 110.00 0 41 12 3910.15 7.13 146.23 328.56 56.48 1 46 22 3310.2 2.67 139.97

DIFFERENTIAL CORRECTIONS

TDE -.5999 TRA 3.8258 TC3-3.3204 BAU 1.2657
 ROE .3307 RRA .2546 RC3 -.0973 FAU .01526
 FDE -.2542 FRA 1.1945 FC3 -.4635 BSP 18487
 BOE .6850 BRA 3.8343 BC3 3.3219 FSP -432

MID-COURSE EXECUTION ACCURACY

SGT 5669.2 SGR 470.7 SG3 127.8
 RRT .5301 RRF .5065 RTF .9437
 SGB 5688.7 R23 .0045 R13 .9437
 SG1 5674.7 SG2 398.8 THA 2.53

ORBIT DETERMINATION ACCURACY

ST 1466.2 SR 365.6 SS 425.2
 CRT -.2117 CRS .3386 CST -.9905
 LSA 1527.9 MSA 360.0 SSA 15.6
 EL1 1468.4 EL2 356.7 ALF 176.79

LAUNCH DATE FEB 26 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 575.299

RL 148.13 LAL -.00 LOL 157.23 VL 26.020 GAL 8.83 AZL 90.72 MCA 290.59 SMA 119.04 ECC .28612 INC .7183 V1 30.079
 RP 107.67 LAP .67 LOP 87.81 VP 36.748 GAP 15.72 AZP 90.25 TAL 156.38 TAP 86.97 RCA 84.98 APO 153.10 V2 35.196
 RC 197.986 GL -3.27 GP -12.31 ZAL 50.67 ZAP 167.67 ETS 276.26 ZAE 131.44 ETE 190.93 ZAC 176.47 ETC 36.51 CLP -179.39

PLANETOCENTRIC CONIC

C3 32.041 VHL 5.661 DLA 19.17 RAL 107.60 RAD 6568.3 VEL 12.386 PTH 2.24 VHP 10.358 DPA 11.86 RAP 89.15 ECC 1.5273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 28 20 2973.77 -28.11 94.52 344.92 86.46 6 17 54 2373.8 -28.31 85.86
 90.00 22 46 53 4330.98 4.25 179.30 335.71 61.98 23 59 4 3731.0 .47 172.66
 100.00 7 1 31 2673.29 -29.81 72.52 345.02 87.70 7 46 4 2073.3 -29.81 63.71
 100.00 0 0 19 4106.69 5.75 161.99 334.89 60.61 1 8 45 3506.7 1.79 155.44
 110.00 8 35 23 2379.63 -34.17 50.27 345.08 90.98 9 15 2 1779.6 -33.66 41.07
 110.00 0 42 56 3973.11 9.48 149.59 332.62 57.00 1 49 10 3373.1 5.06 143.27

DIFFERENTIAL CORRECTIONS

TDE -.7886 TRA 4.2279 TC3-2.9270 BAU 1.2543
 RDE .3393 RRA .2707 RC3 -.0823 FAU .01385
 FDE -.2919 FRA 1.2519 FC3 -.3743 BSP 18548
 BDE .8585 BRA 4.2366 BC3 2.9282 FSP -421

MID-COURSE EXECUTION ACCURACY

SGT 5669.6 SGR 459.1 SG3 124.2
 RRT .5182 RRF .4957 RTF .9470
 SGB 5688.2 R23 .0030 R13 .9470
 SG1 5674.7 SG2 392.3 THA 2.41

ORBIT DETERMINATION ACCURACY

ST 1579.4 SR 354.3 SS 447.0
 CRT -.2780 CRS .3754 CST -.9941
 LSA 1644.0 MSA 341.8 SSA 14.7
 EL1 1582.6 EL2 339.6 ALF 176.26

LAUNCH DATE FEB 26 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 580.210

RL 148.13 LAL -.00 LOL 157.23 VL 25.979 GAL 9.77 AZL 90.94 MCA 293.82 SMA 118.82 ECC .29645 INC .9392 V1 30.079
 RP 107.64 LAP .86 LOP 91.05 VP 36.727 GAP 16.40 AZP 90.38 TAL 154.86 TAP 88.68 RCA 83.59 APO 154.04 V2 35.205
 RC 199.701 GL -4.00 GP -12.07 ZAL 48.35 ZAP 167.92 ETS 272.20 ZAE 131.44 ETE 190.72 ZAC 174.29 ETC 26.07 CLP 179.76

PLANETOCENTRIC CONIC

C3 36.215 VHL 6.018 DLA 18.14 RAL 109.98 RAD 6568.4 VEL 12.553 PTH 2.27 VHP 10.762 DPA 12.23 RAP 91.51 ECC 1.5960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 48 45 2963.64 -28.15 93.78 349.26 86.82 6 38 9 2363.6 -28.30 85.12
 90.00 22 45 27 4402.89 6.54 183.35 339.70 62.39 23 58 50 3802.9 2.79 176.67
 100.00 7 20 52 2666.59 -29.83 72.02 349.35 87.96 8 5 19 2066.6 -29.79 63.22
 100.00 23 56 1 4175.17 8.02 165.81 338.90 61.11 25 5 36 3575.2 4.10 159.21
 110.00 8 52 39 2379.42 -34.17 50.26 349.39 90.99 9 32 19 1779.4 -33.66 41.05
 110.00 0 44 39 4035.11 11.76 152.94 336.66 57.67 1 51 54 3435.1 7.40 146.55

DIFFERENTIAL CORRECTIONS

TDE -.9854 TRA 4.6549 TC3-2.5569 BAU 1.2384
 RDE .3488 RRA .2859 RC3 -.0684 FAU .01248
 FDE -.3286 FRA 1.3119 FC3 -.2983 BSP 18624
 BDE 1.0453 BRA 4.6637 BC3 2.5579 FSP -411

MID-COURSE EXECUTION ACCURACY

SGT 5665.7 SGR 446.2 SG3 120.8
 RRT .5054 RRF .4843 RTF .9505
 SGB 5683.2 R23 .0021 R13 .9505
 SG1 5670.2 SG2 384.7 THA 2.29

ORBIT DETERMINATION ACCURACY

ST 1687.0 SR 343.0 SS 468.2
 CRT -.3302 CRS .4053 CST -.9962
 LSA 1754.3 MSA 324.4 SSA 13.9
 EL1 1691.0 EL2 323.0 ALF 176.01

LAUNCH DATE FEB 26 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 584.972

RL 148.13 LAL -.00 LOL 157.23 VL 25.939 GAL 10.77 AZL 91.17 MCA 297.05 SMA 118.60 ECC .30783 INC 1.1714 V1 30.079
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.707 GAP 17.15 AZP 90.53 TAL 153.39 TAP 90.44 RCA 82.09 APO 155.11 V2 35.213
 RC 201.391 GL -4.66 GP -11.85 ZAL 46.19 ZAP 168.09 ETS 267.90 ZAE 131.42 ETE 190.51 ZAC 172.04 ETC 21.48 CLP 178.89

PLANETOCENTRIC CONIC

C3 41.139 VHL 6.414 DLA 17.16 RAL 112.18 RAD 6568.6 VEL 12.748 PTH 2.32 VHP 11.206 DPA 12.54 RAP 93.87 ECC 1.6770
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 7 19 2958.60 -28.17 93.42 353.53 87.01 6 56 38 2358.6 -28.29 84.75
 90.00 22 44 24 4472.34 8.71 187.29 343.68 62.95 23 58 56 3872.3 5.02 180.56
 100.00 7 38 32 2664.44 -29.83 71.86 353.61 88.04 8 22 57 2064.4 -29.79 63.06
 100.00 23 55 52 4241.72 10.19 169.56 342.90 61.74 25 6 34 3641.7 6.33 162.89
 110.00 9 8 31 2382.90 -34.17 50.53 353.66 90.83 9 48 14 1782.9 -33.68 41.32
 110.00 0 46 18 4096.03 13.95 156.30 340.69 58.47 1 54 34 3496.0 9.68 149.80

DIFFERENTIAL CORRECTIONS

TDE -1.1862 TRA 5.1125 TC3-2.2079 BAU 1.2147
 RDE .3595 RRA .3000 RC3 -.0555 FAU .01106
 FDE -.3634 FRA 1.3762 FC3 -.2327 BSP 18551
 BDE 1.2394 BRA 5.1213 BC3 2.2086 FSP -397

MID-COURSE EXECUTION ACCURACY

SGT 5656.1 SGR 432.3 SG3 117.5
 RRT .4917 RRF .4727 RTF .9540
 SGB 5672.6 R23 .0018 R13 .9540
 SG1 5660.1 SG2 376.1 THA 2.16

ORBIT DETERMINATION ACCURACY

ST 1785.0 SR 332.0 SS 488.4
 CRT -.3703 CRS .4284 CST -.9976
 LSA 1854.6 MSA 308.6 SSA 13.2
 EL1 1789.4 EL2 307.6 ALF 175.94

LAUNCH DATE FEB 26 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 589.555

RL 148.13 LAL -.00 LOL 157.23 VL 25.900 GAL 11.85 AZL 91.42 MCA 300.28 SMA 118.38 ECC .32041 INC 1.4177 V1 30.079
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.687 GAP 17.97 AZP 90.72 TAL 151.98 TAP 92.26 RCA 80.45 APO 156.32 V2 35.221
 RC 203.056 GL -5.25 GP -11.65 ZAL 44.20 ZAP 168.18 ETS 263.38 ZAE 131.36 ETE 190.30 ZAC 169.79 ETC 18.95 CLP 177.99

PLANETOCENTRIC CONIC

C3 46.961 VHL 6.853 DLA 16.26 RAL 114.20 RAD 6568.8 VEL 12.974 PTH 2.37 VHP 11.696 DPA 12.79 RAP 96.21 ECC 1.7729
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 11 2958.09 -28.17 93.38 357.71 87.03 7 13 29 2358.1 -28.29 84.72
 90.00 22 43 38 4539.47 10.77 191.16 347.63 63.65 23 59 18 3939.5 7.14 184.35
 100.00 7 54 38 2666.41 -29.83 72.01 357.80 87.97 8 39 5 2066.4 -29.79 63.20
 100.00 23 55 53 4306.38 12.24 173.25 346.87 62.52 25 7 39 3706.4 8.47 166.50
 110.00 9 23 3 2389.78 -34.18 51.07 357.87 90.51 10 2 53 1789.8 -33.73 41.85
 110.00 0 47 53 4155.77 16.05 159.65 344.69 59.41 1 57 9 3555.8 11.87 153.04

DIFFERENTIAL CORRECTIONS

TDE -1.4018 TRA 5.5973 TC3-1.8907 BAU 1.1873
 RDE .3709 RRA .3122 RC3 -.0442 FAU .00972
 FDE -.3993 FRA 1.4430 FC3 -.1791 BSP 18587
 BDE 1.4500 BRA 5.6060 BC3 1.8912 FSP -387

MID-COURSE EXECUTION ACCURACY

SGT 5643.7 SGR 416.9 SG3 114.3
 RRT .4756 RRF .4588 RTF .9579
 SGB 5659.1 R23 .0014 R13 .9579
 SG1 5647.2 SG2 366.5 THA 2.02

ORBIT DETERMINATION ACCURACY

ST 1875.7 SR 320.7 SS 508.9
 CRT -.4057 CRS .4505 CST -.9984
 LSA 1947.9 MSA 293.0 SSA 12.5
 EL1 1880.3 EL2 292.4 ALF 175.93

LAUNCH DATE FEB 26 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 593.920

RL 148.13 LAL -0.00 LOL 157.23 VL 25.862 GAL 13.03 AZL 91.68 MCA 303.52 SMA 118.18 ECC .33435 INC 1.6807 V1 30.079
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.667 GAP 18.87 AZP 90.93 TAL 150.64 TAP 94.15 RCA 78.66 APO 157.69 V2 35.228
 RC 204.697 GL -5.78 GP -11.47 ZAL 42.37 ZAP 168.17 ETS 258.69 ZAE 131.26 ETE 190.10 ZAC 167.56 ETC 17.35 CLP 177.05

PLANETOCENTRIC CONIC

C3 53.868 VHL 7.339 DLA 15.42 RAL 116.05 RAD 6568.9 VEL 13.237 PTH 2.42 VHP 12.238 OPA 12.98 RAP 98.53 ECC 1.8865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 39 29 2961.59 -28.16 93.63 1.82 86.90 7 28 51 2361.6 -28.29 84.97
 90.00 22 43 5 4604.32 12.70 194.94 351.55 64.48 23 59 49 4004.3 9.16 188.05
 100.00 8 9 16 2672.04 -29.82 72.42 1.91 87.75 8 53 48 2072.0 -29.81 63.62
 100.00 23 55 59 4369.09 14.19 176.90 350.80 63.41 25 8 48 3769.1 10.50 170.04
 110.00 9 36 18 2399.72 -34.18 51.84 2.01 90.05 10 16 18 1799.7 -33.80 42.62
 110.00 0 49 22 4214.18 18.04 163.01 348.66 60.46 1 59 37 3614.2 13.97 156.26

DIFFERENTIAL CORRECTIONS

TOE-1.6275 TRA 6.1162 TC3-1.5994 BAU 1.1521
 ROE .3836 RRA .3223 RC3 -.0342 FAU .00836
 FOE -.4351 FRA 1.5147 FC3 -.1344 BSP 18610
 BOE 1.6721 BRA 6.1247 BC3 1.5997 FSP -377

MID-COURSE EXECUTION ACCURACY

SGT 5626.4 SGR 400.4 SG3 111.3
 RRT .4572 RRF .4428 RTF .9618
 SGB 5620.7 R23 .0014 R13 .9618
 SG1 5629.4 SG2 355.9 THA 1.87

ORBIT DETERMINATION ACCURACY

ST 1956.3 SR 309.5 SS 529.5
 CRT -.4360 CRS .4702 CST -.9990
 LSA 2031.1 MSA 278.2 SSA 11.9
 EL1 1961.0 EL2 277.9 ALF 175.97

LAUNCH DATE FEB 26 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 598.022

RL 148.13 LAL -0.00 LOL 157.23 VL 25.825 GAL 14.31 AZL 91.96 MCA 306.75 SMA 117.98 ECC .34985 INC 1.9643 V1 30.079
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.647 GAP 19.87 AZP 91.18 TAL 149.37 TAP 96.12 RCA 76.70 APO 159.25 V2 35.235
 RC 206.313 GL -6.25 GP -11.29 ZAL 40.70 ZAP 168.05 ETS 253.89 ZAE 131.13 ETE 189.90 ZAC 165.35 ETC 16.26 CLP 176.08

PLANETOCENTRIC CONIC

C3 62.094 VHL 7.880 DLA 14.64 RAL 117.73 RAD 6569.2 VEL 13.544 PTH 2.48 VHP 12.840 OPA 13.13 RAP 100.82 ECC 2.0219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 53 18 2968.63 -28.13 94.15 5.82 86.64 7 42 46 2368.6 -28.30 85.49
 90.00 22 42 41 4666.85 14.50 198.65 355.41 65.41 24 0 27 4066.9 11.06 191.65
 100.00 8 22 30 2680.94 -29.79 73.09 5.92 87.40 9 7 11 2080.9 -29.83 64.28
 100.00 0 0 5 4429.77 16.00 180.49 354.68 64.41 1 13 55 3829.8 12.43 173.52
 110.00 9 48 20 2412.40 -34.18 52.83 6.06 89.46 10 28 32 1812.4 -33.88 43.60
 110.00 0 50 45 4271.08 19.92 166.36 352.59 61.63 2 1 56 3671.1 15.97 159.46

DIFFERENTIAL CORRECTIONS

TOE-1.8652 TRA 6.6743 TC3-1.3339 BAU 1.1076
 ROE .3975 RRA .3297 RC3 -.0254 FAU .00698
 FOE -.4712 FRA 1.5921 FC3 -.0973 BSP 18616
 BOE 1.9071 BRA 6.6824 BC3 1.3342 FSP -368

MID-COURSE EXECUTION ACCURACY

SGT 5605.0 SGR 382.8 SG3 108.3
 RRT .4358 RRF .4241 RTF .9658
 SGB 5618.1 R23 .0018 R13 .9658
 SG1 5607.5 SG2 344.4 THA 1.71

ORBIT DETERMINATION ACCURACY

ST 2026.7 SR 298.4 SS 550.5
 CRT -.4630 CRS .4884 CST -.9994
 LSA 2104.7 MSA 264.1 SSA 11.3
 EL1 2031.5 EL2 263.9 ALF 176.03

LAUNCH DATE FEB 26 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 601.800

RL 148.13 LAL -0.00 LOL 157.23 VL 25.790 GAL 15.70 AZL 92.27 MCA 309.99 SMA 117.78 ECC .36713 INC 2.2731 V1 30.079
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.628 GAP 20.98 AZP 91.46 TAL 148.20 TAP 98.19 RCA 74.54 APO 161.03 V2 35.240
 RC 207.904 GL -6.67 GP -11.13 ZAL 39.19 ZAP 167.83 ETS 249.01 ZAE 130.94 ETE 189.69 ZAC 163.18 ETC 15.48 CLP 175.07

PLANETOCENTRIC CONIC

C3 71.942 VHL 8.482 DLA 13.93 RAL 119.24 RAD 6569.4 VEL 13.903 PTH 2.54 VHP 13.513 OPA 13.23 RAP 103.07 ECC 2.1840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 5 42 2978.79 -28.09 94.89 9.72 86.27 7 55 21 2378.8 -28.31 86.23
 90.00 22 42 22 4726.96 16.17 202.27 359.21 66.43 24 1 9 4127.0 12.85 195.17
 100.00 8 34 24 2692.71 -29.75 73.96 9.83 86.94 9 19 17 2092.7 -29.86 65.15
 100.00 0 0 16 4488.27 17.69 184.01 358.50 65.50 1 15 5 3888.3 14.24 176.92
 110.00 9 59 10 2427.49 -34.16 54.01 10.02 88.77 10 39 37 1827.5 -33.96 44.77
 110.00 0 52 0 4326.26 21.67 169.68 356.46 62.89 2 4 6 3726.3 17.86 162.62

DIFFERENTIAL CORRECTIONS

TOE-2.1121 TRA 7.2801 TC3-1.0911 BAU 1.0495
 ROE .4130 RRA .3337 RC3 -.0179 FAU .00549
 FOE -.5071 FRA 1.6774 FC3 -.0660 BSP 18502
 BOE 2.1521 BRA 7.2878 BC3 1.0912 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 5579.7 SGR 364.3 SG3 105.6
 RRT .4108 RRF .4021 RTF .9698
 SGB 5591.6 R23 .0025 R13 .9698
 SG1 5581.7 SG2 332.0 THA 1.54

ORBIT DETERMINATION ACCURACY

ST 2085.5 SR 287.6 SS 572.0
 CRT -.4870 CRS .5051 CST -.9996
 LSA 2167.0 MSA 250.7 SSA 10.7
 EL1 2090.2 EL2 250.6 ALF 176.10

LAUNCH DATE FEB 26 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 605.176

RL 148.13 LAL -0.00 LOL 157.23 VL 25.755 GAL 17.25 AZL 92.61 MCA 313.22 SMA 117.60 ECC .38648 INC 2.6126 V1 30.079
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.608 GAP 22.22 AZP 91.79 TAL 147.15 TAP 100.37 RCA 72.15 APO 163.05 V2 35.246
 RC 209.470 GL -7.04 GP -10.98 ZAL 37.85 ZAP 167.50 ETS 244.12 ZAE 130.69 ETE 189.48 ZAC 161.07 ETC 14.90 CLP 173.99

PLANETOCENTRIC CONIC

C3 83.800 VHL 9.154 DLA 13.28 RAL 120.59 RAD 6569.6 VEL 14.323 PTH 2.61 VHP 14.269 OPA 13.28 RAP 105.27 ECC 2.3791
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 44 2991.67 -28.03 95.82 13.47 85.81 8 6 35 2391.7 -28.32 87.17
 90.00 22 42 6 4784.46 17.70 205.79 2.91 67.53 24 1 50 4184.5 14.50 198.58
 100.00 8 45 0 2706.98 -29.69 75.01 13.60 86.39 9 30 7 2107.0 -29.88 66.21
 100.00 0 0 26 4544.38 19.24 187.46 2.22 66.67 1 16 11 3944.4 15.92 180.24
 110.00 10 8 50 2444.67 -34.13 55.35 13.86 87.97 10 49 35 1844.7 -34.03 46.11
 110.00 0 53 6 4379.46 23.28 172.97 .24 64.23 2 6 5 3779.5 19.62 165.74

DIFFERENTIAL CORRECTIONS

TOE-2.3793 TRA 7.9306 TC3 -.8751 BAU .9805
 ROE .4300 RRA .3333 RC3 -.0118 FAU .00396
 FOE -.5458 FRA 1.7694 FC3 -.0409 BSP 18501
 BOE 2.4178 BRA 7.9376 BC3 .8752 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 5549.4 SGR 344.7 SG3 102.9
 RRT .3799 RRF .3742 RTF .9737
 SGB 5560.1 R23 .0033 R13 .9737
 SG1 5551.0 SG2 318.8 THA 1.36

ORBIT DETERMINATION ACCURACY

ST 2135.6 SR 276.7 SS 595.4
 CRT -.5117 CRS .5237 CST -.9997
 LSA 2221.6 MSA 237.3 SSA 10.1
 EL1 2140.4 EL2 237.2 ALF 176.16

LAUNCH DATE FEB 26 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 608.050

RL 148.13 LAL -0.00 LOL 157.23 VL 25.723 GAL 18.95 AZL 92.99 MCA 316.46 SMA 117.43 ECC .40821 INC 2.9904 V1 30.079
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.590 GAP 23.63 AZP 92.17 TAL 146.24 TAP 102.70 RCA 69.49 APO 165.36 V2 35.250
 RC 211.012 GL -7.36 GP -10.84 ZAL 36.68 ZAP 167.04 ETS 239.27 ZAE 130.36 ETE 189.25 ZAC 159.02 ETC 14.46 CLP 172.85

PLANETOCENTRIC CONIC

C3 98.178 VHL 9.908 DLA 12.71 RAL 121.77 RAD 6569.9 VEL 14.816 PTH 2.68 VHP 15.122 OPA 13.29 RAP 107.39 ECC 2.6158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 26 24 3006.90 -27.95 96.93 17.07 85.26 8 16 31 2406.9 -28.31 88.29
 90.00 22 41 50 4839.11 19.09 209.20 6.48 68.68 24 2 30 4239.1 16.03 201.87
 100.00 8 54 18 2723.41 -29.62 76.23 17.22 85.75 9 39 41 2123.4 -29.89 67.44
 100.00 0 0 33 4597.83 20.64 190.81 5.82 67.89 1 17 11 3997.8 17.46 183.46
 110.00 10 17 19 2463.62 -34.07 56.83 17.54 87.10 10 58 23 1863.6 -34.10 47.59
 110.00 0 54 1 4430.38 24.75 176.19 3.91 65.63 2 7 52 3830.4 21.25 168.79

DIFFERENTIAL CORRECTIONS

TOE-2.6636 TRA 8.6383 TC3 -.6812 BAU .8942
 RDE .4491 RRA .3274 RC3 -.0068 FAU .00229
 FDE -.5863 FRA 1.8712 FC3 -.0202 BSP 18475
 BOE 2.7012 BRA 8.6445 BC3 .6813 FSP -339

MID-COURSE EXECUTION ACCURACY

SGT 5515.0 SGR 324.5 SG3 100.3
 RRT .3421 RRF .3393 RTF .9774
 SGB 5524.5 R23 .0042 R13 .9774
 SG1 5516.1 SG2 304.9 THA 1.16

ORBIT DETERMINATION ACCURACY

ST 2175.7 SR 266.2 SS 620.7
 CRT -.5363 CRS .5431 CST -.9998
 LSA 2267.0 MSA 224.2 SSA 9.5
 EL1 2180.4 EL2 224.2 ALF 176.21

LAUNCH DATE FEB 26 1969

FLIGHT TIME 216.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 610.291

RL 148.13 LAL -0.00 LOL 157.23 VL 25.692 GAL 20.85 AZL 93.42 MCA 319.69 SMA 117.26 ECC .43273 INC 3.4160 V1 30.079
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.572 GAP 25.22 AZP 92.61 TAL 145.50 TAP 105.19 RCA 66.52 APO 168.00 V2 35.254
 RC 212.528 GL -7.64 GP -10.71 ZAL 35.68 ZAP 166.43 ETS 234.51 ZAE 129.95 ETE 189.02 ZAC 157.05 ETC 14.14 CLP 171.62

PLANETOCENTRIC CONIC

C3 115.747 VHL 10.759 DLA 12.21 RAL 122.78 RAD 6570.2 VEL 15.398 PTH 2.75 VHP 16.091 OPA 13.28 RAP 109.43 ECC 2.9049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 34 41 3024.18 -27.85 98.19 20.47 84.64 8 25 5 2424.2 -28.30 89.55
 90.00 22 41 33 4890.59 20.33 212.47 9.89 69.86 24 3 4 4290.6 17.41 205.02
 100.00 9 2 16 2741.71 -29.52 77.58 20.64 85.05 9 47 58 2141.7 -29.89 68.80
 100.00 0 0 35 4648.28 21.90 194.03 9.26 69.13 1 18 4 4048.3 18.87 186.54
 110.00 10 24 36 2484.07 -33.99 58.42 21.05 86.16 11 6 0 1884.1 -34.15 49.18
 110.00 0 54 45 4478.69 26.07 179.33 7.43 67.06 2 9 23 3878.7 22.73 171.76

DIFFERENTIAL CORRECTIONS

TOE-2.9667 TRA 9.4108 TC3 -.5081 BAU .7863
 RDE .4708 RRA .3148 RC3 -.0031 FAU .00041
 FDE -.6293 FRA 1.9847 FC3 -.0031 BSP 18428
 BOE 3.0039 BRA 9.4161 BC3 .5081 FSP -331

MID-COURSE EXECUTION ACCURACY

SGT 5475.9 SGR 303.9 SG3 97.8
 RRT .2949 RRF .2951 RTF .9810
 SGB 5484.3 R23 .0052 R13 .9810
 SG1 5476.6 SG2 290.3 THA .94

ORBIT DETERMINATION ACCURACY

ST 2205.4 SR 255.9 SS 648.5
 CRT -.5615 CRS .5640 CST -.9999
 LSA 2303.3 MSA 211.3 SSA 9.0
 EL1 2210.1 EL2 211.3 ALF 176.24

LAUNCH DATE FEB 26 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 611.725

RL 148.13 LAL -0.00 LOL 157.23 VL 25.663 GAL 22.99 AZL 93.90 MCA 322.92 SMA 117.11 ECC .46047 INC 3.9024 V1 30.079
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.554 GAP 27.04 AZP 93.12 TAL 144.97 TAP 107.89 RCA 63.18 APO 171.03 V2 35.256
 RC 214.018 GL -7.88 GP -10.58 ZAL 34.87 ZAP 165.68 ETS 229.85 ZAE 129.44 ETE 188.76 ZAC 155.17 ETC 13.89 CLP 170.29

PLANETOCENTRIC CONIC

C3 137.400 VHL 11.722 DLA 11.78 RAL 123.59 RAD 6570.5 VEL 16.085 PTH 2.83 VHP 17.197 OPA 13.24 RAP 111.37 ECC 3.2613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 33 3043.23 -27.72 99.56 23.65 83.96 8 32 16 2443.2 -28.26 90.94
 90.00 22 41 12 4938.50 21.42 215.56 13.09 71.03 24 3 31 4338.5 18.64 207.99
 100.00 9 8 52 2761.61 -29.39 79.05 23.84 84.29 9 54 53 2161.6 -29.87 70.28
 100.00 0 0 30 4695.36 23.01 197.08 12.49 70.38 1 18 45 4095.4 20.13 189.47
 110.00 10 30 37 2505.77 -33.88 60.11 24.33 85.17 11 12 23 1905.8 -34.18 50.87
 110.00 0 55 13 4523.96 27.23 182.33 10.74 68.50 2 10 37 3924.0 24.07 174.59

DIFFERENTIAL CORRECTIONS

TOE-3.2864 TRA10.2621 TC3 -.3531 BAU .6486
 RDE .4957 RRA .2938 RC3 -.0004 FAU-.00182
 FDE -.6745 FRA 2.1131 FC3 .0114 BSP 18241
 BOE 3.3235 BRA10.2663 BC3 .3531 FSP -321

MID-COURSE EXECUTION ACCURACY

SGT 5433.3 SGR 283.2 SG3 95.5
 RRT .2360 RRF .2391 RTF .9843
 SGB 5440.6 R23 .0063 R13 .9843
 SG1 5433.7 SG2 275.2 THA .71

ORBIT DETERMINATION ACCURACY

ST 2223.5 SR 246.2 SS 679.1
 CRT -.5873 CRS .5860 CST -.9999
 LSA 2329.4 MSA 198.9 SSA 8.4
 EL1 2228.2 EL2 198.9 ALF 176.25

LAUNCH DATE FEB 26 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 612.121

RL 148.13 LAL -0.00 LOL 157.23 VL 25.637 GAL 25.41 AZL 94.47 MCA 326.16 SMA 116.97 ECC .49197 INC 4.4675 V1 30.079
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.538 GAP 29.13 AZP 93.71 TAL 144.69 TAP 110.85 RCA 59.43 APO 174.52 V2 35.259
 RC 215.482 GL -8.09 GP -10.45 ZAL 34.27 ZAP 164.75 ETS 225.35 ZAE 128.79 ETE 188.48 ZAC 153.43 ETC 13.72 CLP 168.83

PLANETOCENTRIC CONIC

C3 164.342 VHL 12.820 DLA 11.43 RAL 124.20 RAD 6570.8 VEL 16.902 PTH 2.91 VHP 18.470 OPA 13.18 RAP 113.18 ECC 3.7047
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 46 52 3063.85 -27.56 101.05 26.56 83.23 8 37 56 2463.9 -28.21 92.45
 90.00 22 40 44 4982.39 22.37 218.43 16.03 72.17 24 3 46 4382.4 19.72 210.76
 100.00 9 13 59 2782.91 -29.24 80.61 26.78 83.48 10 0 22 2182.9 -29.83 71.86
 100.00 0 0 14 4738.57 23.97 199.93 15.46 71.59 1 19 13 4138.6 21.23 192.21
 110.00 10 35 17 2528.50 -33.74 61.87 27.35 84.14 11 17 25 1928.5 -34.18 52.65
 110.00 0 55 25 4565.74 28.25 185.16 13.80 69.89 2 11 31 3965.7 25.25 177.27

DIFFERENTIAL CORRECTIONS

TOE-3.6359 TRA11.1896 TC3 -.2183 BAU .4797
 RDE .5244 RRA .2618 RC3 -.0012 FAU-.00440
 FDE -.7251 FRA 2.2563 FC3 .0232 BSP 18195
 BOE 3.6735 BRA11.1927 BC3 .2183 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 5384.0 SGR 263.1 SG3 93.3
 RRT .1599 RRF .1655 RTF .9874
 SGB 5390.4 R23 .0074 R13 .9874
 SG1 5384.1 SG2 259.7 THA .45

ORBIT DETERMINATION ACCURACY

ST 2232.5 SR 237.1 SS 714.2
 CRT -.6160 CRS .6116 CST -.9999
 LSA 2348.5 MSA 186.5 SSA 7.8
 EL1 2237.3 EL2 186.4 ALF 176.23

LAUNCH DATE FEB 27 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 8 1969

HELIOCENTRIC CONIC

DISTANCE 193.846

RL 148.17 LAL -.00 LOL 158.23 VL 27.949 GAL -10.61 AZL 89.36 HCA 87.39 SMA 131.36 ECC .22289 INC .6357 V1 30.072
 RP 108.51 LAP .64 LOP 245.62 VP 37.892 GAP -8.13 AZP 89.97 TAL 225.06 TAP 312.46 RCA 102.08 APO 160.65 V2 34.923
 RC 59.010 GL 2.85 GP 19.77 ZAL 154.78 ZAP 30.98 ETS 326.13 ZAE 147.37 ETE 27.50 ZAC 124.86 ETC 148.26 CLP -24.34

PLANETOCENTRIC CONIC

C3 37.722 VHL 6.142 OLA 3.92 RAL 1.89 RAD 6568.5 VEL 12.613 PTH 2.29 VHP 6.506 OPA 31.70 RAP 31.43 ECC 1.6208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 33 48 2493.31 -25.21 59.94 235.48 103.34 1 15 21 1893.3 -23.13 51.89
 90.00 13 30 8 4893.82 20.41 212.68 232.87 69.93 14 51 42 4293.8 17.49 205.22
 100.00 1 56 59 2225.02 -26.49 39.86 235.13 104.39 2 34 4 1625.0 -24.25 31.77
 100.00 14 49 39 4637.35 21.64 193.32 232.37 68.86 16 6 56 4037.3 18.57 185.87
 110.00 3 9 26 1998.24 -29.92 21.53 234.02 107.36 3 42 44 1398.2 -27.25 13.36
 110.00 15 53 41 4436.88 24.93 176.61 230.87 65.82 17 7 38 3836.9 21.45 169.19

DIFFERENTIAL CORRECTIONS

TDE -.1567 TRA -.3033 TC3 .3560 BAU .2122
 RDE -.3311 RRA .2895 RC3 .2244 FAU .05722
 FDE -.4181 FRA -.6186 FC3-1.3133 BSP 1549
 BDE .3663 BRA .4193 BC3 .4209 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 541.4 SGR 494.7 SG3 151.9
 RRT .3320 RRF -.5530 RTF -.5091
 SGB 733.3 R23 -.1189 R13 -.6410
 SG1 600.9 SG2 420.4 THA 37.39

ORBIT DETERMINATION ACCURACY

ST 169.6 SR 319.5 SS 241.5
 CRT .7074 CRS -.7721 CST -.9761
 LSA 406.7 MSA 151.7 SSA 27.6
 EL1 344.2 EL2 111.3 ALF 66.86

LAUNCH DATE FEB 27 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 200.571

RL 148.17 LAL -.00 LOL 158.23 VL 28.052 GAL -10.52 AZL 89.55 HCA 90.57 SMA 132.11 ECC .21815 INC .4490 V1 30.072
 RP 108.55 LAP .45 LOP 248.80 VP 37.957 GAP -7.33 AZP 90.00 TAL 226.28 TAP 316.86 RCA 103.29 APO 160.94 V2 34.911
 RC 60.978 GL 2.04 GP 21.10 ZAL 155.70 ZAP 34.42 ETS 328.65 ZAE 147.39 ETE 30.94 ZAC 123.85 ETC 147.76 CLP -27.85

PLANETOCENTRIC CONIC

C3 36.856 VHL 6.071 OLA 2.85 RAL 1.44 RAD 6568.4 VEL 12.579 PTH 2.28 VHP 6.128 OPA 32.80 RAP 30.47 ECC 1.6066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 1 2454.02 -24.57 57.24 234.18 104.54 1 20 55 1854.0 -22.33 49.28
 90.00 13 20 19 4921.38 21.04 214.45 232.29 70.60 14 42 21 4321.4 18.20 206.93
 100.00 2 2 41 2187.36 -25.82 37.26 233.80 105.61 2 39 9 1587.4 -23.43 29.27
 100.00 14 40 20 4663.27 22.26 194.99 231.82 69.52 15 58 3 4063.3 19.28 187.47
 110.00 3 13 59 1964.22 -29.20 19.14 232.63 108.61 3 46 43 1364.2 -26.39 11.09
 110.00 15 45 32 4459.18 25.54 178.05 230.37 66.47 16 59 51 3859.2 22.14 170.55

DIFFERENTIAL CORRECTIONS

TDE -.1492 TRA -.3045 TC3 .3549 BAU .2174
 RDE -.3115 RRA .3053 RC3 .2623 FAU .06294
 FDE -.5049 FRA -.7009 FC3-1.4785 BSP 1594
 BDE .3454 BRA .4312 BC3 .4413 FSP -463

MID-COURSE EXECUTION ACCURACY

SGT 536.9 SGR 520.6 SG3 170.4
 RRT .3420 RRF -.6065 RTF -.4873
 SGB 747.9 R23 -.1320 R13 -.6626
 SG1 612.9 SG2 428.6 THA 42.42

ORBIT DETERMINATION ACCURACY

ST 165.7 SR 306.6 SS 274.9
 CRT .6703 CRS -.7689 CST -.9716
 LSA 413.7 MSA 158.3 SSA 27.8
 EL1 329.1 EL2 114.5 ALF 67.18

LAUNCH DATE FEB 27 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 207.265

RL 148.17 LAL -.00 LOL 158.23 VL 28.139 GAL -10.44 AZL 89.74 HCA 93.75 SMA 132.76 ECC .21408 INC .2620 V1 30.072
 RP 108.58 LAP .26 LOP 251.98 VP 38.011 GAP -6.57 AZP 90.02 TAL 227.36 TAP 321.11 RCA 104.34 APO 161.19 V2 34.900
 RC 63.000 GL 1.21 GP 22.54 ZAL 156.47 ZAP 38.09 ETS 330.96 ZAE 147.49 ETE 34.86 ZAC 122.62 ETC 147.37 CLP -31.56

PLANETOCENTRIC CONIC

C3 36.111 VHL 6.009 OLA 1.80 RAL 1.11 RAD 6568.4 VEL 12.549 PTH 2.27 VHP 5.786 OPA 33.90 RAP 29.23 ECC 1.5943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 31 2416.17 -23.89 54.67 233.08 105.66 1 26 47 1816.2 -21.52 46.81
 90.00 13 11 10 4948.90 21.65 216.24 231.90 71.29 14 33 39 4348.9 18.90 208.65
 100.00 2 8 42 2151.10 -25.13 34.78 232.68 106.74 2 44 33 1551.1 -22.60 26.90
 100.00 14 31 40 4689.21 22.87 196.68 231.44 70.21 15 49 49 4089.2 19.97 189.09
 110.00 3 18 51 1931.49 -28.47 16.88 231.45 109.77 3 51 3 1331.5 -25.51 8.95
 110.00 15 38 0 4481.58 26.15 179.52 230.03 67.15 16 52 41 3881.6 22.82 171.94

DIFFERENTIAL CORRECTIONS

TDE -.1428 TRA -.3091 TC3 .3475 BAU .2231
 RDE -.2888 RRA .3227 RC3 .3047 FAU .06913
 FDE -.6039 FRA -.7881 FC3-1.6573 BSP 1666
 BDE .3222 BRA .4468 BC3 .4621 FSP -529

MID-COURSE EXECUTION ACCURACY

SGT 529.0 SGR 552.0 SG3 190.6
 RRT .3412 RRF -.6590 RTF -.4557
 SGB 764.5 R23 -.1373 R13 -.6897
 SG1 626.6 SG2 438.0 THA 48.54

ORBIT DETERMINATION ACCURACY

ST 162.9 SR 290.6 SS 310.6
 CRT .6224 CRS -.7591 CST -.9647
 LSA 424.0 MSA 164.1 SSA 27.8
 EL1 311.2 EL2 119.1 ALF 67.26

LAUNCH DATE FEB 27 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 213.927

RL 148.17 LAL -.00 LOL 158.23 VL 28.213 GAL -10.36 AZL 89.93 HCA 96.93 SMA 133.32 ECC .21058 INC .0720 V1 30.072
 RP 108.62 LAP .07 LOP 255.16 VP 38.055 GAP -5.85 AZP 90.01 TAL 228.29 TAP 325.22 RCA 105.24 APO 161.39 V2 34.889
 RC 65.076 GL .35 GP 24.08 ZAL 157.11 ZAP 41.97 ETS 333.14 ZAE 147.62 ETE 39.31 ZAC 121.18 ETC 147.14 CLP -35.47

PLANETOCENTRIC CONIC

C3 35.459 VHL 5.955 OLA .76 RAL .89 RAD 6568.4 VEL 12.523 PTH 2.27 VHP 5.479 OPA 35.01 RAP 27.70 ECC 1.5836
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 19 2379.53 -23.20 52.21 232.17 106.71 1 32 58 1779.5 -20.69 44.44
 90.00 13 2 38 4976.35 22.24 218.03 231.67 72.01 14 25 34 4376.3 19.57 210.38
 100.00 2 15 1 2116.01 -24.43 32.41 231.75 107.79 2 50 17 1516.0 -21.76 24.63
 100.00 14 23 37 4715.10 23.46 198.38 231.23 70.92 15 42 13 4115.1 20.64 190.72
 110.00 3 24 4 1899.85 -27.72 14.72 230.47 110.85 3 55 44 1299.9 -24.64 6.91
 110.00 15 31 3 4504.02 26.73 181.00 229.87 67.85 16 46 7 3904.0 23.49 173.34

DIFFERENTIAL CORRECTIONS

TDE -.1405 TRA -.3203 TC3 .3300 BAU .2284
 RDE -.2633 RRA .3407 RC3 .3511 FAU .07553
 FDE -.7115 FRA -.8742 FC3-1.8440 BSP 1716
 BDE .2985 BRA .4677 BC3 .4818 FSP -596

MID-COURSE EXECUTION ACCURACY

SGT 517.4 SGR 588.7 SG3 211.6
 RRT .3201 RRF -.7079 RTF -.4033
 SGB 783.7 R23 -.1334 R13 -.7198
 SG1 642.1 SG2 449.4 THA 56.00

ORBIT DETERMINATION ACCURACY

ST 164.2 SR 272.1 SS 346.8
 CRT .5664 CRS -.7415 CST -.9569
 LSA 438.2 MSA 168.7 SSA 27.7
 EL1 291.6 EL2 126.3 ALF 66.46

LAUNCH DATE FEB 27 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 220.556

RL 148.17 LAL -0.00 LOL 158.23 VL 28.274 GAL -10.29 AZL 90.12 MCA 100.10 SMA 133.78 ECC .20755 INC .1156 V1 30.072
 RP 108.65 LAP -0.11 LOP 258.33 VP 38.090 GAP -5.16 AZP 89.98 TAL 229.07 TAP 329.17 RCA 106.01 APO 161.55 V2 34.878
 RC 67.198 GL -0.55 GP 25.71 ZAL 157.60 ZAP 46.04 ETS 335.28 ZAE 147.73 ETE 44.32 ZAC 119.52 ETC 147.06 CLP -39.62

PLANETOCENTRIC CONIC

C3 34.883 VHL 5.906 OLA -0.26 RAL .79 RAD 6568.4 VEL 12.500 PTH 2.26 VHP 5.207 DPA 36.10 RAP 25.86 ECC 1.5741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 27 2343.84 -22.48 49.84 231.44 107.69 1 39 31 1743.8 -19.85 42.15
 90.00 12 54 41 5003.76 22.81 219.85 231.60 72.75 14 18 5 4403.8 20.23 212.12
 100.00 2 21 40 2081.84 -23.70 30.14 231.00 108.78 2 56 22 1481.8 -20.91 22.45
 100.00 14 16 9 4740.99 24.02 200.10 231.18 71.66 15 35 10 4141.0 21.29 192.36
 110.00 3 29 39 1869.08 -26.96 12.65 229.67 111.86 4 0 48 1269.1 -23.75 4.96
 110.00 15 24 40 4526.52 27.30 182.50 229.86 68.58 16 40 6 3926.5 24.14 174.76

DIFFERENTIAL CORRECTIONS

TDE -.1418 TRA -.3372 TC3 .3030 BAU .2347
 RDE -.2344 RRA .3595 RC3 .4019 FAU .08210
 FDE -.8288 FRA -.9585 FC3-2.0377 BSP 1784
 BOE .2739 BRA .4929 BC3 .5033 FSP -667

MID-COURSE EXECUTION ACCURACY

SGT 504.0 SGR 631.4 SG3 233.5
 RRT .2738 RRF -.7525 RTF -.3281
 SGB 807.9 R23 -.1132 R13 -.7547
 SG1 663.0 SG2 461.7 THA 64.85

ORBIT DETERMINATION ACCURACY

ST 169.3 SR 250.7 SS 384.2
 CRT .4985 CRS -.7127 CST -.9487
 LSA 457.0 MSA 171.7 SSA 27.6
 EL1 270.1 EL2 136.2 ALF 64.46

LAUNCH DATE FEB 27 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 227.150

RL 148.17 LAL -0.00 LOL 158.23 VL 28.323 GAL -10.21 AZL 90.31 MCA 103.27 SMA 134.16 ECC .20493 INC .3104 V1 30.072
 RP 108.68 LAP -0.30 LOP 261.50 VP 38.118 GAP -4.50 AZP 89.93 TAL 229.69 TAP 332.97 RCA 106.67 APO 161.65 V2 34.867
 RC 69.360 GL -1.48 GP 27.42 ZAL 157.96 ZAP 50.31 ETS 337.42 ZAE 147.75 ETE 49.89 ZAC 117.65 ETC 147.17 CLP -43.99

PLANETOCENTRIC CONIC

C3 34.367 VHL 5.862 OLA -1.27 RAL .79 RAD 6568.4 VEL 12.479 PTH 2.26 VHP 4.970 DPA 37.16 RAP 23.72 ECC 1.5656
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 7 57 2308.83 -21.74 47.54 230.87 108.61 1 46 26 1708.8 -19.00 39.94
 90.00 12 47 15 5031.25 23.35 221.68 231.69 73.51 14 11 6 4431.2 20.87 213.88
 100.00 2 28 43 2048.33 -22.94 27.93 230.42 109.70 3 2 51 1448.5 -20.05 20.33
 100.00 14 9 10 4766.97 24.57 201.83 231.28 72.42 15 28 37 4167.0 21.93 194.03
 110.00 3 35 36 1838.93 -26.18 10.65 229.04 112.81 4 6 15 1238.9 -22.86 3.07
 110.00 15 18 46 4549.14 27.85 184.03 230.01 69.33 16 34 35 3949.1 24.78 176.20

DIFFERENTIAL CORRECTIONS

TDE -.1464 TRA -.3592 TC3 .2669 BAU .2433
 RDE -.2012 RRA .3790 RC3 .4574 FAU .08877
 FDE -.9567 FRA -1.0399 FC3-2.2361 BSP 1900
 BOE .2489 BRA .5221 BC3 .5296 FSP -744

MID-COURSE EXECUTION ACCURACY

SGT 491.6 SGR 680.8 SG3 256.0
 RRT .1969 RRF -.7924 RTF -.2263
 SGB 839.8 R23 -.0752 R13 -.7921
 SG1 694.0 SG2 472.9 THA 74.64

ORBIT DETERMINATION ACCURACY

ST 178.0 SR 226.5 SS 423.7
 CRT .4117 CRS -.6656 CST -.9409
 LSA 481.5 MSA 172.9 SSA 27.3
 EL1 246.5 EL2 149.0 ALF 60.30

LAUNCH DATE FEB 27 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 233.708

RL 148.17 LAL -0.00 LOL 158.23 VL 28.362 GAL -10.14 AZL 90.51 MCA 106.44 SMA 134.46 ECC .20263 INC .5097 V1 30.072
 RP 108.72 LAP -0.49 LOP 264.67 VP 38.137 GAP -3.88 AZP 89.86 TAL 230.17 TAP 336.61 RCA 107.21 APO 161.70 V2 34.858
 RC 71.560 GL -2.45 GP 29.19 ZAL 158.17 ZAP 54.73 ETS 339.63 ZAE 147.60 ETE 55.99 ZAC 115.59 ETC 147.48 CLP -48.59

PLANETOCENTRIC CONIC

C3 33.898 VHL 5.822 OLA -2.27 RAL .91 RAD 6568.3 VEL 12.461 PTH 2.25 VHP 4.768 DPA 38.17 RAP 21.29 ECC 1.5579
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 15 53 2274.19 -20.97 45.29 230.47 109.48 1 53 47 1674.2 -18.12 37.77
 90.00 12 40 15 5058.95 23.87 223.54 231.91 74.30 14 4 34 4458.9 21.49 215.68
 100.00 2 36 10 2015.20 -22.17 25.78 230.00 110.58 3 9 45 1415.2 -19.17 18.27
 100.00 14 2 39 4793.16 25.10 203.60 231.52 73.20 15 22 32 4193.2 22.56 195.72
 110.00 3 41 59 1809.16 -25.38 8.71 228.57 113.70 4 12 8 1209.2 -21.96 1.23
 110.00 15 13 19 4571.97 28.39 185.59 230.30 70.11 16 29 31 3972.0 25.42 177.67

DIFFERENTIAL CORRECTIONS

TDE -.1578 TRA -.3887 TC3 .2179 BAU .2537
 RDE -.1650 RRA .3973 RC3 .5157 FAU .09902
 FDE -1.0870 FRA -1.1087 FC3-2.4269 BSP 2023
 BOE .2283 BRA .5558 BC3 .5599 FSP -815

MID-COURSE EXECUTION ACCURACY

SGT 484.8 SGR 734.9 SG3 277.6
 RRT .0781 RRF -.8261 RTF -.0854
 SGB 880.4 R23 -.0279 R13 -.8259
 SG1 736.6 SG2 482.2 THA 84.83

ORBIT DETERMINATION ACCURACY

ST 193.3 SR 201.2 SS 462.1
 CRT .3052 CRS -.5924 CST -.9365
 LSA 510.9 MSA 172.3 SSA 27.1
 EL1 225.6 EL2 164.1 ALF 48.74

LAUNCH DATE FEB 27 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 240.231

RL 148.17 LAL -0.00 LOL 158.23 VL 28.391 GAL -10.06 AZL 90.72 MCA 109.61 SMA 134.68 ECC .20061 INC .7156 V1 30.072
 RP 108.74 LAP -0.67 LOP 267.84 VP 38.150 GAP -3.29 AZP 89.76 TAL 230.50 TAP 340.11 RCA 107.66 APO 161.70 V2 34.848
 RC 73.792 GL -3.46 GP 31.01 ZAL 158.23 ZAP 59.28 ETS 341.95 ZAE 147.22 ETE 62.51 ZAC 113.38 ETC 147.98 CLP -53.42

PLANETOCENTRIC CONIC

C3 33.466 VHL 5.785 OLA -3.28 RAL 1.14 RAD 6568.3 VEL 12.443 PTH 2.25 VHP 4.600 DPA 39.11 RAP 18.58 ECC 1.5508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 24 18 2239.60 -20.17 43.07 230.21 110.31 2 1 37 1639.6 -17.22 35.64
 90.00 12 33 38 5087.07 24.38 225.44 232.28 75.13 13 58 25 4487.1 22.10 217.51
 100.00 2 44 6 1982.15 -21.36 23.65 229.73 111.42 3 17 8 1382.1 -18.26 16.23
 100.00 13 56 31 4819.76 25.61 205.41 231.90 74.03 15 16 50 4219.8 23.17 197.46
 110.00 3 48 50 1779.50 -24.56 6.80 228.25 114.56 4 18 30 1179.5 -21.03 359.43
 110.00 15 8 16 4595.17 28.92 187.19 230.73 70.92 16 24 51 3995.2 26.04 179.19

DIFFERENTIAL CORRECTIONS

TDE -.1754 TRA -.4245 TC3 .1571 BAU .2674
 RDE -.1250 RRA .4142 RC3 .5767 FAU .10074
 FDE -1.2195 FRA -1.1635 FC3-2.6061 BSP 2191
 BOE .2154 BRA .5931 BC3 .5977 FSP -884

MID-COURSE EXECUTION ACCURACY

SGT 490.5 SGR 793.5 SG3 297.8
 RRT -.0776 RRF -.8544 RTF .0873
 SGB 932.7 R23 .0194 R13 -.8545
 SG1 794.8 SG2 488.1 THA 94.41

ORBIT DETERMINATION ACCURACY

ST 214.8 SR 175.9 SS 500.7
 CRT .1601 CRS -.4743 CST -.9349
 LSA 546.0 MSA 170.1 SSA -26.7
 EL1 219.7 EL2 169.8 ALF 19.23

LAUNCH DATE FEB 27 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 246.719

RL 148.17 LAL -.00 LOL 158.23 VL 28.411 GAL -9.98 AZL 90.93 MCA 112.78 SMA 134.84 ECC .19882 INC .9295 V1 30.072
 RP 108.77 LAP -.86 LOP 271.01 VP 38.157 GAP -2.72 AZP 89.64 TAL 230.70 TAP 343.47 RCA 108.03 APO 161.64 V2 34.839
 RC 76.053 GL -4.53 GP 32.85 ZAL 158.14 ZAP 63.92 ETS 344.42 ZAE 146.55 ETE 69.31 ZAC 111.04 ETC 148.67 CLP -58.45

PLANETOCENTRIC CONIC

C3 33.068 VHL 5.750 DLA -4.30 RAL 1.47 RAD 6568.3 VEL 12.427 PTH 2.25 VHP 4.467 DPA 39.96 RAP 15.64 ECC 1.5442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 16 2204.75 -19.33 40.86 230.10 111.11 2 10 0 1604.7 -16.29 33.50
 90.00 12 27 19 5115.89 24.87 227.41 232.78 76.00 13 52 35 4515.9 22.70 219.41
 100.00 2 52 35 1948.85 -20.52 21.54 229.60 112.23 3 25 4 1348.9 -17.32 14.20
 100.00 13 50 40 4847.01 26.10 207.28 232.42 74.89 15 11 27 4247.0 23.78 199.26
 110.00 3 56 12 1749.68 -23.70 4.91 228.09 115.39 4 25 22 1149.7 -20.08 357.63
 110.00 15 3 32 4618.95 29.43 188.84 231.30 71.78 16 20 31 4018.9 26.66 180.75

DIFFERENTIAL CORRECTIONS

TOE -.1995 TRA -.4654 TC3 .0851 BAU .2853
 RDE -.0810 RRA .4292 RC3 .6396 FAU .10574
 FDE-1.3531 FRA-1.2035 FC3-2.7683 BSP 2426
 BOE .2153 BRA .6331 BC3 .6453 FSP -952

MID-COURSE EXECUTION ACCURACY

SGT 515.1 SGR 855.3 SG3 316.3
 RRT -.2528 RRF -.8780 RTF .2733
 SGB 998.5 R23 .0585 R13 -.8776
 SG1 870.0 SG2 490.0 THA 102.77

ORBIT DETERMINATION ACCURACY

ST 242.8 SR 153.5 SS 539.9
 CRT -.0496 CRS -.2807 CST -.9361
 LSA 587.9 MSA 166.5 SSA 26.3
 EL1 243.0 EL2 153.2 ALF 177.02

LAUNCH DATE FEB 27 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 253.172

RL 148.17 LAL -.00 LOL 158.23 VL 28.423 GAL -9.90 AZL 91.15 MCA 115.94 SMA 134.93 ECC .19722 INC 1.1535 V1 30.072
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.159 GAP -2.18 AZP 89.50 TAL 230.76 TAP 346.70 RCA 108.32 APO 161.54 V2 34.831
 RC 78.340 GL -5.66 GP 34.68 ZAL 157.91 ZAP 68.59 ETS 347.05 ZAE 145.55 ETE 76.19 ZAC 108.62 ETC 149.54 CLP -63.65

PLANETOCENTRIC CONIC

C3 32.698 VHL 5.718 DLA -5.34 RAL 1.91 RAD 6568.3 VEL 12.412 PTH 2.24 VHP 4.368 DPA 40.72 RAP 12.53 ECC 1.5381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 52 2169.24 -18.44 38.63 230.14 111.87 2 19 2 1569.2 -15.31 31.35
 90.00 12 21 12 5145.72 25.34 229.47 233.43 76.92 13 46 57 4545.7 23.29 221.40
 100.00 3 1 42 1914.97 -19.63 19.42 229.62 113.01 3 33 37 1315.0 -16.35 12.16
 100.00 13 45 3 4875.23 26.59 209.24 233.09 75.81 15 6 19 4275.2 24.38 201.14
 110.00 4 4 10 1719.39 -22.80 3.02 228.06 116.19 4 32 49 1119.4 -19.10 355.84
 110.00 14 59 5 4643.57 29.95 190.58 232.02 72.69 16 16 28 4043.6 27.29 182.40

DIFFERENTIAL CORRECTIONS

TOE -.2327 TRA -.5126 TC3 .0001 BAU .3066
 RDE -.0347 RRA .4398 RC3 .7013 FAU .10945
 FDE-1.4767 FRA-1.2180 FC3-2.8979 BSP 2690
 BOE .2352 BRA .6754 BC3 .7013 FSP -1003

MID-COURSE EXECUTION ACCURACY

SGT 566.1 SGR 916.7 SG3 331.0
 RRT -.4242 RRF -.8967 RTF .4504
 SGB 1077.4 R23 .0887 R13 -.8957
 SG1 959.7 SG2 489.6 THA 110.13

ORBIT DETERMINATION ACCURACY

ST 279.8 SR 139.4 SS 576.6
 CRT -.3191 CRS -.0011 CST -.9400
 LSA 635.1 MSA 161.9 SSA 25.9
 EL1 284.3 EL2 130.0 ALF 168.55

LAUNCH DATE FEB 27 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 259.590

RL 148.17 LAL -.00 LOL 158.23 VL 28.427 GAL -9.81 AZL 91.39 MCA 119.10 SMA 134.96 ECC .19578 INC 1.3898 V1 30.072
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.155 GAP -1.67 AZP 89.32 TAL 230.69 TAP 349.79 RCA 108.54 APO 161.39 V2 34.824
 RC 80.651 GL -6.86 GP 36.48 ZAL 157.52 ZAP 73.23 ETS 349.86 ZAE 144.22 ETE 82.96 ZAC 106.16 ETC 150.56 CLP -68.98

PLANETOCENTRIC CONIC

C3 32.357 VHL 5.688 DLA -6.42 RAL 2.45 RAD 6568.3 VEL 12.399 PTH 2.24 VHP 4.303 DPA 41.38 RAP 9.31 ECC 1.5325
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 15 2132.69 -17.50 36.36 230.31 112.62 2 28 47 1532.7 -14.28 29.16
 90.00 12 15 11 5176.99 25.81 231.64 234.22 77.92 13 41 28 4577.0 23.88 223.50
 100.00 3 11 32 1880.13 -18.69 17.26 229.78 113.76 3 42 52 1280.1 -15.32 10.08
 100.00 13 39 34 4904.79 27.07 211.31 233.91 76.80 15 1 19 4304.8 24.98 203.13
 110.00 4 12 48 1688.32 -21.85 1.10 228.18 116.96 4 40 56 1088.3 -18.06 354.02
 110.00 14 54 48 4669.36 30.45 192.41 232.89 73.67 16 12 37 4069.4 27.92 184.14

DIFFERENTIAL CORRECTIONS

TOE -.2743 TRA -.5631 TC3 -.0954 BAU .3320
 RDE .0149 RRA .4465 RC3 .7615 FAU .11194
 FDE-1.5931 FRA-1.2123 FC3-2.9952 BSP 3019
 BOE .2747 BRA .7186 BC3 .7675 FSP -1050

MID-COURSE EXECUTION ACCURACY

SGT 643.3 SGR 977.6 SG3 342.3
 RRT -.5669 RRF -.9121 RTF .5942
 SGB 1170.3 R23 .1105 R13 -.9102
 SG1 1064.2 SG2 486.8 THA 116.38

ORBIT DETERMINATION ACCURACY

ST 325.0 SR 139.1 SS 613.3
 CRT -.6082 CRS .3350 CST -.9451
 LSA 689.9 MSA 156.5 SSA 25.4
 EL1 337.1 EL2 106.4 ALF 163.75

LAUNCH DATE FEB 27 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 265.974

RL 148.17 LAL -.00 LOL 158.23 VL 28.425 GAL -9.72 AZL 91.64 MCA 122.26 SMA 134.94 ECC .19447 INC 1.6409 V1 30.072
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.147 GAP -1.18 AZP 89.12 TAL 230.51 TAP 352.77 RCA 108.70 APO 161.19 V2 34.816
 RC 82.981 GL -8.15 GP 38.24 ZAL 156.98 ZAP 77.79 ETS 352.85 ZAE 142.58 ETE 89.45 ZAC 103.73 ETC 151.70 CLP -74.38

PLANETOCENTRIC CONIC

C3 32.046 VHL 5.661 DLA -7.54 RAL 3.11 RAD 6568.3 VEL 12.386 PTH 2.24 VHP 4.271 DPA 41.95 RAP 6.05 ECC 1.5274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 31 2094.63 -16.49 34.03 230.64 113.35 2 39 25 1494.6 -13.19 26.90
 90.00 12 9 9 5210.19 26.26 233.97 235.18 79.00 13 36 0 4610.2 24.47 225.75
 100.00 3 22 14 1843.90 -17.68 15.04 230.09 114.50 3 52 58 1243.9 -14.23 7.95
 100.00 13 34 7 4936.16 27.53 213.52 234.88 77.88 14 56 23 4336.2 25.59 205.26
 110.00 4 22 13 1656.11 -20.85 359.14 228.45 117.72 4 49 49 1056.1 -16.97 352.16
 110.00 14 50 38 4696.71 30.96 194.38 233.93 74.73 16 8 55 4096.7 28.56 186.01

DIFFERENTIAL CORRECTIONS

TOE -.3263 TRA -.6170 TC3 -.2015 BAU .3602
 RDE .0654 RRA .4462 RC3 .8163 FAU .11272
 FDE-1.6904 FRA-1.1767 FC3-3.0452 BSP 3370
 BOE .3328 BRA .7614 BC3 .8408 FSP -1073

MID-COURSE EXECUTION ACCURACY

SGT 746.9 SGR 1032.5 SG3 348.4
 RRT -.6738 RRF -.9241 RTF .7000
 SGB 1274.4 R23 .1275 R13 -.9212
 SG1 1179.2 SG2 483.3 THA 121.97

ORBIT DETERMINATION ACCURACY

ST 380.6 SR 154.4 SS 646.4
 CRT -.8151 CRS .6117 CST -.9509
 LSA 750.4 MSA 150.9 SSA 24.8
 EL1 401.8 EL2 84.7 ALF 160.82

LAUNCH DATE FEB 27 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 272.324

RL 148.17 LAL -.00 LOL 158.23 VL 28.416 GAL -9.62 AZL 91.91 MCA 125.42 SMA 134.88 ECC .19326 INC 1.9100 V1 30.072
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.135 GAP -.71 AZP 88.89 TAL 230.21 TAP 355.63 RCA 108.81 APO 160.95 V2 34.810
 RC 85.328 GL -9.54 GP 39.95 ZAL 156.27 ZAP 82.20 ETS 356.01 ZAE 140.65 ETE 95.54 ZAC 101.36 ETC 152.92 CLP -79.80

PLANETOCENTRIC CONIC

C3 31.773 VML 5.637 DLA -8.72 RAL 3.88 RAD 6568.3 VEL 12.375 PTH 2.23 VHP 4.272 DPA 42.46 RAP 2.83 ECC 1.5229
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 51 2054.56 -15.39 31.60 231.14 114.06 2 51 5 1454.6 -12.01 24.55
 90.00 12 2 59 5245.95 26.70 236.49 236.31 80.19 13 30 25 4646.0 25.07 228.20
 100.00 3 33 57 1805.82 -16.59 12.74 230.57 115.23 4 4 3 1205.8 -13.06 5.73
 100.00 13 28 34 4969.93 27.99 215.93 236.04 79.06 14 51 24 4369.9 26.20 207.58
 110.00 4 32 32 1622.38 -19.77 357.12 228.87 118.47 4 59 34 1022.4 -15.81 350.24
 110.00 14 46 29 4726.13 31.47 196.53 235.15 75.91 16 5 15 4126.1 29.21 188.05

DIFFERENTIAL CORRECTIONS

TOE -.3882 TRA -.6712 TC3 -.3149 BAU .3916
 RDE .1186 RRA .4406 RC3 .8665 FAU .11213
 FDE -1.7754 FRA -1.1219 FC3 -3.0552 BSP 3777
 BOE .4059 BRA .8029 BC3 .9220 FSP -1091

MID-COURSE EXECUTION ACCURACY

SGT 870.8 SGR 1083.5 SG3 350.4
 RRT -.7495 RRF -.9340 RTF .7734
 SGB 1390.1 R23 .1403 R13 -.9300
 SG1 1305.1 SG2 478.6 THA 126.81

ORBIT DETERMINATION ACCURACY

ST 445.8 SR 184.0 SS 679.3
 CRT -.9267 CRS .7901 CST -.9567
 LSA 819.9 MSA 145.3 SSA 24.0
 EL1 477.9 EL2 64.5 ALF 158.66

LAUNCH DATE FEB 27 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 278.643

RL 148.17 LAL -.00 LOL 158.23 VL 28.402 GAL -9.51 AZL 92.20 MCA 128.58 SMA 134.77 ECC .19215 INC 2.2011 V1 30.072
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.119 GAP -.26 AZP 88.63 TAL 229.81 TAP 358.39 RCA 108.87 APO 160.67 V2 34.804
 RC 87.691 GL -11.04 GP 41.61 ZAL 155.38 ZAP 86.40 ETS 359.31 ZAE 138.50 ETE 101.13 ZAC 99.08 ETC 154.17 CLP -85.18

PLANETOCENTRIC CONIC

C3 31.545 VML 5.617 DLA -9.97 RAL 4.78 RAD 6568.3 VEL 12.366 PTH 2.23 VHP 4.304 DPA 42.95 RAP 359.68 ECC 1.5192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 28 2011.85 -14.19 29.04 231.81 114.76 3 4 0 1411.9 -10.73 22.06
 90.00 11 56 31 5285.04 27.12 239.28 237.63 81.53 13 24 36 4685.0 25.67 230.91
 100.00 3 46 53 1765.32 -15.40 10.32 231.22 115.94 4 16 18 1165.3 -11.79 3.39
 100.00 13 22 48 5006.80 28.44 218.58 237.39 80.39 14 46 14 4406.8 26.82 210.15
 110.00 4 43 56 1586.68 -18.59 355.02 229.48 119.21 5 10 22 986.7 -14.56 348.23
 110.00 14 42 14 4758.21 31.98 198.89 236.58 77.22 16 1 32 4158.2 29.89 190.30

DIFFERENTIAL CORRECTIONS

TOE -.4616 TRA -.7248 TC3 -.4343 BAU .4243
 RDE .1718 RRA .4266 RC3 .9075 FAU .10977
 FDE -1.8382 FRA -1.0406 FC3 -3.0127 BSP 4196
 BOE .4926 BRA .8411 BC3 1.0061 FSP -1085

MID-COURSE EXECUTION ACCURACY

SGT 1011.6 SGR 1124.8 SG3 347.0
 RRT -.8011 RRF -.9418 RTF .8228
 SGB 1512.8 R23 .1520 R13 -.9365
 SG1 1436.6 SG2 474.0 THA 131.22

ORBIT DETERMINATION ACCURACY

ST 522.2 SR 221.9 SS 708.7
 CRT -.9739 CRS .8861 CST -.9621
 LSA 896.7 MSA 140.0 SSA 23.1
 EL1 565.5 EL2 46.5 ALF 157.36

LAUNCH DATE FEB 27 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 284.929

RL 148.17 LAL -.00 LOL 158.23 VL 28.383 GAL -9.40 AZL 92.52 MCA 131.73 SMA 134.62 ECC .19112 INC 2.5188 V1 30.072
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.100 GAP .17 AZP 88.32 TAL 229.31 TAP 1.05 RCA 108.89 APO 160.35 V2 34.799
 RC 90.065 GL -12.69 GP 43.23 ZAL 154.31 ZAP 90.34 ETS 2.76 ZAE 136.16 ETE 106.19 ZAC 96.94 ETC 155.42 CLP -90.47

PLANETOCENTRIC CONIC

C3 31.379 VML 5.602 DLA -11.33 RAL 5.81 RAD 6568.2 VEL 12.359 PTH 2.23 VHP 4.369 DPA 43.44 RAP 356.66 ECC 1.5164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 39 1965.77 -12.86 26.31 232.70 115.45 3 18 25 1365.8 -9.33 19.41
 90.00 11 49 33 5328.46 27.52 242.39 239.18 83.04 13 18 21 4728.5 26.27 233.95
 100.00 4 1 17 1721.75 -14.08 7.75 232.08 116.64 4 29 59 1121.8 -10.40 .90
 100.00 13 16 36 5047.71 28.87 221.54 238.98 81.89 14 40 44 4447.7 27.45 213.03
 110.00 4 56 36 1548.51 -17.31 352.80 230.28 119.95 5 22 25 948.5 -13.20 346.11
 110.00 14 37 46 4793.72 32.48 201.54 238.26 78.71 15 57 40 4193.7 30.58 192.83

DIFFERENTIAL CORRECTIONS

TOE -.5467 TRA -.7750 TC3 -.5559 BAU .4584
 RDE .2273 RRA .4065 RC3 .9408 FAU .10615
 FDE -1.8862 FRA -.9450 FC3 -2.9287 BSP 4651
 BOE .5921 BRA .8751 BC3 1.0928 FSP -1071

MID-COURSE EXECUTION ACCURACY

SGT 1163.7 SGR 1159.7 SG3 339.7
 RRT -.8368 RRF -.9485 RTF .8566
 SGB 1642.9 R23 .1620 R13 -.9416
 SG1 1574.4 SG2 469.3 THA 135.12

ORBIT DETERMINATION ACCURACY

ST 609.8 SR 266.9 SS 737.7
 CRT -.9920 CRS .9380 CST -.9670
 LSA 984.1 MSA 135.4 SSA 21.9
 EL1 664.9 EL2 31.0 ALF 156.48

LAUNCH DATE FEB 27 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 291.185

RL 148.17 LAL -.00 LOL 158.23 VL 28.360 GAL -9.28 AZL 92.87 MCA 134.89 SMA 134.44 ECC .19015 INC 2.8693 V1 30.072
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.078 GAP .58 AZP 87.97 TAL 228.72 TAP 3.61 RCA 108.88 APO 160.00 V2 34.795
 RC 92.449 GL -14.50 GP 44.85 ZAL 153.03 ZAP 93.98 ETS 6.33 ZAE 133.69 ETE 110.72 ZAC 94.95 ETC 156.64 CLP -95.62

PLANETOCENTRIC CONIC

C3 31.293 VML 5.594 DLA -12.80 RAL 6.98 RAD 6568.2 VEL 12.356 PTH 2.23 VHP 4.467 DPA 43.98 RAP 353.77 ECC 1.5150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 46 1915.38 -11.37 23.36 233.83 116.11 3 34 41 1315.4 -7.76 16.53
 90.00 11 41 49 5377.48 27.87 245.94 240.99 84.78 13 11 26 4777.5 26.86 237.42
 100.00 4 17 30 1674.29 -12.62 4.99 233.19 117.32 4 45 24 1074.3 -8.86 358.22
 100.00 13 9 46 5093.80 29.27 224.91 240.83 83.62 14 34 40 4493.8 28.08 216.31
 110.00 5 10 50 1507.24 -15.89 350.45 231.31 120.67 5 35 57 907.2 -11.71 343.84
 110.00 14 32 56 4833.62 32.97 204.55 240.22 80.43 15 53 29 4233.6 31.30 195.72

DIFFERENTIAL CORRECTIONS

TOE -.6450 TRA -.8200 TC3 -.6771 BAU .4923
 RDE .2827 RRA .3777 RC3 .9624 FAU .10107
 FDE -1.9125 FRA -.8308 FC3 -2.7962 BSP 5097
 BOE .7042 BRA .9028 BC3 1.1768 FSP -1035

MID-COURSE EXECUTION ACCURACY

SGT 1323.7 SGR 1183.5 SG3 327.7
 RRT -.8609 RRF -.9539 RTF .8795
 SGB 1775.6 R23 .1723 R13 -.9452
 SG1 1713.6 SG2 465.1 THA 138.71

ORBIT DETERMINATION ACCURACY

ST 709.7 SR 314.8 SS 763.5
 CRT -.9974 CRS .9658 CST -.9713
 LSA 1080.7 MSA 131.8 SSA 20.4
 EL1 776.1 EL2 20.9 ALF 156.12

LAUNCH DATE FEB 27 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 297.412

RL 148.17 LAL -.00 LOL 158.23 VL 28.332 GAL -9.15 AZL 93.26 HCA 138.04 SMA 134.23 ECC .18925 INC 3.2604 V1 30.072
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.055 GAP .97 AZP 87.57 TAL 228.05 TAP 6.08 RCA 108.82 APO 159.63 V2 34.791
 RC 94.840 GL -16.51 GP 46.50 ZAL 151.52 ZAP 97.27 ETS 10.02 ZAE 131.10 ETE 114.74 ZAC 93.10 ETC 157.80 CLP-100.59

PLANETOCENTRIC CONIC

C3 31.320 VHL 5.596 DLA -14.42 RAL 8.33 RAD 6568.2 VEL 12.357 PTH 2.23 VHP 4.598 DPA 44.61 RAP 351.01 ECC 1.5154
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 19 1859.47 -9.67 20.13 235.27 116.74 3 53 19 1259.5 -6.01 13.36
 90.00 11 32 57 5433.82 28.15 250.03 243.10 86.82 13 3 31 4833.8 27.41 241.45
 100.00 4 35 57 1621.89 -10.96 1.98 234.59 117.98 5 2 59 1021.9 -7.13 355.28
 100.00 13 2 0 5146.63 29.60 228.80 242.99 85.65 14 27 47 4546.6 28.68 220.12
 110.00 5 26 57 1462.16 -14.31 347.91 232.63 121.38 5 51 19 862.2 -10.05 341.40
 110.00 14 27 30 4879.13 33.43 208.02 242.52 82.43 15 48 49 4279.1 32.03 199.07

DIFFERENTIAL CORRECTIONS

TDE -.7581 TRA -.8577 TC3 -.7943 BAU .5263
 RDE .3410 RRA .3423 RC3 .9742 FAU .09507
 FDE-1.9260 FRA -.7094 FC3-2.6279 BSP 5573
 BDE .8313 BRA .9235 BC3 1.2569 FSP -994

MID-COURSE EXECUTION ACCURACY

SGT 1488.2 SGR 1200.7 SG3 312.7
 RRT -.8777 RRF -.9588 RTF .8957
 SGB 1912.2 R23 .1822 R13 -.9481
 SG1 1855.7 SG2 461.5 THA 141.92

ORBIT DETERMINATION ACCURACY

ST 822.9 SR 367.1 SS 789.3
 CRT -.9978 CRS .9815 CST -.9751
 LSA 1190.7 MSA 129.4 SSA 18.8
 EL1 900.8 EL2 22.5 ALF 155.99

LAUNCH DATE FEB 27 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 303.609

RL 148.17 LAL -.00 LOL 158.23 VL 28.301 GAL -9.02 AZL 93.70 HCA 141.19 SMA 133.99 ECC .18840 INC 3.7023 V1 30.072
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.028 GAP 1.34 AZP 87.11 TAL 227.29 TAP 8.47 RCA 108.74 APO 159.23 V2 34.788
 RC 97.236 GL -18.76 GP 48.22 ZAL 149.75 ZAP 100.17 ETS 13.82 ZAE 128.42 ETE 118.29 ZAC 91.40 ETC 158.90 CLP-105.37

PLANETOCENTRIC CONIC

C3 31.501 VHL 5.613 DLA -16.21 RAL 9.86 RAD 6568.3 VEL 12.364 PTH 2.23 VHP 4.768 DPA 45.37 RAP 348.34 ECC 1.5184
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 1 1796.36 -7.72 16.52 237.09 117.33 4 14 58 1196.4 -4.00 9.82
 90.00 11 22 28 5499.83 28.31 254.86 245.57 89.23 12 54 8 4899.8 27.90 246.21
 100.00 4 57 18 1563.16 -9.07 358.65 236.36 118.61 5 23 21 963.2 -5.18 352.02
 100.00 12 52 52 5208.27 29.83 233.37 245.53 88.04 14 19 41 4608.3 29.24 224.61
 110.00 5 45 27 1412.32 -12.53 345.15 234.30 122.07 6 8 59 812.3 -8.20 338.73
 110.00 14 21 13 4931.86 33.83 212.08 245.23 84.81 15 43 25 4331.9 32.75 203.02

DIFFERENTIAL CORRECTIONS

TDE -.8885 TRA -.8854 TC3 -.9028 BAU .5587
 RDE .4006 RRA .2981 RC3 .9721 FAU .08805
 FDE-1.9221 FRA -.5784 FC3-2.4198 BSP 6024
 BDE .9746 BRA .9342 BC3 1.3267 FSP -936

MID-COURSE EXECUTION ACCURACY

SGT 1654.0 SGR 1207.7 SG3 294.3
 RRT -.8887 RRF -.9628 RTF .9071
 SGB 2048.0 R23 .1927 R13 -.9500
 SG1 1995.9 SG2 458.9 THA 144.89

ORBIT DETERMINATION ACCURACY

ST 950.4 SR 421.1 SS 812.6
 CRT -.9963 CRS .9903 CST -.9784
 LSA 1313.1 MSA 128.4 SSA 16.9
 EL1 1039.0 EL2 33.3 ALF 156.16

LAUNCH DATE FEB 27 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 309.779

RL 148.17 LAL -.00 LOL 158.23 VL 28.266 GAL -8.88 AZL 94.21 HCA 144.33 SMA 133.72 ECC .18761 INC 4.2091 V1 30.072
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.001 GAP 1.70 AZP 86.58 TAL 226.46 TAP 10.79 RCA 108.63 APO 158.81 V2 34.786
 RC 99.636 GL -21.28 GP 50.05 ZAL 147.69 ZAP 102.66 ETS 17.76 ZAE 125.65 ETE 121.42 ZAC 89.83 ETC 159.92 CLP-109.96

PLANETOCENTRIC CONIC

C3 31.902 VHL 5.648 DLA -18.22 RAL 11.61 RAD 6568.3 VEL 12.380 PTH 2.23 VHP 4.981 DPA 46.30 RAP 345.70 ECC 1.5250
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 56 1723.57 -5.42 12.40 239.41 117.84 4 40 40 1123.6 -1.65 5.75
 90.00 11 9 33 5578.99 28.24 260.64 248.45 92.13 12 42 32 4979.0 28.24 251.98
 100.00 5 22 25 1496.12 -6.86 354.90 238.63 119.17 5 47 21 896.1 -2.92 348.32
 100.00 12 41 45 5281.67 29.88 238.82 248.50 90.91 14 9 47 4681.7 29.69 230.02
 110.00 6 6 58 1356.56 -10.49 342.11 236.42 122.72 6 29 34 756.6 -6.10 335.77
 110.00 14 13 42 4993.99 34.11 216.91 248.44 87.65 15 36 56 4394.0 33.41 207.74

DIFFERENTIAL CORRECTIONS

TDE-1.0409 TRA -.9016 TC3 -.9992 BAU .5904
 RDE .4648 RRA .2471 RC3 .9578 FAU .08052
 FDE-1.9093 FRA -.4485 FC3-2.1850 BSP 6506
 BDE 1.1399 BRA .9349 BC3 1.3842 FSP -877

MID-COURSE EXECUTION ACCURACY

SGT 1821.0 SGR 1209.4 SG3 274.2
 RRT -.8960 RRF -.9666 RTF .9157
 SGB 2186.1 R23 .2027 R13 -.9517
 SG1 2137.6 SG2 457.6 THA 147.58

ORBIT DETERMINATION ACCURACY

ST 1095.2 SR 479.2 SS 836.3
 CRT -.9943 CRS .9953 CST -.9814
 LSA 1453.2 MSA 128.8 SSA 14.8
 EL1 1194.5 EL2 47.0 ALF 156.45

LAUNCH DATE FEB 27 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 315.922

RL 148.17 LAL -.00 LOL 158.23 VL 28.229 GAL -8.73 AZL 94.80 HCA 147.48 SMA 133.44 ECC .18686 INC 4.7998 V1 30.072
 RP 108.94 LAP -2.58 LOP 305.80 VP 37.971 GAP 2.04 AZP 85.95 TAL 225.55 TAP 13.03 RCA 108.50 APO 158.37 V2 34.784
 RC 102.038 GL -24.13 GP 52.07 ZAL 145.28 ZAP 104.69 ETS 21.85 ZAE 122.78 ETE 124.20 ZAC 88.35 ETC 160.91 CLP-114.37

PLANETOCENTRIC CONIC

C3 32.619 VHL 5.711 DLA -20.48 RAL 13.63 RAD 6568.3 VEL 12.409 PTH 2.24 VHP 5.245 DPA 47.44 RAP 343.00 ECC 1.5368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 44 47 1636.93 -2.65 7.54 242.43 118.20 5 12 4 1036.9 1.14 .92
 90.00 10 52 51 5676.82 27.79 267.76 251.79 95.67 12 27 27 5076.8 28.28 259.13
 100.00 5 52 44 1417.65 -4.24 350.55 241.55 119.62 6 16 21 817.7 -.26 344.02
 100.00 12 27 35 5371.32 29.60 245.47 251.97 94.40 13 57 6 4771.3 29.89 236.68
 110.00 6 32 26 1293.23 -8.14 338.71 239.15 123.31 6 53 59 693.2 -3.70 332.44
 110.00 14 4 22 5068.51 34.17 222.73 252.23 91.10 15 28 51 4468.5 33.94 213.49

DIFFERENTIAL CORRECTIONS

TDE-1.2204 TRA -.9021 TC3-1.0766 BAU .6193
 RDE .5321 RRA .1861 RC3 .9260 FAU .07235
 FDE-1.8831 FRA -.3166 FC3-1.9201 BSP 6953
 BDE 1.3314 BRA .9211 BC3 1.4200 FSP -804

MID-COURSE EXECUTION ACCURACY

SGT 1986.1 SGR 1201.4 SG3 251.8
 RRT -.8997 RRF -.9698 RTF .9221
 SGB 2321.2 R23 .2131 R13 -.9529
 SG1 2275.6 SG2 457.7 THA 150.11

ORBIT DETERMINATION ACCURACY

ST 1258.7 SR 538.0 SS 857.8
 CRT -.9923 CRS .9980 CST -.9841
 LSA 1610.1 MSA 130.7 SSA 12.7
 EL1 1367.5 EL2 61.5 ALF 156.97

LAUNCH DATE FEB 27 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 322.038

RL 148.17 LAL -0.00 LOL 158.23 VL 28.188 GAL -8.57 AZL 95.50 MCA 150.62 SMA 133.13 ECC .18616 INC 5.5017 V1 30.072
 RP 108.95 LAP -2.70 LOP 308.96 VP 37.941 GAP 2.37 AZP 85.20 TAL 224.58 TAP 15.20 RCA 108.35 APO 157.92 V2 34.783
 RC 104.441 GL -27.36 GP 54.32 ZAL 142.48 ZAP 106.24 ETS 26.14 ZAE 119.77 ETE 126.73 ZAC 86.92 ETC 161.90 CLP-118.66

PLANETOCENTRIC CONIC

C3 33.804 VHL 5.814 DLA -23.02 RAL 15.99 RAD 6568.3 VEL 12.457 PTH 2.25 VHP 5.575 DPA 48.79 RAP 340.12 ECC 1.5563
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 51 1528.11 .86 1.47 246.44 118.30 5 52 19 928.1 4.64 354.83
 90.00 10 29 34 5803.62 26.60 276.85 235.57 100.07 12 6 17 5203.6 27.73 268.36
 100.00 6 30 40 1322.12 -1.01 345.30 245.40 119.88 6 52 42 722.1 2.97 338.77
 100.00 12 8 26 5484.84 28.71 253.79 255.96 98.69 13 39 51 4884.8 29.62 245.10
 110.00 7 3 16 1219.87 -5.38 334.83 242.69 123.81 7 23 36 619.9 -.90 328.61
 110.00 13 52 18 5159.86 33.82 229.84 256.70 95.29 15 18 18 4559.9 34.18 220.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4375 TRA -.8846 TC3-1.1295 BAU .6462 SGT 2151.5 SGR 1187.9 SG3 228.6 ST 1445.4 SR 598.7 SS 879.4
 RDE .6055 RRA .1162 RC3 .8768 FAU .06397 RRT -.9008 RRF -.9726 RTF .9277 CRT -.9906 CRS .9994 CST -.9866
 FDE-1.8507 FRA -.1916 FC3-1.6384 BSP 7430 SGB 2457.7 R23 .2221 R13 -.9543 LSA 1789.7 MSA 133.6 SSA 10.6
 BDE 1.5599 BRA .8922 BC3 1.4299 FSP -733 SG1 2414.3 SG2 459.6 THA 152.47 EL1 1562.6 EL2 75.9 ALF 157.64

LAUNCH DATE FEB 27 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 328.126

RL 148.17 LAL -0.00 LOL 158.23 VL 28.146 GAL -8.40 AZL 96.36 MCA 153.75 SMA 132.81 ECC .18551 INC 6.3551 V1 30.072
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.909 GAP 2.68 AZP 84.30 TAL 223.55 TAP 17.30 RCA 108.18 APO 157.45 V2 34.783
 RC 106.844 GL -31.05 GP 56.87 ZAL 139.21 ZAP 107.27 ETS 30.67 ZAE 116.58 ETE 129.11 ZAC 85.48 ETC 162.96 CLP-122.90

PLANETOCENTRIC CONIC

C3 35.703 VHL 5.975 DLA -25.90 RAL 18.76 RAD 6568.4 VEL 12.533 PTH 2.27 VHP 5.993 DPA 50.36 RAP 336.88 ECC 1.5876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 26 45 1372.86 5.84 352.78 252.12 117.76 6 49 38 772.9 9.51 346.02
 90.00 9 51 45 698.43 23.80 311.59 259.51 105.81 10 3 24 98.4 25.74 303.46
 100.00 7 21 29 1196.12 3.26 338.38 250.70 119.73 7 41 25 596.1 7.19 331.80
 100.00 11 39 42 5638.44 26.64 264.73 260.34 104.08 13 13 41 5038.4 28.32 256.33
 110.00 7 41 52 1132.16 -2.04 330.23 247.40 124.13 8 0 44 532.2 2.45 324.03
 110.00 13 35 49 5275.17 32.75 238.66 261.87 100.40 15 3 44 4675.2 33.83 229.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.7055 TRA -.8423 TC3-1.1486 BAU .6695 SGT 2316.2 SGR 1164.8 SG3 204.4 ST 1657.9 SR 656.0 SS 899.0
 RDE .6834 RRA .0340 RC3 .8052 FAU .05540 RRT -.8909 RRF -.9745 RTF .9330 CRT -.9891 CRS .9999 CST -.9888
 FDE-1.8099 FRA -.0730 FC3-1.3435 BSP 7903 SGB 2592.5 R23 .2293 R13 -.9560 LSA 1992.1 MSA 137.4 SSA 8.7
 BDE 1.8373 BRA .8430 BC3 1.4027 FSP -658 SG1 2550.8 SG2 463.4 THA 154.78 EL1 1780.7 EL2 89.9 ALF 158.57

LAUNCH DATE FEB 27 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 334.188

RL 148.17 LAL -0.00 LOL 158.23 VL 28.101 GAL -8.22 AZL 97.42 MCA 156.88 SMA 132.48 ECC .18490 INC 7.4215 V1 30.072
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.876 GAP 2.98 AZP 83.17 TAL 222.45 TAP 19.33 RCA 107.99 APO 156.98 V2 34.784
 RC 109.246 GL -35.25 GP 59.79 ZAL 135.39 ZAP 107.72 ETS 35.57 ZAE 113.15 ETE 131.52 ZAC 83.97 ETC 164.25 CLP-127.23

PLANETOCENTRIC CONIC

C3 38.741 VHL 6.224 DLA -29.13 RAL 22.07 RAD 6568.5 VEL 12.653 PTH 2.30 VHP 6.534 DPA 52.15 RAP 333.06 ECC 1.6376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.86 7 23 22 1247.34 15.76 348.61 261.62 114.82 7 44 9 647.3 18.98 341.35
 97.14 9 21 33 865.23 15.78 320.59 261.62 114.81 9 35 58 265.2 18.99 313.33
 100.00 8 47 10 975.59 10.56 326.07 258.95 118.13 9 3 26 375.6 14.24 319.22
 100.00 10 40 25 612.21 21.12 304.29 264.04 111.66 10 50 37 12.2 23.88 296.57
 110.00 8 32 59 1020.24 2.24 324.40 253.91 124.12 8 49 59 420.2 6.70 318.15
 110.00 13 11 6 5428.37 30.30 249.92 267.57 106.64 14 41 34 4828.4 32.28 241.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.0452 TRA -.7645 TC3-1.1222 BAU .6864 SGT 2478.9 SGR 1124.4 SG3 179.3 ST 1898.6 SR 700.2 SS 914.3
 RDE .7598 RRA -.0655 RC3 .7050 FAU .04663 RRT -.8923 RRF -.9746 RTF .9383 CRT -.9875 CRS .9997 CST -.9908
 FDE-1.7588 FRA .0399 FC3-1.0420 BSP 8323 SGB 2722.0 R23 .2346 R13 -.9580 LSA 2216.0 MSA 141.8 SSA 7.0
 BDE 2.1818 BRA .7673 BC3 1.3252 FSP -574 SG1 2681.2 SG2 469.2 THA 157.23 EL1 2020.9 EL2 103.5 ALF 159.93

LAUNCH DATE FEB 27 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 340.219

RL 148.17 LAL -0.00 LOL 158.23 VL 28.055 GAL -8.04 AZL 98.80 MCA 160.00 SMA 132.14 ECC .18432 INC 8.8008 V1 30.072
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.843 GAP 3.27 AZP 81.72 TAL 221.30 TAP 21.30 RCA 107.78 APO 156.49 V2 34.785
 RC 111.645 GL -40.01 GP 63.16 ZAL 130.97 ZAP 107.56 ETS 41.05 ZAE 109.38 ETE 134.25 ZAC 82.27 ETC 166.02 CLP-131.93

PLANETOCENTRIC CONIC

C3 43.700 VHL 6.611 DLA -32.71 RAL 26.08 RAD 6568.7 VEL 12.848 PTH 2.34 VHP 7.257 DPA 54.08 RAP 328.30 ECC 1.7192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.90 6 26 54 1507.31 16.57 8.52 268.46 118.61 6 52 1 907.3 20.26 1.46
 107.10 10 50 3 666.03 16.58 306.08 268.47 118.60 11 1 9 66.0 20.27 299.02
 72.90 6 26 54 1507.31 16.57 8.52 268.46 118.61 6 52 1 907.3 20.26 1.46
 107.10 10 50 3 666.03 16.58 306.08 268.47 118.60 11 1 9 66.0 20.27 299.02
 110.00 9 52 19 844.05 8.90 315.10 263.77 123.14 10 6 23 244.0 13.20 308.65
 110.00 12 23 48 5665.34 24.58 265.96 272.74 114.54 13 58 13 5065.3 27.67 258.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.4944 TRA -.6378 TC3-1.0422 BAU .6959 SGT 2646.6 SGR 1061.8 SG3 154.4 ST 2171.4 SR 717.1 SS 926.6
 RDE .8243 RRA -.1834 RC3 .5767 FAU .03804 RRT -.8793 RRF -.9706 RTF .9451 CRT -.9855 CRS .9987 CST -.9928
 FDE-1.7040 FRA .1402 FC3 -.7536 BSP 8782 SGB 2851.6 R23 .2342 R13 -.9614 LSA 2463.0 MSA 145.8 SSA 5.4
 BDE 2.6271 BRA .6637 BC3 1.1911 FSP -495 SG1 2811.6 SG2 476.0 THA 159.97 EL1 2283.8 EL2 115.7 ALF 161.92

LAUNCH DATE FEB 27 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 346.217

RL 148.17 LAL -.00 LOL 158.23 VL 28.007 GAL -7.84 AZL 100.67 MCA 163.11 SMA 131.78 ECC .18377 INC10.6650 V1 30.072
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.809 GAP 3.54 AZP 79.79 TAL 220.09 TAP 23.20 RCA 107.57 APO 156.00 V2 34.787
 RC 114.042 GL -45.33 GP 67.05 ZAL 125.89 ZAP 106.73 ETS 47.56 ZAE 105.16 ETE 137.86 ZAC 80.25 ETC 168.82 CLP-137.59

PLANETOCENTRIC CONIC

C3 52.135 VHL 7.220 OLA -36.55 RAL 31.04 RAD 6568.9 VEL 13.172 PTH 2.41 VHP 8.267 DPA 56.01 RAP 322.13 ECC 1.8580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.86 6 5 10 1677.41 16.70 21.95 277.15 122.99 6 33 7 1077.4 20.92 15.19
 114.14 11 51 19 5872.30 16.71 277.66 277.16 122.99 13 29 12 5272.3 20.94 270.89
 65.86 6 5 10 1677.41 16.70 21.95 277.15 122.99 6 33 7 1077.4 20.92 15.19
 114.14 11 51 19 5872.30 16.71 277.66 277.16 122.99 13 29 12 5272.3 20.94 270.89
 65.86 6 5 10 1677.41 16.70 21.95 277.15 122.99 6 33 7 1077.4 20.92 15.19
 114.14 11 51 19 5872.30 16.71 277.66 277.16 122.99 13 29 12 5272.3 20.94 270.89

DIFFERENTIAL CORRECTIONS

TDE-3.1104 TRA -4.290 TC3 -.8977 BAU .6902
 RDE .8313 RRA -.3256 RC3 .4179 FAU .02960
 FDE-1.6443 FRA .2320 FC3 -.4915 BSP 9195
 BDE 3.2196 BRA .5385 BC3 .9902 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 2819.9 SGR 950.1 SG3 129.8
 RRT -.8488 RRF -.9543 RTF .9541
 SGB 2975.7 R23 .2269 R13 -.9662
 SG1 2936.3 SG2 482.4 THA 163.58

ORBIT DETERMINATION ACCURACY

ST 2471.7 SR 666.9 SS 933.4
 CRT -.9807 CRS .9957 CST -.9946
 LSA 2720.9 MSA 149.2 SSA 4.1
 EL1 2557.0 EL2 126.2 ALF 165.14

LAUNCH DATE FEB 27 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 352.172

RL 148.17 LAL -.00 LOL 158.23 VL 27.958 GAL -7.63 AZL 103.34 MCA 166.19 SMA 131.42 ECC .18322 INC13.3368 V1 30.072
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.776 GAP 3.80 AZP 77.04 TAL 218.81 TAP 25.00 RCA 107.34 APO 155.50 V2 34.790
 RC 116.435 GL -51.07 GP 71.49 ZAL 120.13 ZAP 105.20 ETS 56.24 ZAE 100.28 ETE 143.61 ZAC 77.71 ETC 173.88 CLP-145.66

PLANETOCENTRIC CONIC

C3 67.515 VHL 8.217 OLA -40.40 RAL 37.23 RAD 6569.3 VEL 13.743 PTH 2.51 VHP 9.761 DPA 57.62 RAP 313.94 ECC 2.1111
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.89 6 0 35 1824.96 15.63 33.36 288.03 127.74 6 31 0 1225.0 20.41 27.03
 120.11 12 45 21 5850.73 15.64 275.08 288.04 127.73 14 22 51 5250.7 20.43 268.76
 59.89 6 0 35 1824.96 15.63 33.36 288.03 127.74 6 31 0 1225.0 20.41 27.03
 120.11 12 45 21 5850.73 15.64 275.08 288.04 127.73 14 22 51 5250.7 20.43 268.76
 59.89 6 0 35 1824.96 15.63 33.36 288.03 127.74 6 31 0 1225.0 20.41 27.03
 120.11 12 45 21 5850.73 15.64 275.08 288.04 127.73 14 22 51 5250.7 20.43 268.76

DIFFERENTIAL CORRECTIONS

TDE-3.9908 TRA -.0722 TC3 -.6870 BAU .6568
 RDE .6434 RRA -.4790 RC3 .2397 FAU .02153
 FDE-1.5908 FRA .3165 FC3 -.2761 BSP 9595
 BDE 4.0424 BRA .4844 BC3 .7276 FSP -337

MID-COURSE EXECUTION ACCURACY

SGT 3003.9 SGR 740.8 SG3 106.5
 RRT -.7478 RRF -.8796 RTF .9666
 SGB 3093.9 R23 .2071 R13 -.9732
 SG1 3055.9 SG2 483.5 THA 169.28

ORBIT DETERMINATION ACCURACY

ST 2783.1 SR 467.7 SS 938.4
 CRT -.9575 CRS .9786 CST -.9964
 LSA 2970.3 MSA 150.1 SSA 3.1
 EL1 2819.0 EL2 133.2 ALF 170.84

LAUNCH DATE FEB 27 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 358.063

RL 148.17 LAL -.00 LOL 158.23 VL 27.907 GAL -7.40 AZL 107.49 MCA 169.23 SMA 131.06 ECC .18264 INC17.4941 V1 30.072
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.741 GAP 4.03 AZP 72.80 TAL 217.46 TAP 26.69 RCA 107.12 APO 154.99 V2 34.794
 RC 118.823 GL -56.83 GP 76.26 ZAL 113.78 ZAP 102.95 ETS 70.34 ZAE 94.40 ETE 154.85 ZAC 74.27 ETC 184.61 CLP-160.69

PLANETOCENTRIC CONIC

C3 98.771 VHL 9.938 OLA -43.70 RAL 44.96 RAD 6569.9 VEL 14.836 PTH 2.68 VHP 12.156 DPA 58.28 RAP 303.10 ECC 2.6255
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.21 6 11 36 1965.54 12.78 43.19 301.21 132.15 6 44 21 1365.5 18.07 37.38
 124.79 13 35 56 5883.05 12.80 275.45 301.22 132.15 15 13 59 5283.1 18.09 269.64
 55.21 6 11 36 1965.54 12.78 43.19 301.21 132.15 6 44 21 1365.5 18.07 37.38
 124.79 13 35 56 5883.05 12.80 275.45 301.22 132.15 15 13 59 5283.1 18.09 269.64
 55.21 6 11 36 1965.54 12.78 43.19 301.21 132.15 6 44 21 1365.5 18.07 37.38
 124.79 13 35 56 5883.05 12.80 275.45 301.22 132.15 15 13 59 5283.1 18.09 269.64

DIFFERENTIAL CORRECTIONS

TDE-5.2336 TRA .5841 TC3 -.4197 BAU .5617
 RDE -.2656 RRA -.5428 RC3 .0692 FAU .01371
 FDE-1.5636 FRA .4084 FC3 -.1201 BSP 9943
 BDE 5.2404 BRA .7974 BC3 .4254 FSP -268

MID-COURSE EXECUTION ACCURACY

SGT 3164.9 SGR 479.3 SG3 85.3
 RRT -.0960 RRF -.0755 RTF .9823
 SGB 3201.0 R23 -.1728 R13 .9819
 SG1 3165.3 SG2 477.0 THA .85

ORBIT DETERMINATION ACCURACY

ST 3020.6 SR 200.8 SS 952.3
 CRT -.7317 CRS -.6883 CST -.9981
 LSA 3170.0 MSA 148.5 SSA 2.4
 EL1 3024.2 EL2 136.7 ALF 2.79

LAUNCH DATE FEB 27 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 363.838

RL 148.17 LAL -.00 LOL 158.23 VL 27.855 GAL -7.15 AZL 114.79 MCA 172.17 SMA 130.69 ECC .18190 INC24.7934 V1 30.072
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.707 GAP 4.23 AZP 65.41 TAL 216.00 TAP 28.18 RCA 106.92 APO 154.46 V2 34.798
 RC 121.206 GL -61.44 GP 79.53 ZAL 107.09 ZAP 100.03 ETS 59.13 ZAE 86.74 ETE 180.97 ZAC 69.10 ETC 210.56 CLP 163.43

PLANETOCENTRIC CONIC

C3 174.147 VHL 13.196 OLA -45.22 RAL 54.13 RAD 6570.9 VEL 17.189 PTH 2.94 VHP 16.454 DPA 56.65 RAP 289.53 ECC 3.8660
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.15 6 40 14 2095.10 7.98 50.38 316.12 134.66 7 15 9 1495.1 13.55 44.95
 126.85 14 20 28 682.77 8.00 300.92 316.13 134.66 14 31 51 82.8 13.57 295.49
 53.15 6 40 14 2095.10 7.98 50.38 316.12 134.66 7 15 9 1495.1 13.55 44.95
 126.85 14 20 28 682.77 8.00 300.92 316.13 134.66 14 31 51 82.8 13.57 295.49
 53.15 6 40 14 2095.10 7.98 50.38 316.12 134.66 7 15 9 1495.1 13.55 44.95
 126.85 14 20 28 682.77 8.00 300.92 316.13 134.66 14 31 51 82.8 13.57 295.49

DIFFERENTIAL CORRECTIONS

TDE-5.9504 TRA 1.7398 TC3 -.1334 BAU .3112
 RDE-3.8670 RRA .1486 RC3 -.0089 FAU .00520
 FDE-1.6280 FRA .5503 FC3 -.0258 BSP 10227
 BDE 7.0966 BRA 1.7462 BC3 .1337 FSP -213

MID-COURSE EXECUTION ACCURACY

SGT 2819.3 SGR 1681.6 SG3 67.7
 RRT .9374 RRF .9207 RTF .9977
 SGB 3282.7 R23 -.1318 R13 .9899
 SG1 3243.0 SG2 509.2 THA 30.03

ORBIT DETERMINATION ACCURACY

ST 2603.5 SR 1679.2 SS 1010.3
 CRT .9942 CRS .9919 CST -.9998
 LSA 3254.7 MSA 159.5 SSA 1.7
 EL1 3094.3 EL2 151.7 ALF 32.76

LAUNCH DATE FEB 27 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 369.320

RL 148.17 LAL -.00 LOL 158.23 VL 27.803 GAL -6.83 AZL 130.12 MCA 174.85 SMA 130.31 ECC .18063 INC40.1207 V1 30.072
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.673 GAP 4.35 AZP 49.99 TAL 214.32 TAP 29.16 RCA 106.77 APO 153.85 V2 34.803
 RC 123.581 GL -61.40 GP 74.09 ZAL 100.57 ZAP 96.65 ETS 144.47 ZAE 75.08 ETE 223.77 ZAC 59.91 ETC 254.25 CLP 114.98

PLANETOCENTRIC CONIC

C3 410.538 VHL 20.262 DLA -42.01 RAL 63.26 RAD 6572.1 VEL 23.062 PTH 3.28 VHP 25.482 DPA 49.74 RAP 274.60 ECC 7.7564
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.57 7 34 18 2159.44 2.47 50.94 330.50 131.95 8 10 17 1559.4 7.80 45.36
 122.43 14 39 16 841.21 2.49 309.93 330.51 131.95 14 53 17 241.2 7.81 304.35
 57.57 7 34 18 2159.44 2.47 50.94 330.50 131.95 8 10 17 1559.4 7.80 45.36
 122.43 14 39 16 841.21 2.49 309.93 330.51 131.95 14 53 17 241.2 7.81 304.35
 57.57 7 34 18 2159.44 2.47 50.94 330.50 131.95 8 10 17 1559.4 7.80 45.36
 122.43 14 39 16 841.21 2.49 309.93 330.51 131.95 14 53 17 241.2 7.81 304.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.1976 TRA 2.1991 TC3 -.0079 BAU .6378 SGT 903.4 SGR 3149.7 SG3 55.3 ST 421.6 SR 2866.9 SS 1200.4
 RO-10.0473 RRA 3.3527 RC3 .1159 FAU-.00966 RRT .7081 RRF .9896 RTF .8021 CRT .8756 CRS -.9985 CST -.9007
 FDE-1.8939 FRA .8950 FC3 .0204 BSP 9944 SGB 3276.7 R23 -.1028 R13 .9946 LSA 3129.6 MSA 208.2 SSA .5
 BOE10.1184 BRA 4.0096 BC3 .1162 FSP -171 SG1 3216.6 SG2 624.6 THA 78.06 EL1 2890.6 EL2 201.9 ALF 82.63

LAUNCH DATE FEB 27 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 373.788

RL 148.17 LAL -.00 LOL 158.23 VL 27.750 GAL -6.29 AZL 166.99 MCA 176.56 SMA 129.94 ECC .17737 INC76.9878 V1 30.072
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.639 GAP 4.18 AZP 13.03 TAL 211.88 TAP 28.44 RCA 106.89 APO 152.98 V2 34.808
 RC 125.948 GL -48.11 GP 53.79 ZAL 95.49 ZAP 93.60 ETS 169.33 ZAE 53.56 ETE 244.58 ZAC 40.65 ETC 282.02 CLP 96.09

PLANETOCENTRIC CONIC

C31303.402 VHL 36.103 OLA -26.93 RAL 68.00 RAD 6573.1 VEL 37.745 PTH 3.54 VHP 45.420 DPA 30.71 RAP 261.93 ECC22.4507
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 8 0 1825.67 -8.63 18.19 334.88 117.07 10 38 26 1225.7 -4.93 11.46
 90.00 12 43 24 1317.60 7.58 349.65 343.18 117.36 13 5 21 717.6 11.19 342.83
 100.00 10 55 42 1671.56 -12.53 4.83 332.84 117.36 11 23 34 1071.6 -8.77 358.06
 100.00 14 38 22 946.95 11.47 324.44 345.24 117.79 14 54 9 346.9 15.10 317.53
 110.00 11 9 24 1628.59 -19.97 357.49 328.76 118.34 11 36 32 1028.6 -16.03 350.59
 110.00 16 41 10 5850.72 18.87 277.31 349.38 119.05 18 18 41 5250.7 22.59 270.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 4.5383 TRA .7592 TC3 -.0666 BAU 3.4699 SGT 876.7 SGR 2754.0 SG3 49.4 ST 721.5 SR 1934.1 SS 1541.8
 RO-11.8559 RRA 8.3482 RC3 .1876 FAU-.05633 RRT -.7482 RRF .9989 RTF -.7164 CRT -.9586 CRS -.9997 CST .9519
 FDE-2.3949 FRA 1.8579 FC3 .0374 BSP 8586 SGB 2890.1 R23 -.0960 R13 .9954 LSA 2568.3 MSA 205.6 SSA .6
 BOE12.6948 BRA 8.3826 BC3 .1991 FSP -154 SG1 2834.3 SG2 565.2 THA 103.96 EL1 2055.2 EL2 193.4 ALF 109.86

LAUNCH DATE FEB 27 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 384.309

RL 148.17 LAL -.00 LOL 158.23 VL 27.696 GAL -7.00 AZL 35.31 MCA 184.14 SMA 129.56 ECC .18748 INC54.6889 V1 30.072
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.605 GAP 5.70 AZP 144.62 TAL 213.52 TAP 37.66 RCA 105.27 APO 153.85 V2 34.815
 RC 128.306 GL 56.81 GP -66.00 ZAL 98.12 ZAP 96.65 ETS 186.82 ZAE 70.66 ETE 110.62 ZAC 80.24 ETC 83.39 CLP 106.53

PLANETOCENTRIC CONIC

C3 718.604 VHL 26.807 DLA 70.45 RAL 12.02 RAD 6572.7 VEL 28.981 PTH 3.43 VHP 33.254 DPA -85.82 RAP 177.18 ECC12.8264
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.34 14 25 27 5065.48 -.73 247.00 281.77 19.55 15 49 52 4465.5 -8.27 244.72
 157.66 0 59 19 3309.47 -.72 96.40 281.75 19.55 1 54 28 2709.5 -8.26 94.12
 22.34 14 25 27 5065.48 -.73 247.00 281.77 19.55 15 49 52 4465.5 -8.27 244.72
 157.66 0 59 19 3309.47 -.72 96.40 281.75 19.55 1 54 28 2709.5 -8.26 94.12
 22.34 14 25 27 5065.48 -.73 247.00 281.77 19.55 15 49 52 4465.5 -8.27 244.72
 157.66 0 59 19 3309.47 -.72 96.40 281.75 19.55 1 54 28 2709.5 -8.26 94.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7654 TRA 1.2665 TC3 -.0657 BAU 1.8438 SGT 897.4 SGR 3230.3 SG3 52.6 ST 292.9 SR 2692.1 SS 1500.6
 RO-12.3994 RRA 2.4639 RC3 -.1803 FAU-.02500 RRT .7062 RRF -.9988 RTF -.6749 CRT .6956 CRS .9999 CST .6855
 FDE 2.4114 FRA -.4405 FC3 .0301 BSP 10362 SGB 3352.6 R23 -.0815 R13 -.9964 LSA 3088.7 MSA 211.4 SSA 1.3
 BOE12.4230 BRA 2.7704 BC3 .1919 FSP -172 SG1 3294.2 SG2 623.0 THA 78.48 EL1 2699.8 EL2 209.8 ALF 85.65

LAUNCH DATE FEB 27 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 389.444

RL 148.17 LAL -.00 LOL 158.23 VL 27.642 GAL -6.59 AZL 58.59 MCA 186.52 SMA 129.18 ECC .18565 INC31.4092 V1 30.072
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.572 GAP 5.71 AZP 121.24 TAL 211.57 TAP 38.09 RCA 105.20 APO 153.17 V2 34.821
 RC 130.653 GL 62.22 GP -76.11 ZAL 102.80 ZAP 101.20 ETS 222.47 ZAE 86.28 ETE 145.21 ZAC 93.83 ETC 120.21 CLP 144.02

PLANETOCENTRIC CONIC

C3 261.626 VHL 16.175 DLA 68.52 RAL 347.71 RAD 6571.5 VEL 19.569 PTH 3.11 VHP 19.887 DPA -75.77 RAP 68.26 ECC 5.3057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.58 12 53 16 4965.35 -6.67 243.84 255.08 21.63 14 16 1 4365.3 -14.09 241.22
 155.42 23 13 34 3221.80 -6.66 95.60 255.06 21.63 24 7 16 2621.8 -14.08 92.99
 24.58 12 53 16 4965.35 -6.67 243.84 255.08 21.63 14 16 1 4365.3 -14.09 241.22
 155.42 23 13 34 3221.80 -6.66 95.60 255.06 21.63 24 7 16 2621.8 -14.08 92.99
 24.58 12 53 16 4965.35 -6.67 243.84 255.08 21.63 14 16 1 4365.3 -14.09 241.22
 155.42 23 13 34 3221.80 -6.66 95.60 255.06 21.63 24 7 16 2621.8 -14.08 92.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 3.3627 TRA -.9919 TC3 -.0197 BAU .1781 SGT 1530.8 SGR 3331.1 SG3 63.8 ST 1225.4 SR 1668.5 SS 804.5
 ROE-3.9562 RRA 3.1201 RC3 -.0469 FAU .00260 RRT -.8933 RRF -.9784 RTF .9646 CRT -.9439 CRS .9838 CST -.9878
 FDE 1.2208 FRA -.6188 FC3 -.0086 BSP 11400 SGB 3666.0 R23 -.1279 R13 -.9907 LSA 2195.8 MSA 333.8 SSA 1.7
 BOE 5.1922 BRA 3.2740 BC3 .0509 FSP -207 SG1 3610.7 SG2 634.7 THA 113.07 EL1 2043.6 EL2 330.4 ALF 125.81

LAUNCH DATE FEB 27 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 395.058

RL 148.17 LAL -.00 LOL 158.23 VL 27.588 GAL -6.27 AZL 68.68 HCA 189.37 SMA 128.81 ECC .18508 INC21.3160 V1 30.072
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.539 GAP 5.85 AZP 111.06 TAL 209.90 TAP 39.27 RCA 104.97 APO 152.64 V2 34.829
 RC 132.989 GL 60.36 GP -73.56 ZAL 107.38 ZAP 106.44 ETS 270.40 ZAE 95.62 ETE 192.08 ZAC 101.32 ETC 168.27 CLP-179.81

PLANETOCENTRIC CONIC

C3 131.557 VHL 11.470 DLA 64.02 RAL 345.26 RAD 6570.4 VEL 15.903 PTH 2.81 VHP 14.010 DPA -65.98 RAP 57.23 ECC 3.1651
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.84 12 55 24 4836.74 -13.21 237.46 248.70 26.74 14 16 0 4236.7 -20.32 234.05
 150.16 22 51 54 3128.49 -13.20 95.05 248.68 26.74 23 44 2 2528.5 -20.31 91.64
 29.84 12 55 24 4836.74 -13.21 237.46 248.70 26.74 14 16 0 4236.7 -20.32 234.05
 150.16 22 51 54 3128.49 -13.20 95.05 248.68 26.74 23 44 2 2528.5 -20.31 91.64
 29.84 12 55 24 4836.74 -13.21 237.46 248.70 26.74 14 16 0 4236.7 -20.32 234.05
 150.16 22 51 54 3128.49 -13.20 95.05 248.68 26.74 23 44 2 2528.5 -20.31 91.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 3.1806 TRA-2.7960 TC3 -.2427 BAU .4301 SGT 3605.9 SGR 1245.7 SG3 80.0 ST 1854.7 SR 378.1 SS 655.9
 RDE -.1286 RRA 1.0891 RC3 .0298 FAU .01490 RRT -.9130 RRF -.8498 RTF .9893 CRT -.6539 CRS .5646 CST -.9936
 FDE .9862 FRA -.6590 FC3 -.0980 BSP 11882 SGB 3815.0 R23 -.1715 R13 -.9831 LSA 1981.4 MSA 295.2 SSA 2.1
 BOE 3.1832 BRA 3.0007 BC3 .2446 FSP -260 SG1 3784.1 SG2 484.2 THA 162.19 EL1 1871.5 EL2 283.5 ALF 172.23

LAUNCH DATE FEB 27 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 400.817

RL 148.17 LAL -.00 LOL 158.23 VL 27.533 GAL -5.98 AZL 74.01 HCA 192.38 SMA 128.43 ECC .18496 INC15.9920 V1 30.072
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.506 GAP 6.04 AZP 115.64 TAL 208.30 TAP 40.68 RCA 104.68 APO 152.18 V2 34.837
 RC 135.313 GL 56.58 GP -67.49 ZAL 111.28 ZAP 111.78 ETS 288.58 ZAE 102.38 ETE 208.66 ZAC 106.57 ETC 185.95 CLP-165.72

PLANETOCENTRIC CONIC

C3 81.702 VHL 9.039 DLA 59.91 RAL 348.20 RAD 6569.6 VEL 14.250 PTH 2.59 VHP 11.033 DPA -58.10 RAP 51.65 ECC 2.3446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.71 13 18 59 4715.90 -18.53 230.36 247.01 31.92 14 37 35 4115.9 -25.26 226.12
 145.29 22 51 47 3048.72 -18.52 93.72 246.99 31.92 23 42 36 2448.7 -25.25 89.47
 34.71 13 18 59 4715.90 -18.53 230.36 247.01 31.92 14 37 35 4115.9 -25.26 226.12
 145.29 22 51 47 3048.72 -18.52 93.72 246.99 31.92 23 42 36 2448.7 -25.25 89.47
 34.71 13 18 59 4715.90 -18.53 230.36 247.01 31.92 14 37 35 4115.9 -25.26 226.12
 145.29 22 51 47 3048.72 -18.52 93.72 246.99 31.92 23 42 36 2448.7 -25.25 89.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.4193 TRA-2.7073 TC3 -.5915 BAU .6483 SGT 3900.6 SGR 444.2 SG3 99.2 ST 1846.0 SR 380.8 SS 637.2
 RDE .5916 RRA .1746 RC3 -.0493 FAU .02370 RRT -.0492 RRF .1632 RTF .9734 CRT .7215 CRS -.8426 CST -.9808
 FDE .9736 FRA -.6760 FC3 -.2511 BSP 12274 SGB 3925.8 R23 -.2120 R13 -.9732 LSA 1969.7 MSA 281.1 SSA 2.7
 BOE 2.4906 BRA 2.7129 BC3 .5935 FSP -325 SG1 3900.7 SG2 443.6 THA 179.67 EL1 1866.7 EL2 260.8 ALF 8.63

LAUNCH DATE FEB 27 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 406.628

RL 148.17 LAL -.00 LOL 158.23 VL 27.479 GAL -5.69 AZL 77.26 HCA 195.46 SMA 128.06 ECC .18508 INC12.7400 V1 30.072
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.474 GAP 6.24 AZP 102.29 TAL 206.71 TAP 42.17 RCA 104.36 APO 151.76 V2 34.846
 RC 137.625 GL 52.51 GP -61.29 ZAL 114.38 ZAP 116.93 ETS 295.43 ZAE 107.70 ETE 213.39 ZAC 110.77 ETC 191.84 CLP-160.53

PLANETOCENTRIC CONIC

C3 57.759 VHL 7.600 DLA 56.33 RAL 352.22 RAD 6569.1 VEL 13.383 PTH 2.45 VHP 9.339 DPA -51.21 RAP 48.24 ECC 1.9506
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.03 13 46 22 4611.61 -22.32 223.28 246.36 36.82 15 3 14 4011.6 -28.63 218.25
 140.97 22 56 28 2988.62 -22.31 92.14 246.34 36.82 23 46 17 2388.6 -28.62 87.11
 39.03 13 46 22 4611.61 -22.32 223.28 246.36 36.82 15 3 14 4011.6 -28.63 218.25
 140.97 22 56 28 2988.62 -22.31 92.14 246.34 36.82 23 46 17 2388.6 -28.62 87.11
 39.03 13 46 22 4611.61 -22.32 223.28 246.36 36.82 15 3 14 4011.6 -28.63 218.25
 140.97 22 56 28 2988.62 -22.31 92.14 246.34 36.82 23 46 17 2388.6 -28.62 87.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 2.0312 TRA-2.4758 TC3 -.9769 BAU .7626 SGT 3985.6 SGR 551.5 SG3 118.9 ST 1835.0 SR 498.5 SS 643.2
 RDE .6602 RRA -.0661 RC3 -.1447 FAU .03103 RRT .6329 RRF .8035 RTF .9610 CRT .8633 CRS -.9561 CST -.9733
 FDE .9925 FRA -.6722 FC3 -.4652 BSP 12615 SGB 4023.6 R23 .2431 R13 .9634 LSA 1988.6 MSA 273.3 SSA 3.6
 BOE 2.1358 BRA 2.4767 BC3 .9876 FSP -392 SG1 4001.0 SG2 425.4 THA 5.06 EL1 1885.7 EL2 244.8 ALF 13.43

LAUNCH DATE FEB 27 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 412.462

RL 148.17 LAL -.00 LOL 158.23 VL 27.424 GAL -5.40 AZL 79.45 HCA 198.57 SMA 127.69 ECC .18538 INC10.5492 V1 30.072
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.442 GAP 6.44 AZP 100.01 TAL 205.13 TAP 43.69 RCA 104.01 APO 151.36 V2 34.855
 RC 139.923 GL 48.62 GP -55.56 ZAL 116.72 ZAP 121.76 ETS 298.84 ZAE 111.99 ETE 214.30 ZAC 114.37 ETC 193.97 CLP-158.57

PLANETOCENTRIC CONIC

C3 44.377 VHL 6.662 DLA 53.24 RAL 356.31 RAD 6568.7 VEL 12.874 PTH 2.35 VHP 8.303 DPA -45.05 RAP 46.12 ECC 1.7303
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.83 14 13 28 4523.13 -24.83 216.60 246.10 41.26 15 28 51 3923.1 -30.72 210.89
 137.17 23 2 0 2946.00 -24.82 90.68 246.08 41.25 23 51 6 2346.0 -30.70 84.97
 42.83 14 13 28 4523.13 -24.83 216.60 246.10 41.26 15 28 51 3923.1 -30.72 210.89
 137.17 23 2 0 2946.00 -24.82 90.68 246.08 41.25 23 51 6 2346.0 -30.70 84.97
 42.83 14 13 28 4523.13 -24.83 216.60 246.10 41.26 15 28 51 3923.1 -30.72 210.89
 137.17 23 2 0 2946.00 -24.82 90.68 246.08 41.25 23 51 6 2346.0 -30.70 84.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.8037 TRA-2.2800 TC3-1.3882 BAU .8343 SGT 4069.8 SGR 634.3 SG3 137.6 ST 1837.4 SR 531.7 SS 648.5
 RDE .6149 RRA -.1257 RC3 -.2251 FAU .03717 RRT .7621 RRF .9032 RTF .9513 CRT .8949 CRS -.9776 CST -.9687
 FDE .9992 FRA -.6466 FC3 -.7251 BSP 12973 SGB 4118.9 R23 .2639 R13 .9545 LSA 2002.1 MSA 265.7 SSA 4.5
 BOE 1.9056 BRA 2.2834 BC3 1.4063 FSP -458 SG1 4098.7 SG2 407.8 THA 6.84 EL1 1898.9 EL2 229.6 ALF 14.74

LAUNCH DATE FEB 27 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 418.302

RL 148.17 LAL -.00 LOL 158.23 VL 27.369 GAL -5.11 AZL 81.03 HCA 201.69 SMA 127.32 ECC .18584 INC 8.9690 V1 30.072
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.411 GAP 6.65 AZP 98.34 TAL 203.53 TAP 45.23 RCA 103.66 APO 150.98 V2 34.865
 RC 142.207 GL 45.05 GP -50.43 ZAL 118.34 ZAP 126.19 ETS 300.95 ZAE 115.48 ETE 213.68 ZAC 117.57 ETC 194.61 CLP-157.98

PLANETOCENTRIC CONIC

C3 36.058 VHL 6.005 DLA 50.59 RAL .25 RAD 6568.4 VEL 12.547 PTH 2.27 VHP 7.642 DPA -39.51 RAP 44.88 ECC 1.5934
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.15 14 39 20 4447.70 -26.43 210.48 246.15 45.15 15 53 27 3847.7 -31.92 204.23
 133.85 23 7 36 2916.63 -26.42 89.45 246.14 45.15 23 56 12 2316.6 -31.91 83.20
 46.15 14 39 20 4447.70 -26.43 210.48 246.15 45.15 15 53 27 3847.7 -31.92 204.23
 133.85 23 7 36 2916.63 -26.42 89.45 246.14 45.15 23 56 12 2316.6 -31.91 83.20
 46.15 14 39 20 4447.70 -26.43 210.48 246.15 45.15 15 53 27 3847.7 -31.92 204.23
 133.85 23 7 36 2916.63 -26.42 89.45 246.14 45.15 23 56 12 2316.6 -31.91 83.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6422 TRA-2.1208 TC3-1.8234 BAU .8899 SGT 4172.5 SGR 659.7 SG3 154.4 ST 1836.8 SR 528.6 SS 644.7
 RDE .5503 RRA -.1328 RC3 -.2881 FAU .04230 RRT .8052 RRF .9292 RTF .9442 CRT .9071 CRS -.9854 CST -.9654
 FDE .9817 FRA -.6058 FC3-1.0156 BSP 13525 SGB 4224.3 R23 .2736 R13 .9475 LSA 2000.6 MSA 257.7 SSA 5.6
 BDE 1.7319 BRA 2.1249 BC3 1.8461 FSP -528 SG1 4206.5 SG2 388.0 THA 7.32 EL1 1899.2 EL2 215.2 ALF 14.82

LAUNCH DATE FEB 27 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 424.148

RL 148.17 LAL -.00 LOL 158.23 VL 27.314 GAL -4.81 AZL 82.23 HCA 204.84 SMA 126.95 ECC .18642 INC 7.7704 V1 30.072
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.381 GAP 6.87 AZP 97.06 TAL 201.92 TAP 46.76 RCA 103.29 APO 150.62 V2 34.875
 RC 144.478 GL 41.82 GP -45.89 ZAL 119.32 ZAP 130.21 ETS 302.47 ZAE 118.30 ETE 212.38 ZAC 120.49 ETC 194.59 CLP-158.06

PLANETOCENTRIC CONIC

C3 30.461 VHL 5.519 DLA 48.34 RAL 4.04 RAD 6568.2 VEL 12.322 PTH 2.22 VHP 7.211 DPA -34.55 RAP 44.28 ECC 1.5013
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.03 15 3 54 4382.57 -27.43 204.99 246.55 48.50 16 16 56 3782.6 -32.55 198.30
 130.97 23 13 16 2896.75 -27.42 88.51 246.53 48.49 24 1 33 2296.7 -32.54 81.83
 49.03 15 3 54 4382.57 -27.43 204.99 246.55 48.50 16 16 56 3782.6 -32.55 198.30
 130.97 23 13 16 2896.75 -27.42 88.51 246.53 48.49 24 1 33 2296.7 -32.54 81.83
 49.03 15 3 54 4382.57 -27.43 204.99 246.55 48.50 16 16 56 3782.6 -32.55 198.30
 130.97 23 13 16 2896.75 -27.42 88.51 246.53 48.49 24 1 33 2296.7 -32.54 81.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.5607 TRA-1.9409 TC3-2.2214 BAU .9137 SGT 4222.0 SGR 649.6 SG3 165.1 ST 1859.4 SR 525.2 SS 650.5
 RDE .5034 RRA -.1078 RC3 -.3145 FAU .04476 RRT .8051 RRF .9292 RTF .9337 CRT .9150 CRS -.9903 CST -.9619
 FDE .9774 FRA -.5172 FC3-1.2720 BSP 13124 SGB 4271.7 R23 .2886 R13 .9370 LSA 2022.7 MSA 255.3 SSA 6.6
 BDE 1.6399 BRA 1.9439 BC3 2.2436 FSP -526 SG1 4254.5 SG2 382.3 THA 7.12 EL1 1921.2 EL2 205.1 ALF 14.66

LAUNCH DATE FEB 27 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 429.987

RL 148.17 LAL -.00 LOL 158.23 VL 27.259 GAL -4.50 AZL 83.17 HCA 207.99 SMA 126.59 ECC .18715 INC 6.8257 V1 30.072
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.351 GAP 7.08 AZP 96.03 TAL 200.30 TAP 48.28 RCA 102.90 APO 150.28 V2 34.885
 RC 146.734 GL 38.89 GP -41.90 ZAL 119.74 ZAP 133.82 ETS 303.66 ZAE 120.57 ETE 210.79 ZAC 123.21 ETC 194.25 CLP-158.49

PLANETOCENTRIC CONIC

C3 26.468 VHL 5.145 DLA 46.42 RAL 7.72 RAD 6568.1 VEL 12.159 PTH 2.18 VHP 6.930 DPA -30.10 RAP 44.16 ECC 1.4356
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.54 15 27 21 4325.61 -28.04 200.08 247.28 51.36 16 39 26 3725.6 -32.84 193.07
 128.46 23 19 9 2883.57 -28.03 87.82 247.27 51.35 24 7 13 2283.6 -32.83 80.80
 51.54 15 27 21 4325.61 -28.04 200.08 247.28 51.36 16 39 26 3725.6 -32.84 193.07
 128.46 23 19 9 2883.57 -28.03 87.82 247.27 51.35 24 7 13 2283.6 -32.83 80.80
 51.54 15 27 21 4325.61 -28.04 200.08 247.28 51.36 16 39 26 3725.6 -32.84 193.07
 128.46 23 19 9 2883.57 -28.03 87.82 247.27 51.35 24 7 13 2283.6 -32.83 80.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4709 TRA-1.8052 TC3-2.6641 BAU .9504 SGT 4324.6 SGR 633.4 SG3 175.8 ST 1858.9 SR 507.6 SS 637.3
 RDE .4539 RRA -.0921 RC3 -.3415 FAU .04735 RRT .8124 RRF .9259 RTF .9286 CRT .9199 CRS -.9929 CST -.9595
 FDE .9349 FRA -.4456 FC3-1.5489 BSP 13594 SGB 4370.8 R23 .2846 R13 .9316 LSA 2014.4 MSA 248.0 SSA 7.9
 BDE 1.5393 BRA 1.8075 BC3 2.6859 FSP -571 SG1 4355.4 SG2 366.7 THA 6.83 EL1 1917.3 EL2 193.0 ALF 14.25

LAUNCH DATE FEB 27 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 435.822

RL 148.17 LAL -.00 LOL 158.23 VL 27.205 GAL -4.19 AZL 83.94 HCA 211.14 SMA 126.23 ECC .18801 INC 6.0580 V1 30.072
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.322 GAP 7.30 AZP 95.19 TAL 198.66 TAP 49.80 RCA 102.50 APO 149.97 V2 34.897
 RC 148.977 GL 36.22 GP -38.41 ZAL 119.66 ZAP 137.07 ETS 304.64 ZAE 122.41 ETE 209.09 ZAC 125.79 ETC 193.76 CLP-159.13

PLANETOCENTRIC CONIC

C3 23.485 VHL 4.846 DLA 44.79 RAL 11.34 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 6.751 DPA -26.11 RAP 44.42 ECC 1.3865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.72 15 49 51 4275.36 -28.40 195.72 248.34 53.78 17 1 6 3675.4 -32.91 188.45
 126.28 23 25 31 2874.95 -28.39 87.33 248.33 53.78 24 13 26 2275.0 -32.90 80.06
 53.72 15 49 51 4275.36 -28.40 195.72 248.34 53.78 17 1 6 3675.4 -32.91 188.45
 126.28 23 25 31 2874.95 -28.39 87.33 248.33 53.78 24 13 26 2275.0 -32.90 80.06
 53.72 15 49 51 4275.36 -28.40 195.72 248.34 53.78 17 1 6 3675.4 -32.91 188.45
 126.28 23 25 31 2874.95 -28.39 87.33 248.33 53.78 24 13 26 2275.0 -32.90 80.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4039 TRA-1.6695 TC3-3.1043 BAU .9810 SGT 4420.8 SGR 612.4 SG3 183.5 ST 1860.0 SR 492.3 SS 622.3
 RDE .4151 RRA -.0750 RC3 -.3552 FAU .04882 RRT .8119 RRF .9160 RTF .9240 CRT .9248 CRS -.9951 CST -.9571
 FDE .8881 FRA -.3638 FC3-1.7997 BSP 13957 SGB 4463.0 R23 .2757 R13 .9265 LSA 2007.7 MSA 241.2 SSA 9.3
 BDE 1.4640 BRA 1.6712 BC3 3.1245 FSP -601 SG1 4448.8 SG2 355.2 THA 6.46 EL1 1915.4 EL2 181.9 ALF 13.88

LAUNCH DATE FEB 27 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 441.651

RL 148.17 LAL -.00 LOL 158.23 VL 27.151 GAL -3.86 AZL 84.58 HCA 214.31 SMA 125.88 ECC .18902 INC 5.4185 V1 30.072
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.293 GAP 7.52 AZP 94.48 TAP 197.01 TAP 51.31 RCA 102.09 APO 149.68 V2 34.908
 RC 151.204 GL 33.77 GP -35.35 ZAL 119.13 ZAP 139.97 ETS 305.44 ZAE 123.89 ETE 207.41 ZAC 128.26 ETC 193.21 CLP-159.87

PLANETOCENTRIC CONIC

C3 21.177 VHL 4.602 DLA 43.40 RAL 14.94 RAD 6567.9 VEL 11.940 PTH 2.12 VHP 6.643 DPA -22.52 RAP 44.97 ECC 1.3485
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.62 16 11 39 4230.66 -28.61 191.83 249.74 55.85 17 22 10 3630.7 -32.87 184.37
 124.38 23 32 29 2869.49 -28.60 87.00 249.73 55.84 24 20 18 2269.5 -32.86 79.54
 55.62 16 11 39 4230.66 -28.61 191.83 249.74 55.85 17 22 10 3630.7 -32.87 184.37
 124.38 23 32 29 2869.49 -28.60 87.00 249.73 55.84 24 20 18 2269.5 -32.86 79.54
 55.62 16 11 39 4230.66 -28.61 191.83 249.74 55.85 17 22 10 3630.7 -32.87 184.37
 124.38 23 32 29 2869.49 -28.60 87.00 249.73 55.84 24 20 18 2269.5 -32.86 79.54

DIFFERENTIAL CORRECTIONS

TDE 1.3542 TRA-1.5317 TC3-3.5402 BAU 1.0074
 RDE .3852 RRA -.0586 RC3 -.3594 FAU .04936
 FDE .8400 FRA -.2764 FC3-2.0180 BSP 14246
 BOE 1.4079 BRA 1.5328 BC3 3.5584 FSP -617

MID-COURSE EXECUTION ACCURACY

SGT 4511.0 SGR 591.2 SG3 188.7
 RRT .8062 RRF .9013 RTF .9196
 SGB 4549.6 R23 .2627 R13 .9218
 SGI 4536.3 S22 347.9 THA 6.07

ORBIT DETERMINATION ACCURACY

ST 1863.5 SR 480.7 SS 606.6
 CRT .9304 CRS -.9969 CST -.9549
 LSA 2004.1 MSA 234.3 SSA 10.8
 EL1 1916.8 EL2 171.3 ALF 13.61

LAUNCH DATE FEB 27 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 447.471

RL 148.17 LAL -.00 LOL 158.23 VL 27.097 GAL -3.53 AZL 85.13 HCA 217.48 SMA 125.53 ECC .19016 INC 4.8746 V1 30.072
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.265 GAP 7.74 AZP 93.87 TAP 195.34 TAP 52.82 RCA 101.66 APO 149.41 V2 34.920
 RC 153.416 GL 31.50 GP -32.68 ZAL 118.20 ZAP 142.59 ETS 306.10 ZAE 125.08 ETE 205.81 ZAC 130.66 ETC 192.66 CLP-160.68

PLANETOCENTRIC CONIC

C3 19.343 VHL 4.398 DLA 42.21 RAL 18.58 RAD 6567.8 VEL 11.863 PTH 2.10 VHP 6.587 DPA -19.28 RAP 45.77 ECC 1.3183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.28 16 32 58 4190.64 -28.71 188.36 251.45 57.62 17 42 49 3590.6 -32.76 180.75
 122.72 23 40 10 2866.31 -28.70 86.80 251.44 57.61 24 27 56 2266.3 -32.75 79.18
 57.28 16 32 58 4190.64 -28.71 188.36 251.45 57.62 17 42 49 3590.6 -32.76 180.75
 122.72 23 40 10 2866.31 -28.70 86.80 251.44 57.61 24 27 56 2266.3 -32.75 79.18
 57.28 16 32 58 4190.64 -28.71 188.36 251.45 57.62 17 42 49 3590.6 -32.76 180.75
 122.72 23 40 10 2866.31 -28.70 86.80 251.44 57.61 24 27 56 2266.3 -32.75 79.18

DIFFERENTIAL CORRECTIONS

TDE 1.3138 TRA-1.3933 TC3-3.9773 BAU 1.0327
 RDE .3617 RRA -.0444 RC3 -.3590 FAU .04933
 FDE .7894 FRA -.1895 FC3-2.2077 BSP 14557
 BOE 1.3627 BRA 1.3940 BC3 3.9935 FSP -629

MID-COURSE EXECUTION ACCURACY

SGT 4601.6 SGR 572.6 SG3 192.0
 RRT .7981 RRF .8831 RTF .9162
 SGB 4637.1 R23 .2453 R13 .9181
 SGI 4624.4 S22 343.3 THA 5.70

ORBIT DETERMINATION ACCURACY

ST 1865.8 SR 471.9 SS 589.0
 CRT .9368 CRS -.9982 CST -.9528
 LSA 1999.8 MSA 226.8 SSA 12.4
 EL1 1917.8 EL2 160.7 ALF 13.42

LAUNCH DATE FEB 27 1969

FLIGHT TIME 154.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 453.284

RL 148.17 LAL -.00 LOL 158.23 VL 27.043 GAL -3.18 AZL 85.60 HCA 220.65 SMA 125.19 ECC .19146 INC 4.4035 V1 30.072
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.237 GAP 7.96 AZP 93.34 TAP 193.66 TAP 54.31 RCA 101.22 APO 149.16 V2 34.932
 RC 155.612 GL 29.38 GP -30.33 ZAL 116.91 ZAP 144.95 ETS 306.61 ZAE 126.06 ETE 204.30 ZAC 133.01 ETC 192.11 CLP-161.52

PLANETOCENTRIC CONIC

C3 17.860 VHL 4.226 DLA 41.18 RAL 22.28 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 6.570 DPA -16.35 RAP 46.77 ECC 1.2939
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.75 16 54 2 4154.60 -28.75 185.25 253.46 59.14 18 3 16 3554.6 -32.60 177.52
 121.25 23 48 38 2864.89 -28.74 86.70 253.46 59.13 24 36 23 2264.9 -32.59 78.96
 58.75 16 54 2 4154.60 -28.75 185.25 253.46 59.14 18 3 16 3554.6 -32.60 177.52
 121.25 23 48 38 2864.89 -28.74 86.70 253.46 59.13 24 36 23 2264.9 -32.59 78.96
 58.75 16 54 2 4154.60 -28.75 185.25 253.46 59.14 18 3 16 3554.6 -32.60 177.52
 121.25 23 48 38 2864.89 -28.74 86.70 253.46 59.13 24 36 23 2264.9 -32.59 78.96

DIFFERENTIAL CORRECTIONS

TDE 1.2890 TRA-1.2473 TC3-4.4007 BAU 1.0541
 RDE .3441 RRA -.0310 RC3 -.3531 FAU .04862
 FDE .7412 FRA -.1004 FC3-2.3567 BSP 14765
 BOE 1.3303 BRA 1.2477 BC3 4.4148 FSP -628

MID-COURSE EXECUTION ACCURACY

SGT 4681.7 SGR 556.6 SG3 193.4
 RRT .7861 RRF .8616 RTF .9128
 SGB 4714.7 R23 .2267 R13 .9144
 SGI 4702.2 S22 342.6 THA 5.37

ORBIT DETERMINATION ACCURACY

ST 1871.3 SR 466.9 SS 572.3
 CRT .9443 CRS -.9990 CST -.9509
 LSA 1999.8 MSA 219.1 SSA 14.1
 EL1 1922.9 EL2 149.6 ALF 13.34

LAUNCH DATE FEB 27 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 459.086

RL 148.17 LAL -.00 LOL 158.23 VL 26.990 GAL -2.82 AZL 86.01 HCA 223.83 SMA 124.85 ECC .19291 INC 3.9894 V1 30.072
 RP 108.45 LAP -2.76 LOP 19.99 VP 37.210 GAP 8.19 AZP 92.88 TAP 191.98 TAP 55.80 RCA 100.77 APO 148.94 V2 34.945
 RC 157.792 GL 27.37 GP -28.26 ZAL 115.28 ZAP 147.09 ETS 306.99 ZAE 126.85 ETE 202.91 ZAC 135.33 ETC 191.59 CLP-162.39

PLANETOCENTRIC CONIC

C3 16.647 VHL 4.080 DLA 40.27 RAL 26.07 RAD 6567.7 VEL 11.749 PTH 2.07 VHP 6.583 DPA -13.68 RAP 47.93 ECC 1.2740
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.08 17 15 3 4121.90 -28.73 182.44 255.78 60.46 18 23 44 3521.9 -32.42 174.61
 119.92 0 1 47 2865.09 -28.71 86.70 255.77 60.45 0 49 33 2265.1 -32.41 78.87
 60.08 17 15 3 4121.90 -28.73 182.44 255.78 60.46 18 23 44 3521.9 -32.42 174.61
 119.92 0 1 47 2865.09 -28.71 86.70 255.77 60.45 0 49 33 2265.1 -32.41 78.87
 60.08 17 15 3 4121.90 -28.73 182.44 255.78 60.46 18 23 44 3521.9 -32.42 174.61
 119.92 0 1 47 2865.09 -28.71 86.70 255.77 60.45 0 49 33 2265.1 -32.41 78.87

DIFFERENTIAL CORRECTIONS

TDE 1.2571 TRA-1.1009 TC3-4.8255 BAU 1.0767
 RDE .3298 RRA -.0198 RC3 -.3477 FAU .04771
 FDE .6903 FRA -.0172 FC3-2.4814 BSP 15064
 BOE 1.2997 BRA 1.1010 BC3 4.8380 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 4767.3 SGR 544.4 SG3 194.0
 RRT .7740 RRF .8384 RTF .9108
 SGB 4798.3 R23 .2049 R13 .9121
 SGI 4786.0 S22 343.3 THA 5.08

ORBIT DETERMINATION ACCURACY

ST 1870.8 SR 463.4 SS 552.5
 CRT .9520 CRS -.9989 CST -.9489
 LSA 1993.8 MSA 210.4 SSA 16.0
 EL1 1922.4 EL2 138.0 ALF 13.34

LAUNCH DATE FEB 27 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 464.879

RL 148.17 LAL -.00 LOL 158.23 VL 26.937 GAL -2.46 AZL 86.38 HCA 227.01 SMA 124.52 ECC .19454 INC 3.6203 V1 30.072
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.184 GAP 8.42 AZP 92.47 TAL 190.28 TAP 57.29 RCA 100.29 APO 148.74 V2 34.957
 RC 159.953 GL 25.44 GP -26.43 ZAL 113.34 ZAP 149.03 ETS 307.23 ZAE 127.51 ETE 201.64 ZAC 137.63 ETC 191.10 CLP-163.25

PLANETOCENTRIC CONIC

C3 15.651 VHL 3.956 DLA 39.45 RAL 29.97 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 6.619 DPA -11.24 RAP 49.25 ECC 1.2576
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.29 17 36 13 4092.01 -28.65 179.86 258.39 61.63 18 44 25 3492.0 -32.20 171.96
 118.71 0 11 45 2866.88 -28.64 86.80 258.38 61.61 0 59 32 2266.9 -32.19 78.90
 61.29 17 36 13 4092.01 -28.65 179.86 258.39 61.63 18 44 25 3492.0 -32.20 171.96
 118.71 0 11 45 2866.88 -28.64 86.80 258.38 61.61 0 59 32 2266.9 -32.19 78.90
 61.29 17 36 13 4092.01 -28.65 179.86 258.39 61.63 18 44 25 3492.0 -32.20 171.96
 118.71 0 11 45 2866.88 -28.64 86.80 258.38 61.61 0 59 32 2266.9 -32.19 78.90

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.2324 TRA -.9480 TC3-5.2356 BAU 1.0978 SGT 4848.5 SGR 535.1 SG3 193.5 ST 1867.0 SR 461.8 SS 531.6
 ROE .3188 RRA -.0093 RC3 -.3410 FAU .04650 RRT .7605 RRF .8137 RTF .9093 CRT .9602 CRS -.9976 CST -.9466
 FDE .6399 FRA .0635 FC3-2.5722 BSP 15342 SGB 4877.9 R23 .1827 R13 .9104 LSA 1985.1 MSA 201.1 SSA 18.1
 BOE 1.2729 BRA .9480 BC3 5.2467 FSP -629 SG1 4865.6 SG2 346.2 THA 4.82 EL1 1919.2 EL2 125.5 ALF 13.42

LAUNCH DATE FEB 27 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 470.660

RL 148.17 LAL -.00 LOL 158.23 VL 26.885 GAL -2.08 AZL 86.71 HCA 230.19 SMA 124.19 ECC .19633 INC 3.2874 V1 30.072
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.158 GAP 8.66 AZP 92.11 TAL 188.57 TAP 58.76 RCA 99.81 APO 148.57 V2 34.970
 RC 162.097 GL 23.58 GP -24.82 ZAL 111.11 ZAP 150.81 ETS 307.33 ZAE 128.05 ETE 200.49 ZAC 139.92 ETC 190.63 CLP-164.12

PLANETOCENTRIC CONIC

C3 14.837 VHL 3.852 DLA 38.70 RAL 33.99 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 6.676 DPA -9.01 RAP 50.69 ECC 1.2442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.44 17 57 45 4064.33 -28.52 177.48 261.28 62.66 19 5 29 3464.3 -31.94 169.52
 117.56 0 22 19 2870.58 -28.51 87.04 261.28 62.65 1 10 10 2270.6 -31.93 79.08
 62.44 17 57 45 4064.33 -28.52 177.48 261.28 62.66 19 5 29 3464.3 -31.94 169.52
 117.56 0 22 19 2870.58 -28.51 87.04 261.28 62.65 1 10 10 2270.6 -31.93 79.08
 62.44 17 57 45 4064.33 -28.52 177.48 261.28 62.66 19 5 29 3464.3 -31.94 169.52
 117.56 0 22 19 2870.58 -28.51 87.04 261.28 62.65 1 10 10 2270.6 -31.93 79.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.2073 TRA -.7891 TC3-5.6285 BAU 1.1184 SGT 4928.3 SGR 528.5 SG3 192.3 ST 1856.2 SR 461.5 SS 509.0
 ROE .3102 RRA .0007 RC3 -.3345 FAU .04512 RRT .7464 RRF .7885 RTF .9086 CRT .9683 CRS -.9945 CST -.9438
 FDE .5894 FRA .1405 FC3-2.6329 BSP 15633 SGB 4956.6 R23 .1606 R13 .9095 LSA 1969.9 MSA 191.4 SSA 20.4
 BOE 1.2465 BRA .7891 BC3 5.6384 FSP -626 SG1 4944.1 SG2 350.6 THA 4.60 EL1 1909.4 EL2 112.0 ALF 13.58

LAUNCH DATE FEB 27 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 476.429

RL 148.17 LAL -.00 LOL 158.23 VL 26.833 GAL -1.69 AZL 87.02 HCA 233.38 SMA 123.86 ECC .19831 INC 2.9837 V1 30.072
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.133 GAP 8.91 AZP 91.78 TAL 186.85 TAP 60.23 RCA 99.30 APO 148.43 V2 34.983
 RC 164.221 GL 21.76 GP -23.38 ZAL 108.62 ZAP 152.44 ETS 307.29 ZAE 128.51 ETE 199.45 ZAC 142.21 ETC 190.19 CLP-164.99

PLANETOCENTRIC CONIC

C3 14.182 VHL 3.766 DLA 37.97 RAL 38.15 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 6.749 DPA -6.95 RAP 52.24 ECC 1.2334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.57 18 19 52 4038.26 -28.33 175.21 264.46 63.59 19 27 11 3438.3 -31.63 167.21
 116.43 0 33 20 2876.62 -28.32 87.43 264.45 63.58 1 21 16 2276.6 -31.62 79.43
 63.57 18 19 52 4038.26 -28.33 175.21 264.46 63.59 19 27 11 3438.3 -31.63 167.21
 116.43 0 33 20 2876.62 -28.32 87.43 264.45 63.58 1 21 16 2276.6 -31.62 79.43
 63.57 18 19 52 4038.26 -28.33 175.21 264.46 63.59 19 27 11 3438.3 -31.63 167.21
 116.43 0 33 20 2876.62 -28.32 87.43 264.45 63.58 1 21 16 2276.6 -31.62 79.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1838 TRA -.6195 TC3-5.9810 BAU 1.1357 SGT 4996.6 SGR 524.1 SG3 190.0 ST 1841.3 SR 462.9 SS 487.2
 ROE .3042 RRA .0111 RC3 -.3255 FAU .04341 RRT .7302 RRF .7629 RTF .9076 CRT .9763 CRS -.9890 CST -.9404
 FDE .5415 FRA .2169 FC3-2.6502 BSP 15824 SGB 5024.1 R23 .1417 R13 .9084 LSA 1951.5 MSA 182.0 SSA 22.9
 BOE 1.2222 BRA .6196 BC3 5.9899 FSP -615 SG1 5011.4 SG2 357.1 THA 4.40 EL1 1896.1 EL2 97.2 ALF 13.83

LAUNCH DATE FEB 27 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 482.185

RL 148.17 LAL -.00 LOL 158.23 VL 26.781 GAL -1.28 AZL 87.30 HCA 236.57 SMA 123.54 ECC .20049 INC 2.7040 V1 30.072
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.108 GAP 9.16 AZP 91.49 TAL 185.13 TAP 61.70 RCA 98.77 APO 148.31 V2 34.996
 RC 166.326 CL 19.97 GP -22.10 ZAL 105.88 ZAP 153.95 ETS 307.11 ZAE 128.91 ETE 198.50 ZAC 144.51 ETC 189.76 CLP-165.85

PLANETOCENTRIC CONIC

C3 13.672 VHL 3.698 DLA 37.24 RAL 42.42 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 6.837 DPA -5.05 RAP 53.89 ECC 1.2250
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.72 18 42 47 4013.15 -28.07 173.01 267.90 64.45 19 49 40 3413.2 -31.26 164.99
 115.28 0 44 32 2885.64 -28.06 88.02 267.89 64.43 1 32 38 2285.6 -31.25 79.99
 64.72 18 42 47 4013.15 -28.07 173.01 267.90 64.45 19 49 40 3413.2 -31.26 164.99
 115.28 0 44 32 2885.64 -28.06 88.02 267.89 64.43 1 32 38 2285.6 -31.25 79.99
 64.72 18 42 47 4013.15 -28.07 173.01 267.90 64.45 19 49 40 3413.2 -31.26 164.99
 115.28 0 44 32 2885.64 -28.06 88.02 267.89 64.43 1 32 38 2285.6 -31.25 79.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1529 TRA -.4456 TC3-6.3067 BAU 1.1542 SGT 5069.1 SGR 521.7 SG3 187.6 ST 1810.8 SR 463.8 SS 461.7
 ROE .2992 RRA .0209 RC3 -.3186 FAU .04177 RRT .7154 RRF .7384 RTF .9081 CRT .9835 CRS -.9802 CST -.9358
 FDE .4913 FRA .2869 FC3-2.6446 BSP 16084 SGB 5095.9 R23 .1222 R13 .9087 LSA 1917.5 MSA 172.4 SSA 25.8
 BOE 1.1911 BRA .4461 BC3 6.3147 FSP -609 SG1 5082.9 SG2 363.5 THA 4.23 EL1 1867.5 EL2 81.3 ALF 14.17

LAUNCH DATE FEB 27 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 487.927

RL 148.17 LAL -1.00 LOL 158.23 VL 26.730 GAL -1.87 AZL 87.56 HCA 239.76 SMA 123.23 ECC .20288 INC 2.4440 V1 30.072
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.083 GAP 9.42 AZP 91.23 TAL 183.40 TAP 63.16 RCA 98.23 APO 148.23 V2 35.010
 RC 168.410 GL 18.21 GP -20.96 ZAL 102.92 ZAP 155.34 ETS 306.78 ZAE 129.25 ETE 197.65 ZAC 146.80 ETC 189.34 CLP-166.70

PLANETOCENTRIC CONIC

C3 13.297 VHL 3.647 DLA 36.50 RAL 46.82 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 6.937 DPA -3.30 RAP 55.63 ECC 1.2188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.94 19 6 42 3988.28 -27.72 170.82 271.59 65.24 20 13 10 3388.3 -30.81 162.77
 114.06 0 55 41 2898.42 -27.71 88.86 271.58 65.23 1 43 59 2298.4 -30.80 80.82
 65.94 19 6 42 3988.28 -27.72 170.82 271.59 65.24 20 13 10 3388.3 -30.81 162.77
 114.06 0 55 41 2898.42 -27.71 88.86 271.58 65.23 1 43 59 2298.4 -30.80 80.82
 65.94 19 6 42 3988.28 -27.72 170.82 271.59 65.24 20 13 10 3388.3 -30.81 162.77
 114.06 0 55 41 2898.42 -27.71 88.86 271.58 65.23 1 43 59 2298.4 -30.80 80.82

DIFFERENTIAL CORRECTIONS

TDE 1.1151 TRA -.2635 TC3-6.5859 BAU 1.1721
 RDE .2954 RRA .0313 RC3 -.3115 FAU .04004
 FDE .4405 FRA .3546 FC3-2.6070 BSP 16355
 BOE 1.1536 BRA .2653 BC3 6.5933 FSP -601

MID-COURSE EXECUTION ACCURACY

SGT 5138.7 SGR 520.4 SG3 184.8
 RRT .7004 RRF .7148 RTF .9088
 SGB 5164.9 R23 .1050 R13 .9094
 SG1 5151.6 SG2 370.5 THA 4.08

ORBIT DETERMINATION ACCURACY

ST 1764.8 SR 464.6 SS 434.5
 CRT .9897 CRS -.9664 CST -.9292
 LSA 1868.6 MSA 164.0 SSA 28.9
 EL1 1823.8 EL2 64.5 ALF 14.62

LAUNCH DATE FEB 27 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 493.653

RL 148.17 LAL -1.00 LOL 158.23 VL 26.679 GAL -1.43 AZL 87.80 HCA 242.96 SMA 122.92 ECC .20550 INC 2.2001 V1 30.072
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.059 GAP 9.68 AZP 91.00 TAL 181.67 TAP 64.63 RCA 97.66 APO 148.18 V2 35.023
 RC 170.474 GL 16.47 GP -19.93 ZAL 99.77 ZAP 156.63 ETS 306.30 ZAE 129.54 ETE 196.88 ZAC 149.11 ETC 188.93 CLP-167.54

PLANETOCENTRIC CONIC

C3 13.054 VHL 3.613 DLA 35.71 RAL 51.30 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 7.050 DPA -1.67 RAP 57.45 ECC 1.2148
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.26 19 31 47 3962.85 -27.27 168.55 275.51 65.99 20 37 50 3362.8 -30.27 160.50
 112.74 1 6 21 2915.87 -27.26 90.03 275.50 65.98 1 54 57 2315.9 -30.26 81.99
 67.26 19 31 47 3962.85 -27.27 168.55 275.51 65.99 20 37 50 3362.8 -30.27 160.50
 112.74 1 6 21 2915.87 -27.26 90.03 275.50 65.98 1 54 57 2315.9 -30.26 81.99
 67.26 19 31 47 3962.85 -27.27 168.55 275.51 65.99 20 37 50 3362.8 -30.27 160.50
 112.74 1 6 21 2915.87 -27.26 90.03 275.50 65.98 1 54 57 2315.9 -30.26 81.99

DIFFERENTIAL CORRECTIONS

TDE 1.0675 TRA -.0748 TC3-6.8098 BAU 1.1897
 RDE .2923 RRA .0416 RC3 -.3054 FAU .03837
 FDE .3871 FRA .4165 FC3-2.5448 BSP 16653
 BOE 1.1068 BRA .0856 BC3 6.8166 FSP -597

MID-COURSE EXECUTION ACCURACY

SGT 5205.9 SGR 519.7 SG3 181.6
 RRT .6870 RRF .6922 RTF .9109
 SGB 5231.8 R23 .0870 R13 .9113
 SG1 5218.2 SG2 376.8 THA 3.94

ORBIT DETERMINATION ACCURACY

ST 1699.9 SR 464.2 SS 403.8
 CRT .9943 CRS -.9452 CST -.9200
 LSA 1800.7 MSA 156.9 SSA 32.3
 EL1 1761.5 EL2 47.8 ALF 15.20

LAUNCH DATE FEB 27 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 499.361

RL 148.17 LAL -1.00 LOL 158.23 VL 26.629 GAL .02 AZL 88.03 HCA 246.16 SMA 122.62 ECC .20834 INC 1.9695 V1 30.072
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.036 GAP 9.96 AZP 90.80 TAL 179.93 TAP 66.09 RCA 97.07 APO 148.17 V2 35.036
 RC 172.518 GL 14.74 GP -19.01 ZAL 96.45 ZAP 157.83 ETS 305.67 ZAE 129.80 ETE 196.18 ZAC 151.42 ETC 188.51 CLP-168.37

PLANETOCENTRIC CONIC

C3 12.942 VHL 3.598 DLA 34.87 RAL 55.85 RAD 6567.5 VEL 11.590 PTH 2.03 VHP 7.175 DPA -.16 RAP 59.34 ECC 1.2130
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.74 19 58 21 3935.74 -26.72 166.13 279.63 66.71 21 3 56 3335.7 -29.63 158.09
 111.26 1 16 6 2939.26 -26.70 91.61 279.62 66.69 2 5 6 2339.3 -29.62 83.58
 68.74 19 58 21 3935.74 -26.72 166.13 279.63 66.71 21 3 56 3335.7 -29.63 158.09
 111.26 1 16 6 2939.26 -26.70 91.61 279.62 66.69 2 5 6 2339.3 -29.62 83.58
 68.74 19 58 21 3935.74 -26.72 166.13 279.63 66.71 21 3 56 3335.7 -29.63 158.09
 111.26 1 16 6 2939.26 -26.70 91.61 279.62 66.69 2 5 6 2339.3 -29.62 83.58

DIFFERENTIAL CORRECTIONS

TDE 1.0314 TRA .1517 TC3-6.8074 BAU 1.1787
 RDE .2931 RRA .0580 RC3 -.2654 FAU .03419
 FDE .3493 FRA .5040 FC3-2.2868 BSP 16502
 BOE 1.0722 BRA .1624 BC3 6.8126 FSP -569

MID-COURSE EXECUTION ACCURACY

SGT 5174.5 SGR 516.7 SG3 172.2
 RRT .6489 RRF .6641 RTF .8978
 SGB 5200.2 R23 .1026 R13 .8983
 SG1 5185.4 SG2 392.3 THA 3.73

ORBIT DETERMINATION ACCURACY

ST 1651.6 SR 468.0 SS 391.1
 CRT .9969 CRS -.9139 CST -.9088
 LSA 1753.0 MSA 159.5 SSA 34.6
 EL1 1716.3 EL2 35.6 ALF 15.78

LAUNCH DATE FEB 27 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 505.051

RL 148.17 LAL -1.00 LOL 158.23 VL 26.579 GAL .48 AZL 88.25 HCA 249.36 SMA 122.32 ECC .21146 INC 1.7500 V1 30.072
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.013 GAP 10.25 AZP 90.62 TAL 178.19 TAP 67.55 RCA 96.45 APO 148.18 V2 35.050
 RC 174.540 GL 13.03 GP -18.18 ZAL 92.99 ZAP 158.95 ETS 304.87 ZAE 130.04 ETE 195.55 ZAC 153.74 ETC 188.07 CLP-169.20

PLANETOCENTRIC CONIC

C3 12.964 VHL 3.601 DLA 33.96 RAL 60.44 RAD 6567.5 VEL 11.591 PTH 2.03 VHP 7.311 DPA 1.25 RAP 61.29 ECC 1.2134
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.42 20 26 36 3905.84 -26.04 163.47 283.93 67.40 21 31 42 3305.8 -28.87 155.45
 109.58 1 24 27 2969.89 -26.03 93.70 283.93 67.39 2 13 57 2369.9 -28.86 85.68
 70.42 20 26 36 3905.84 -26.04 163.47 283.93 67.40 21 31 42 3305.8 -28.87 155.45
 109.58 1 24 27 2969.89 -26.03 93.70 283.93 67.39 2 13 57 2369.9 -28.86 85.68
 110.00 1 56 49 2871.12 -28.45 87.05 284.98 70.20 2 44 40 2271.1 -30.88 78.69
 110.00 0 57 21 3052.61 -23.68 98.99 282.77 64.59 1 48 13 2452.6 -26.90 91.30

DIFFERENTIAL CORRECTIONS

TDE .9519 TRA .3432 TC3-7.0153 BAU 1.2169
 RDE .2901 RRA .0664 RC3 -.2847 FAU .03453
 FDE .2883 FRA .5447 FC3-2.3061 BSP 16938
 BOE .9951 BRA .3496 BC3 7.0211 FSP -564

MID-COURSE EXECUTION ACCURACY

SGT 5315.0 SGR 520.9 SG3 174.1
 RRT .6569 RRF .6529 RTF .9125
 SGB 5340.5 R23 .0665 R13 .9128
 SG1 5326.1 SG2 392.0 THA 3.70

ORBIT DETERMINATION ACCURACY

ST 1535.1 SR 463.3 SS 352.4
 CRT .9952 CRS -.8670 CST -.8926
 LSA 1633.6 MSA 158.7 SSA 37.2
 EL1 1602.9 EL2 43.3 ALF 16.73

LAUNCH DATE FEB 27 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 510.719

RL 148.17 LAL -.00 LOL 158.23 VL 26.530 GAL .97 AZL 88.46 MCA 252.56 SMA 122.03 ECC .21484 INC 1.5393 V1 30.072
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.990 GAP 10.55 AZP 90.46 TAL 176.46 TAP 69.02 RCA 95.81 APO 148.24 V2 35.063
 RC 176.542 GL 11.34 GP -17.43 ZAL 89.42 ZAP 159.99 ETS 303.89 ZAE 130.25 ETE 194.98 ZAC 156.07 ETC 187.60 CLP-170.01

PLANETOCENTRIC CONIC

C3 13.126 VHL 3.623 CLA 32.97 RAL 65.02 RAD 6567.5 VEL 11.598 PTH 2.03 VHP 7.458 DPA 2.55 RAP 63.31 ECC 1.2160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.37 20 56 59 3871.30 -25.26 160.44 288.37 68.07 22 1 31 3271.3 -28.00 152.45
 107.63 1 30 37 3009.78 -25.24 96.43 288.37 68.06 2 20 46 2409.8 -27.99 88.44
 72.37 20 56 59 3871.30 -25.26 160.44 288.37 68.07 22 1 31 3271.3 -28.00 152.45
 107.63 1 30 37 3009.78 -25.24 96.43 288.37 68.06 2 20 46 2409.8 -27.99 88.44
 110.00 2 54 11 2752.89 -30.89 78.71 290.53 74.57 3 40 4 2152.9 -32.69 69.96
 110.00 0 36 32 3176.19 -19.86 106.55 285.63 61.59 1 29 28 2576.2 -23.50 99.30

DIFFERENTIAL CORRECTIONS

TDE .8737 TRA .5642 TC3-7.0043 BAU 1.2301
 RDE .2895 RRA .0792 RC3 -.2739 FAU .03271
 FDE .2357 FRA .6021 FC3-2.1572 BSP 17152
 BDE .9204 BRA .5697 BC3 7.0096 FSP -554

MID-COURSE EXECUTION ACCURACY

SGT 5366.5 SGR 520.8 SG3 170.0
 RRT .6435 RRF .6346 RTF .9145
 SGB 5391.7 R23 .0560 R13 .9148
 SG1 5377.0 SG2 397.9 THA 3.59

ORBIT DETERMINATION ACCURACY

ST 1426.3 SR 460.0 SS 326.7
 CRT .9873 CRS -.7982 CST -.8723
 LSA 1523.8 MSA 170.7 SSA 37.5
 EL1 1497.0 EL2 69.7 ALF 17.70

LAUNCH DATE FEB 27 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 516.364

RL 148.17 LAL -.00 LOL 158.23 VL 26.482 GAL 1.47 AZL 88.66 MCA 255.77 SMA 121.74 ECC .21853 INC 1.3358 V1 30.072
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.968 GAP 10.87 AZP 90.33 TAL 174.72 TAP 70.49 RCA 95.14 APO 148.34 V2 35.076
 RC 178.523 GL 9.69 GP -16.75 ZAL 85.80 ZAP 160.97 ETS 302.74 ZAE 130.44 ETE 194.47 ZAC 158.41 ETC 187.08 CLP-170.82

PLANETOCENTRIC CONIC

C3 13.436 VHL 3.665 CLA 31.90 RAL 69.55 RAD 6567.5 VEL 11.611 PTH 2.03 VHP 7.617 DPA 3.76 RAP 65.38 ECC 1.2211
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.66 21 30 7 3829.62 -24.35 156.86 292.92 68.73 22 33 57 3229.6 -27.02 148.90
 105.34 1 33 40 3061.58 -24.34 99.99 292.92 68.72 2 24 41 2461.6 -27.02 92.04
 74.66 21 30 7 3829.62 -24.35 156.86 292.92 68.73 22 33 57 3229.6 -27.02 148.90
 105.34 1 33 40 3061.58 -24.34 99.99 292.92 68.72 2 24 41 2461.6 -27.02 92.04
 110.00 3 37 29 2678.06 -32.12 73.22 295.58 77.61 4 22 7 2078.1 -33.49 64.26
 110.00 0 29 24 3261.13 -17.04 111.51 289.16 59.91 1 23 45 2661.1 -20.91 104.53

DIFFERENTIAL CORRECTIONS

TDE .7830 TRA .7947 TC3-6.9164 BAU 1.2433
 RDE .2895 RRA .0926 RC3 -.2629 FAU .03099
 FDE .1834 FRA .6571 FC3-1.9971 BSP 17358
 BDE .8348 BRA .8001 BC3 6.9214 FSP -544

MID-COURSE EXECUTION ACCURACY

SGT 5417.4 SGR 520.6 SG3 166.0
 RRT .6314 RRF .6182 RTF .9172
 SGB 5442.4 R23 .0462 R13 .9175
 SG1 5427.4 SG2 402.9 THA 3.49

ORBIT DETERMINATION ACCURACY

ST 1309.2 SR 455.4 SS 305.8
 CRT .9680 CRS -.7019 CST -.8498
 LSA 1405.7 MSA 193.6 SSA 36.1
 EL1 1381.9 EL2 108.2 ALF 18.73

LAUNCH DATE FEB 27 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 521.982

RL 148.17 LAL -.00 LOL 158.23 VL 26.434 GAL 2.00 AZL 88.86 MCA 258.98 SMA 121.46 ECC .22253 INC 1.1378 V1 30.072
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.946 GAP 11.20 AZP 90.22 TAL 172.98 TAP 71.96 RCA 94.43 APO 148.48 V2 35.089
 RC 180.483 GL 8.09 GP -16.13 ZAL 82.15 ZAP 161.88 ETS 301.40 ZAE 130.61 ETE 194.00 ZAC 160.76 ETC 186.48 CLP-171.63

PLANETOCENTRIC CONIC

C3 13.905 VHL 3.729 CLA 30.77 RAL 74.00 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 7.789 DPA 4.89 RAP 67.50 ECC 1.2288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.44 22 7 23 3775.72 -23.35 152.37 297.55 69.37 23 10 19 3175.7 -25.94 144.45
 102.56 1 31 54 3130.48 -23.34 104.77 297.54 69.36 2 24 4 2530.5 -25.93 96.86
 77.44 22 7 23 3775.72 -23.35 152.37 297.55 69.37 23 10 19 3175.7 -25.94 144.45
 102.56 1 31 54 3130.48 -23.34 104.77 297.54 69.36 2 24 4 2530.5 -25.93 96.86
 110.00 4 15 58 2618.22 -32.90 68.73 300.49 80.16 4 59 37 2018.2 -33.91 59.64
 110.00 0 26 25 3335.97 -14.43 115.75 292.96 58.67 1 22 1 2736.0 -18.48 108.97

DIFFERENTIAL CORRECTIONS

TDE .6833 TRA 1.0404 TC3-6.7343 BAU 1.2527
 RDE .2903 RRA .1071 RC3 -.2487 FAU .02916
 FDE .1326 FRA .7126 FC3-1.8156 BSP 17467
 BDE .7424 BRA 1.0459 BC3 6.7388 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 5457.8 SGR 519.7 SG3 161.6
 RRT .6191 RRF .6028 RTF .9193
 SGB 5482.5 R23 .0388 R13 .9195
 SG1 5467.3 SG2 407.4 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1198.5 SR 449.8 SS 292.8
 CRT .9298 CRS -.5777 CST -.8310
 LSA 1292.7 MSA 228.3 SSA 33.4
 EL1 1270.5 EL2 156.2 ALF 19.54

LAUNCH DATE FEB 27 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 527.569

RL 148.17 LAL -.00 LOL 158.23 VL 26.386 GAL 2.55 AZL 89.06 MCA 262.19 SMA 121.18 ECC .22689 INC .9440 V1 30.072
 RP 107.96 LAP -.94 LOP 60.42 VP 36.924 GAP 11.55 AZP 90.13 TAL 171.25 TAP 73.45 RCA 93.68 APO 148.67 V2 35.102
 RC 182.422 GL 6.54 GP -15.57 ZAL 78.50 ZAP 162.73 ETS 299.85 ZAE 130.77 ETE 193.57 ZAC 163.11 ETC 185.76 CLP-172.43

PLANETOCENTRIC CONIC

C3 14.548 VHL 3.814 CLA 29.57 RAL 78.33 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 7.974 DPA 5.93 RAP 69.66 ECC 1.2394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.11 22 52 12 3697.94 -22.25 146.13 302.22 70.00 23 53 50 3097.9 -24.77 138.26
 98.89 1 21 36 3228.21 -22.24 111.62 302.21 69.99 2 15 25 2628.2 -24.76 103.75
 100.00 2 7 6 3082.67 -25.04 101.84 303.23 73.11 2 58 29 2482.7 -27.11 93.65
 100.00 0 53 19 3318.71 -19.50 117.17 301.06 66.89 1 48 38 2718.7 -22.46 109.63
 110.00 4 51 28 2567.58 -33.42 64.87 305.32 82.38 5 34 15 1967.6 -34.12 55.70
 110.00 0 25 27 3406.57 -11.90 119.65 296.92 57.72 1 22 14 2806.6 -16.08 113.04

DIFFERENTIAL CORRECTIONS

TDE .5692 TRA 1.2953 TC3-6.4876 BAU 1.2626
 RDE .2917 RRA .1222 RC3 -.2339 FAU .02743
 FDE .0818 FRA .7662 FC3-1.6323 BSP 17640
 BDE .6395 BRA 1.3010 BC3 6.4918 FSP -519

MID-COURSE EXECUTION ACCURACY

SGT 5498.0 SGR 518.0 SG3 157.4
 RRT .6073 RRF .5886 RTF .9216
 SGB 5522.3 R23 .0324 R13 .9217
 SG1 5507.0 SG2 410.9 THA 3.29

ORBIT DETERMINATION ACCURACY

ST 1097.0 SR 442.7 SS 287.5
 CRT .8604 CRS -.4287 CST -.8238
 LSA 1185.9 MSA 273.3 SSA 30.5
 EL1 1163.7 EL2 212.7 ALF 19.84

LAUNCH DATE FEB 27 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 533.122

RL 148.17 LAL -.00 LOL 158.23 VL 26.339 GAL 3.12 AZL 89.25 HCA 265.41 SMA 120.90 ECC .23163 INC .7529 V1 30.072
 RP 107.92 LAP -.75 LOP 63.64 VP 36.902 GAP 11.91 AZP 90.06 TAL 169.53 TAP 74.94 RCA 92.90 APO 148.91 V2 35.114
 RC 184.340 GL 5.06 GP -15.05 ZAL 74.91 ZAP 163.52 ETS 298.09 ZAE 130.92 ETE 193.18 ZAC 165.46 ETC 184.85 CLP-173.22

PLANETOCENTRIC CONIC

C3 15.382 VHL 3.922 DLA 28.33 RAL 82.51 RAD 6567.6 VEL 11.695 PTH 2.06 VHP 8.173 DPA 6.89 RAP 71.87 ECC 1.2531
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 89.18 0 18 45 3497.51 -21.07 130.95 306.91 70.62 1 17 3 2897.5 -23.52 123.13
 90.82 0 32 18 3453.57 -21.06 127.73 306.91 70.60 1 29 52 2853.6 -23.51 119.91
 100.00 3 7 56 2951.69 -27.32 92.78 308.87 77.36 3 57 8 2351.7 -28.78 84.28
 100.00 0 25 48 3474.63 -15.07 126.63 304.26 63.87 1 23 43 2874.6 -18.46 119.47
 110.00 5 24 34 2524.00 -33.77 61.52 310.08 84.34 6 6 38 1924.0 -34.18 52.30
 110.00 0 25 40 3475.08 -9.38 123.36 300.96 56.98 1 23 35 2875.1 -13.66 116.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4437 TRA 1.5621 TC3-6.1776 BAU 1.2712 SGT 5533.7 SGR 515.2 SG3 153.0 ST 1022.8 SR 434.4 SS 290.5
 RDE .2936 RRA .1378 RC3 -.2179 FAU .02574 RRT .5959 RRF .5749 RTF .9240 CRT .7475 CRS -.2687 CST -.8361
 FDE .0317 FRA .8182 FC3-1.4488 BSP 17808 SGB 5557.7 R23 .0263 R13 .9241 LSA 1101.6 MSA 324.1 SSA 27.5
 BDE .5320 BRA 1.5682 BC3 6.1815 FSP -508 SGI 5542.3 SG2 413.1 THA 3.19 EL1 1076.9 EL2 274.0 ALF 18.88

LAUNCH DATE FEB 27 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 538.636

RL 148.17 LAL -.00 LOL 158.23 VL 26.293 GAL 3.72 AZL 89.44 HCA 268.62 SMA 120.64 ECC .23678 INC .5636 V1 30.072
 RP 107.88 LAP -.56 LOP 66.85 VP 36.881 GAP 12.30 AZP 90.01 TAL 167.82 TAP 76.44 RCA 92.07 APO 149.20 V2 35.126
 RC 186.236 GL 3.65 GP -14.59 ZAL 71.39 ZAP 164.26 ETS 296.10 ZAE 131.05 ETE 192.82 ZAC 167.82 ETC 183.64 CLP-174.01

PLANETOCENTRIC CONIC

C3 16.429 VHL 4.053 DLA 27.06 RAL 86.51 RAD 6567.7 VEL 11.739 PTH 2.07 VHP 8.387 DPA 7.77 RAP 74.11 ECC 1.2704
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 55 34 3248.45 -25.39 114.12 313.31 77.03 2 49 42 2648.4 -26.93 105.79
 90.00 23 23 28 3732.51 -14.45 145.29 309.36 65.38 24 25 40 3132.5 -17.65 138.08
 100.00 3 51 46 2873.83 -28.35 87.22 313.98 80.11 4 39 40 2273.8 -29.43 78.59
 100.00 0 13 52 3582.36 -11.74 132.90 308.00 62.31 1 13 35 2982.4 -15.36 125.97
 110.00 5 55 32 2486.52 -33.98 58.61 314.78 86.05 6 36 59 1886.5 -34.16 49.37
 110.00 0 26 35 3542.44 -6.86 126.95 305.07 56.43 1 25 38 2942.4 -11.23 120.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3079 TRA 1.8422 TC3-5.8165 BAU 1.2783 SGT 5565.3 SGR 511.5 SG3 148.8 ST 989.4 SR 425.2 SS 301.4
 RDE .2963 RRA .1540 RC3 -.2010 FAU .02410 RRT .5849 RRF .5621 RTF .9265 CRT .5878 CRS -.1168 CST -.8685
 FDE -.0167 FRA .8697 FC3-1.2699 BSP 17967 SGB 5588.7 R23 .0212 R13 .9266 LSA 1054.7 MSA 371.0 SSA 24.9
 BDE .4273 BRA 1.8486 BC3 5.8199 FSP -497 SGI 5573.4 SG2 414.3 THA 3.09 EL1 1024.4 EL2 332.3 ALF 15.89

LAUNCH DATE FEB 27 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 544.107

RL 148.17 LAL -.00 LOL 158.23 VL 26.247 GAL 4.35 AZL 89.63 HCA 271.84 SMA 120.37 ECC .24238 INC .3744 V1 30.072
 RP 107.85 LAP -.37 LOP 70.07 VP 36.860 GAP 12.72 AZP 89.99 TAL 166.11 TAP 77.96 RCA 91.20 APO 149.55 V2 35.138
 RC 188.109 GL 2.33 GP -14.16 ZAL 67.97 ZAP 164.93 ETS 293.88 ZAE 131.17 ETE 192.49 ZAC 170.17 ETC 181.89 CLP-174.81

PLANETOCENTRIC CONIC

C3 17.714 VHL 4.209 DLA 25.77 RAL 90.31 RAD 6567.7 VEL 11.794 PTH 2.09 VHP 8.617 DPA 8.58 RAP 76.39 ECC 1.2915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 46 3161.76 -26.58 108.05 318.46 79.85 3 34 28 2561.8 -27.71 99.57
 90.00 23 7 36 3853.92 -10.89 152.43 313.03 63.70 24 11 50 3253.9 -14.34 145.45
 100.00 4 29 6 2815.73 -28.96 83.01 318.89 82.24 5 16 2 2215.7 -29.73 74.29
 100.00 0 6 53 3675.19 -8.76 138.17 311.90 61.30 1 8 8 3075.2 -12.52 131.40
 110.00 6 24 31 2454.64 -34.10 56.13 319.43 87.51 7 5 25 1854.6 -34.07 46.89
 110.00 0 27 58 3609.04 -4.34 130.46 309.20 56.06 1 28 7 3009.0 -8.77 124.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1676 TRA 2.1409 TC3-5.4064 BAU 1.2811 SGT 5589.0 SGR 507.2 SG3 144.6 ST 1006.7 SR 415.9 SS 318.4
 RDE .3001 RRA .1709 RC3 -.1824 FAU .02239 RRT .5744 RRF .5510 RTF .9287 CRT .4040 CRS .0088 CST -.9083
 FDE -.0614 FRA .9229 FC3-1.0944 BSP 18005 SGB 5612.0 R23 .0179 R13 .9288 LSA 1061.1 MSA 401.5 SSA 22.6
 BDE .3438 BRA 2.1477 BC3 5.4095 FSP -482 SGI 5596.7 SG2 414.6 THA 3.00 EL1 1022.8 EL2 374.4 ALF 10.96

LAUNCH DATE FEB 27 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 549.526

RL 148.17 LAL -.00 LOL 158.23 VL 26.202 GAL 5.01 AZL 89.82 HCA 275.06 SMA 120.12 ECC .24849 INC .1843 V1 30.072
 RP 107.81 LAP -.18 LOP 73.29 VP 36.839 GAP 13.16 AZP 89.98 TAL 164.43 TAP 79.49 RCA 90.27 APO 149.96 V2 35.150
 RC 189.959 GL 1.10 GP -13.77 ZAL 64.68 ZAP 165.55 ETS 291.40 ZAE 131.28 ETE 192.19 ZAC 172.51 ETC 179.11 CLP-175.60

PLANETOCENTRIC CONIC

C3 19.269 VHL 4.390 DLA 24.49 RAL 93.91 RAD 6567.8 VEL 11.860 PTH 2.10 VHP 8.866 DPA 9.32 RAP 78.69 ECC 1.3171
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 44 3100.56 -27.24 103.69 323.37 81.94 4 11 25 2500.6 -28.07 95.12
 90.00 22 58 20 3954.58 -7.80 158.21 316.91 62.69 24 4 15 3354.6 -11.40 151.38
 100.00 5 2 14 2770.07 -29.33 79.67 323.66 83.97 5 48 24 2170.1 -29.86 70.90
 100.00 0 2 27 3760.30 -5.94 142.92 315.90 60.65 1 5 7 3160.3 -9.81 136.27
 110.00 6 51 33 2428.09 -34.16 54.06 324.02 88.74 7 32 1 1828.1 -33.96 44.82
 110.00 0 29 38 3675.05 -1.83 133.91 313.35 55.86 1 30 53 3075.0 -6.29 127.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .0140 TRA 2.4499 TC3-4.9829 BAU 1.2843 SGT 5611.3 SGR 501.3 SG3 140.6 ST 1062.5 SR 405.5 SS 338.8
 RDE .3044 RRA .1879 RC3 -.1645 FAU .02084 RRT .5638 RRF .5394 RTF .9314 CRT .2160 CRS .1186 CST -.9417
 FDE -.1066 FRA .9741 FC3 -.9362 BSP 18144 SGB 5633.6 R23 .0138 R13 .9314 LSA 1112.8 MSA 411.4 SSA 20.7
 BDE .3047 BRA 2.4571 BC3 4.9856 FSP -471 SGI 5618.4 SG2 413.5 THA 2.90 EL1 1066.7 EL2 394.4 ALF 5.46

LAUNCH DATE FEB 27 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 554.886

RL 148.17 LAL -0.00 LOL 158.23 VL 26.158 GAL 5.71 AZL 90.01 HCA 278.29 SMA 119.86 ECC .25515 INC .0000 V1 30.072
 RP 107.78 LAP .01 LOP 76.52 VP 36.818 GAP 13.63 AZP 90.00 TAL 162.75 TAP 81.04 RCA 89.28 APO 150.45 V2 35.161
 RC 191.786 GL -.04 GP -13.42 ZAL 61.53 ZAP 166.12 ETS 288.66 ZAE 131.37 ETE 191.90 ZAC 174.81 ETC 173.89 CLP-176.40

PLANETOCENTRIC CONIC

C3 21.131 VHL 4.597 DLA 23.23 RAL 97.29 RAD 6567.9 VEL 11.938 PTH 2.12 VHP 9.134 DPA 9.99 RAP 81.02 ECC 1.3478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 52 50 3054.03 -27.64 100.35 328.12 83.57 4 43 44 2454.0 -28.24 91.73
 90.00 22 52 15 4045.08 -4.94 163.32 320.87 62.08 23 59 40 3445.1 -8.64 156.59
 100.00 5 32 8 2733.82 -29.56 77.00 328.34 85.35 6 17 42 2133.8 -29.89 68.21
 100.00 23 55 37 3840.52 -3.25 147.35 319.94 60.27 24 59 38 3240.5 -7.18 140.77
 110.00 7 16 43 2406.63 -34.18 52.38 328.57 89.73 7 56 50 1806.6 -33.84 43.16
 110.00 0 31 28 3740.48 .68 137.33 317.49 55.82 1 33 48 3140.5 -3.81 131.12

DIFFERENTIAL CORRECTIONS

TOE -.1473 TRA 2.7756 TC3-4.5472 BAU 1.2853
 ROE .3096 RRA .2050 RC3 -.1465 FAU .01931
 FDE -.1497 FRA 1.0259 FC3 -.7910 BSP 18260
 BOE .3428 BRA 2.7831 BC3 4.5496 FSP -460

MID-COURSE EXECUTION ACCURACY

SGT 5628.9 SGR 494.3 SG3 136.6
 RRT .5532 RRF .5283 RTF .9341
 SGB 5650.6 R23 .0106 R13 .9341
 SG1 5635.6 SG2 411.3 THA 2.80

ORBIT DETERMINATION ACCURACY

ST 1151.1 SR 394.8 SS 361.3
 CRT .0526 CRS .2052 CST -.9649
 LSA 1203.1 MSA 404.4 SSA 19.1
 EL1 1151.3 EL2 394.2 ALF 1.17

LAUNCH DATE FEB 27 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 560.179

RL 148.17 LAL -0.00 LOL 158.23 VL 26.114 GAL 6.45 AZL 90.20 HCA 281.51 SMA 119.62 ECC .26242 INC .2019 V1 30.072
 RP 107.75 LAP .20 LOP 79.74 VP 36.797 GAP 14.13 AZP 90.04 TAL 161.10 TAP 82.62 RCA 88.23 APO 151.01 V2 35.172
 RC 193.588 GL -1.09 GP -13.09 ZAL 58.54 ZAP 166.62 ETS 285.64 ZAE 131.45 ETE 191.64 ZAC 177.01 ETC 160.82 CLP-177.20

PLANETOCENTRIC CONIC

C3 23.345 VHL 4.832 DLA 22.01 RAL 100.46 RAD 6567.9 VEL 12.030 PTH 2.15 VHP 9.425 DPA 10.59 RAP 83.37 ECC 1.3842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 22 20 3018.10 -27.88 97.75 332.77 84.85 5 12 38 2418.1 -28.30 89.10
 90.00 22 48 3 4129.28 -2.24 168.04 324.89 61.76 23 56 52 3529.3 -6.00 161.37
 100.00 5 59 19 2705.37 -29.70 74.90 332.93 86.45 6 44 25 2105.4 -29.88 66.10
 100.00 23 53 44 3917.25 -.65 151.57 324.00 60.11 24 59 2 3317.3 -4.62 145.03
 110.00 7 40 6 2390.09 -34.18 51.09 333.07 90.49 8 19 56 1790.1 -33.73 41.88
 110.00 0 33 23 3805.29 3.15 140.71 321.63 55.94 1 36 48 3205.3 -1.34 134.50

DIFFERENTIAL CORRECTIONS

TOE -.3153 TRA 3.1194 TC3-4.1094 BAU 1.2832
 ROE .3157 RRA .2222 RC3 -.1288 FAU .01781
 FDE -.1908 FRA 1.0788 FC3 -.6603 BSP 18345
 BOE .4461 BRA 3.1273 BC3 4.1114 FSP -449

MID-COURSE EXECUTION ACCURACY

SGT 5641.5 SGR 486.2 SG3 132.8
 RRT .5425 RRF .5177 RTF .9369
 SGB 5662.4 R23 .0080 R13 .9369
 SG1 5647.7 SG2 408.0 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 1259.6 SR 384.0 SS 384.5
 CRT -.0775 CRS .2722 CST -.9792
 LSA 1315.4 MSA 388.9 SSA 17.7
 EL1 1260.0 EL2 382.7 ALF 178.51

LAUNCH DATE FEB 27 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 565.392

RL 148.17 LAL -0.00 LOL 158.23 VL 26.071 GAL 7.23 AZL 90.40 HCA 284.74 SMA 119.37 ECC .27037 INC .4020 V1 30.072
 RP 107.71 LAP .39 LOP 82.97 VP 36.776 GAP 14.67 AZP 90.10 TAL 159.48 TAP 84.22 RCA 87.10 APO 151.65 V2 35.182
 RC 195.366 GL -2.04 GP -12.79 ZAL 55.71 ZAP 167.06 ETS 282.35 ZAE 131.51 ETE 191.39 ZAC 178.51 ETC 109.52 CLP-178.01

PLANETOCENTRIC CONIC

C3 25.965 VHL 5.096 DLA 20.82 RAL 103.43 RAD 6568.0 VEL 12.138 PTH 2.18 VHP 9.740 DPA 11.12 RAP 85.73 ECC 1.4273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 56 2990.65 -28.04 95.75 337.33 85.84 5 38 47 2390.6 -28.32 87.10
 90.00 22 45 4 4209.03 .33 172.48 328.92 61.68 23 55 13 3609.0 -3.46 165.85
 100.00 6 24 8 2683.68 -29.78 73.29 337.45 87.29 7 8 52 2083.7 -29.84 64.48
 100.00 23 52 33 3991.23 1.86 155.63 328.07 60.16 24 59 5 3391.2 -2.13 149.11
 110.00 8 1 45 2378.25 -34.17 50.17 337.52 91.04 8 41 24 1778.3 -33.65 40.96
 110.00 0 35 21 3869.43 5.59 144.07 325.76 56.22 1 39 51 3269.4 1.11 137.85

DIFFERENTIAL CORRECTIONS

TOE -.4875 TRA 3.4854 TC3-3.6751 BAU 1.2763
 ROE .3229 RRA .2394 RC3 -.1114 FAU .01629
 FDE -.2293 FRA 1.1340 FC3 -.5431 BSP 18347
 BOE .5847 BRA 3.4936 BC3 3.6768 FSP -435

MID-COURSE EXECUTION ACCURACY

SGT 5648.7 SGR 477.1 SG3 129.1
 RRT .5319 RRF .5077 RTF .9398
 SGB 5668.9 R23 .0063 R13 .9398
 SG1 5654.5 SG2 403.6 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 1376.7 SR 373.2 SS 407.3
 CRT -.1751 CRS .3222 CST -.9875
 LSA 1436.2 MSA 370.9 SSA 16.6
 EL1 1378.4 EL2 367.0 ALF 177.07

LAUNCH DATE FEB 27 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 570.513

RL 148.17 LAL -0.00 LOL 158.23 VL 26.028 GAL 8.07 AZL 90.61 HCA 287.97 SMA 119.14 ECC .27908 INC .6079 V1 30.072
 RP 107.68 LAP .58 LOP 86.20 VP 36.755 GAP 15.26 AZP 90.19 TAL 157.88 TAP 85.85 RCA 85.89 APO 152.39 V2 35.192
 RC 197.118 GL -2.91 GP -12.51 ZAL 53.05 ZAP 167.43 ETS 278.78 ZAE 131.56 ETE 191.16 ZAC 177.42 ETC 45.15 CLP-178.83

PLANETOCENTRIC CONIC

C3 29.058 VHL 5.391 DLA 19.68 RAL 106.18 RAD 6568.2 VEL 12.265 PTH 2.21 VHP 10.084 DPA 11.58 RAP 88.10 ECC 1.4782
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 13 3 2970.37 -28.13 94.27 341.81 86.58 6 2 33 2370.4 -28.30 85.61
 90.00 22 42 57 4285.32 2.79 176.74 332.97 61.81 23 54 22 3685.3 -1.00 170.11
 100.00 6 46 48 2668.01 -29.83 72.13 341.91 87.90 7 31 16 2068.0 -29.80 63.32
 100.00 23 51 52 4062.91 4.28 159.57 332.14 60.39 24 59 35 3462.9 .30 153.04
 110.00 8 21 47 2370.88 -34.16 49.59 341.94 91.38 9 1 18 1770.9 -33.59 40.39
 110.00 0 37 19 3932.81 7.98 147.43 329.87 56.65 1 42 52 3332.8 3.53 141.16

DIFFERENTIAL CORRECTIONS

TOE -.6712 TRA 3.8683 TC3-3.2635 BAU 1.2683
 ROE .3308 RRA .2559 RC3 -.0953 FAU .01488
 FDE -.2678 FRA 1.1896 FC3 -.4435 BSP 18429
 BOE .7482 BRA 3.8768 BC3 3.2649 FSP -424

MID-COURSE EXECUTION ACCURACY

SGT 5653.1 SGR 466.5 SG3 125.6
 RRT .5204 RRF .4970 RTF .9431
 SGB 5672.3 R23 .0044 R13 .9431
 SG1 5658.3 SG2 398.0 THA 2.47

ORBIT DETERMINATION ACCURACY

ST 1495.4 SR 362.1 SS 429.9
 CRT -.2529 CRS .3644 CST -.9924
 LSA 1558.2 MSA 352.2 SSA 15.6
 EL1 1498.4 EL2 349.6 ALF 176.29

LAUNCH DATE FEB 27 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 575.524

RL 148.17 LAL -.00 LOL 158.23 VL 25.987 GAL 8.95 AZL 90.82 MCA 291.20 SMA 118.91 ECC .28863 INC .8217 V1 30.072
 RP 107.66 LAP .77 LOP 89.43 VP 36.734 GAP 15.90 AZP 90.30 TAL 156.32 TAP 87.52 RCA 84.59 APO 153.23 V2 35.201
 RC 198.846 GL -3.69 GP -12.26 ZAL 50.56 ZAP 167.73 ETS 274.93 ZAE 131.58 ETE 190.93 ZAC 175.30 ETC 28.55 CLP-179.67

PLANETOCENTRIC CONIC

C3 32.705 VHL 5.719 DLA 18.60 RAL 108.74 RAD 6568.3 VEL 12.413 PTH 2.24 VHP 10.459 DPA 11.99 RAP 90.48 ECC 1.5382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 34 58 2956.32 -28.18 93.25 346.22 87.09 6 24 14 2356.3 -28.29 84.59
 90.00 22 41 26 4358.74 5.14 180.86 337.01 62.12 23 54 4 3758.7 1.37 174.21
 100.00 7 7 33 2657.77 -29.85 71.36 346.30 88.30 7 51 50 2057.8 -29.76 62.56
 100.00 23 51 32 4132.53 6.61 163.43 336.21 60.78 25 0 24 3532.5 2.66 156.86
 110.00 8 40 15 2367.72 -34.15 49.34 346.31 91.53 9 19 43 1767.7 -33.56 40.15
 110.00 0 39 15 3995.34 10.30 150.78 333.97 57.22 1 45 50 3395.3 5.91 144.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8627 TRA 4.2737 TC3-2.8720 BAU 1.2562 SGT 5652.3 SGR 454.6 SG3 122.2 ST 1610.5 SR 350.9 SS 451.9
 RDE .3395 RRA .2717 RC3 -.0803 FAU .01351 RRT .5080 RRF .4857 RTF .9465 CRT -.3132 CRS .3985 CST -.9952
 FDE -.3053 FRA 1.2471 FC3 -.3575 BSP 18493 SGB 5670.5 R23 .0030 R13 .9465 LSA 1676.1 MSA 334.2 SSA 14.7
 BDE .9271 BRA 4.2823 BC3 2.8731 FSP -414 SG1 5657.0 SG2 391.2 THA 2.35 EL1 1614.4 EL2 332.5 ALF 175.92

LAUNCH DATE FEB 27 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 580.405

RL 148.17 LAL -.00 LOL 158.23 VL 25.946 GAL 9.91 AZL 91.05 MCA 294.43 SMA 118.68 ECC .29914 INC 1.0452 V1 30.072
 RP 107.63 LAP .95 LOP 92.66 VP 36.714 GAP 16.59 AZP 90.43 TAL 154.80 TAP 89.23 RCA 83.18 APO 154.18 V2 35.209
 RC 200.549 GL -4.40 GP -12.03 ZAL 48.24 ZAP 167.96 ETS 270.83 ZAE 131.58 ETE 190.72 ZAC 173.05 ETC 22.49 CLP 179.48

PLANETOCENTRIC CONIC

C3 37.005 VHL 6.083 DLA 17.58 RAL 111.10 RAD 6568.4 VEL 12.585 PTH 2.28 VHP 10.869 DPA 12.33 RAP 92.85 ECC 1.6090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 54 54 2947.79 -28.21 92.63 350.57 87.40 6 44 2 2347.8 -28.27 83.96
 90.00 22 40 21 4429.64 7.38 184.86 341.04 62.58 23 54 11 3829.6 3.65 178.17
 100.00 7 26 30 2652.42 -29.86 70.97 350.63 88.51 8 10 43 2052.4 -29.75 62.16
 100.00 23 51 27 4200.25 8.84 167.21 340.26 61.33 25 1 27 3600.2 4.95 160.59
 110.00 8 57 15 2368.50 -34.15 49.40 350.63 91.49 9 36 43 1768.5 -33.57 40.21
 110.00 0 41 7 4056.93 12.55 154.14 338.05 57.94 1 48 44 3456.9 8.22 147.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0622 TRA 4.7046 TC3-2.5036 BAU 1.2390 SGT 5646.8 SGR 441.5 SG3 118.9 ST 1718.7 SR 339.8 SS 473.2
 RDE .3493 RRA .2865 RC3 -.0665 FAU .01215 RRT .4945 RRF .4738 RTF .9502 CRT -.3605 CRS .4261 CST -.9970
 FDE -.3417 FRA 1.3075 FC3 -.2843 BSP 18547 SGB 5664.0 R23 .0020 R13 .9502 LSA 1786.7 MSA 317.3 SSA 13.8
 BDE 1.1182 BRA 4.7133 BC3 2.5045 FSP -404 SG1 5651.0 SG2 383.4 THA 2.22 EL1 1723.2 EL2 316.1 ALF 175.78

LAUNCH DATE FEB 27 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 585.133

RL 148.17 LAL -.00 LOL 158.23 VL 25.906 GAL 10.93 AZL 91.28 MCA 297.66 SMA 118.46 ECC .31073 INC 1.2806 V1 30.072
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.693 GAP 17.35 AZP 90.59 TAL 153.33 TAP 91.00 RCA 81.65 APO 155.27 V2 35.217
 RC 202.227 GL -5.03 GP -11.81 ZAL 46.09 ZAP 168.10 ETS 266.51 ZAE 131.55 ETE 190.51 ZAC 170.78 ETC 19.43 CLP 178.61

PLANETOCENTRIC CONIC

C3 42.082 VHL 6.487 DLA 16.63 RAL 113.29 RAD 6568.6 VEL 12.785 PTH 2.33 VHP 11.321 DPA 12.61 RAP 95.21 ECC 1.6926
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 13 4 2944.16 -28.22 92.36 354.84 87.53 7 2 8 2344.2 -28.26 83.70
 90.00 22 39 37 4498.22 9.51 188.78 345.06 63.20 23 54 35 3898.2 5.84 182.02
 100.00 7 43 49 2651.50 -29.86 70.90 354.90 88.55 8 28 0 2051.5 -29.74 62.10
 100.00 23 51 33 4266.12 10.97 170.95 344.29 62.02 25 2 39 3666.1 7.14 164.25
 110.00 9 12 51 2372.90 -34.16 49.75 354.91 91.29 9 52 24 1772.9 -33.61 40.55
 110.00 0 42 55 4117.47 14.71 157.49 342.11 58.79 1 51 33 3517.5 10.47 150.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.2664 TRA 5.1670 TC3-2.1585 BAU 1.2147 SGT 5637.2 SGR 427.4 SG3 115.7 ST 1816.5 SR 329.0 SS 493.5
 RDE .3604 RRA .3001 RC3 -.0537 FAU .01075 RRT .4801 RRF .4616 RTF .9539 CRT -.3971 CRS .4474 CST -.9981
 FDE -.3763 FRA 1.3726 FC3 -.2212 BSP 18487 SGB 5653.4 R23 .0019 R13 .9539 LSA 1886.8 MSA 301.8 SSA 13.1
 BDE 1.3166 BRA 5.1757 BC3 2.1592 FSP -391 SG1 5640.9 SG2 374.7 THA 2.09 EL1 1821.3 EL2 301.1 ALF 175.77

LAUNCH DATE FEB 27 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 589.674

RL 148.17 LAL -.00 LOL 158.23 VL 25.867 GAL 12.03 AZL 91.53 MCA 300.90 SMA 118.25 ECC .32354 INC 1.5304 V1 30.072
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.673 GAP 18.18 AZP 90.79 TAL 151.92 TAP 92.82 RCA 79.99 APO 156.50 V2 35.225
 RC 203.880 GL -5.59 GP -11.62 ZAL 44.11 ZAP 168.16 ETS 261.98 ZAE 131.48 ETE 190.31 ZAC 168.51 ETC 17.59 CLP 177.70

PLANETOCENTRIC CONIC

C3 48.090 VHL 6.935 DLA 15.73 RAL 115.29 RAD 6568.8 VEL 13.017 PTH 2.37 VHP 11.819 DPA 12.83 RAP 97.56 ECC 1.7914
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 34 2944.89 -28.22 92.42 359.03 87.51 7 18 38 2344.9 -28.26 83.75
 90.00 22 39 6 4564.56 11.52 192.61 349.04 63.95 23 55 11 3964.6 7.93 185.78
 100.00 7 59 35 2654.56 -29.85 71.13 359.10 88.43 8 43 50 2054.6 -29.75 62.32
 100.00 23 51 46 4330.13 12.99 174.63 348.29 62.84 25 3 56 3730.1 9.24 167.84
 110.00 9 27 8 2380.63 -34.17 50.35 359.12 90.93 10 6 49 1780.6 -33.67 41.15
 110.00 0 44 38 4176.82 16.77 160.85 346.15 59.77 1 54 15 3576.8 12.63 154.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.4854 TRA 5.6568 TC3-1.8440 BAU 1.1859 SGT 5623.6 SGR 411.9 SG3 112.6 ST 1906.3 SR 317.9 SS 514.2
 RDE .3722 RRA .3117 RC3 -.0425 FAU .00943 RRT .4631 RRF .4468 RTF .9579 CRT -.4297 CRS .4683 CST -.9987
 FDE -.4122 FRA 1.4402 FC3 -.1698 BSP 18533 SGB 5638.7 R23 .0015 R13 .9579 LSA 1979.1 MSA 286.7 SSA 12.4
 BDE 1.5313 BRA 5.6653 BC3 1.8445 FSP -381 SG1 5626.8 SG2 364.9 THA 1.95 EL1 1911.3 EL2 286.3 ALF 175.81

LAUNCH DATE FEB 27 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 593.990

RL 148.17 LAL -.00 LOL 158.23 VL 25.829 GAL 13.23 AZL 91.80 MCA 304.13 SMA 118.04 ECC .33774 INC 1.7978 V1 30.072
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.652 GAP 19.10 AZP 91.01 TAL 150.58 TAP 94.71 RCA 78.17 APO 157.91 V2 35.232
 RC 205.508 GL -6.09 GP -11.44 ZAL 42.29 ZAP 168.12 ETS 257.30 ZAE 131.39 ETE 190.10 ZAC 166.27 ETC 16.38 CLP 176.77

PLANETOCENTRIC CONIC

C3 55.224 VHL 7.431 CLA 14.91 RAL 117.12 RAD 6569.0 VEL 13.288 PTH 2.43 VHP 12.370 DPA 13.00 RAP 99.88 ECC 1.9088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 31 2949.51 -28.20 92.75 3.13 87.34 7 33 41 2349.5 -28.27 84.09
 90.00 22 38 46 4628.67 13.41 196.38 352.99 64.82 23 55 55 4028.7 9.91 189.45
 100.00 8 13 55 2661.19 -29.84 71.62 3.21 88.17 8 58 16 2061.2 -29.78 62.81
 100.00 23 52 3 4392.22 14.89 178.26 352.26 63.78 25 5 15 3792.2 11.24 171.36
 110.00 9 40 9 2391.36 -34.18 51.19 3.27 90.44 10 20 1 1791.4 -33.74 41.97
 110.00 0 46 14 4234.81 18.73 164.21 350.15 60.87 1 56 49 3634.8 14.70 157.41

DIFFERENTIAL CORRECTIONS

TDE-1.7150 TRA 6.1809 TC3-1.5563 BAU 1.1493
 RDE .3853 RRA .3210 RC3 -.0327 FAU .00809
 FDE -.4481 FRA 1.5127 FC3 -.1268 BSP 18552
 BOE 1.7578 BRA 6.1892 BC3 1.5566 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 5605.2 SGR 395.2 SG3 109.7
 RRT .4435 RRF .4297 RTF .9619
 SGB 5619.1 R23 .0016 R13 .9619
 SG1 5608.0 SG2 354.1 THA 1.80

ORBIT DETERMINATION ACCURACY

ST 1985.5 SR 306.9 SS 534.9
 CRT -.4580 CRS .4871 CST -.9992
 LSA 2061.1 MSA 272.4 SSA 11.8
 EL1 1990.5 EL2 272.1 ALF 175.87

LAUNCH DATE FEB 27 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 598.032

RL 148.17 LAL -.00 LOL 158.23 VL 25.792 GAL 14.53 AZL 92.09 MCA 307.37 SMA 117.84 ECC .35355 INC 2.0866 V1 30.072
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.632 GAP 20.11 AZP 91.27 TAL 149.33 TAP 96.69 RCA 76.18 APO 159.50 V2 35.238
 RC 207.111 GL -6.54 GP -11.27 ZAL 40.63 ZAP 167.98 ETS 252.51 ZAE 131.24 ETE 189.90 ZAC 164.07 ETC 15.53 CLP 175.80

PLANETOCENTRIC CONIC

C3 63.729 VHL 7.983 CLA 14.15 RAL 118.79 RAD 6569.2 VEL 13.605 PTH 2.49 VHP 12.984 DPA 13.12 RAP 102.17 ECC 2.0488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 1 2957.55 -28.18 93.34 7.14 87.04 7 47 19 2357.6 -28.29 84.68
 90.00 22 38 33 4690.48 15.17 200.06 356.88 65.80 23 56 44 4090.5 11.77 193.03
 100.00 8 26 52 2670.98 -29.82 72.35 7.22 87.79 9 11 23 2071.0 -29.81 63.54
 100.00 23 52 23 4452.28 16.66 181.84 356.17 64.82 25 6 35 3852.3 13.13 174.82
 110.00 9 51 57 2404.76 -34.18 52.24 7.33 89.82 10 32 2 1804.8 -33.83 43.01
 110.00 0 47 43 4291.27 20.57 167.56 354.11 62.07 1 59 14 3691.3 16.67 160.61

DIFFERENTIAL CORRECTIONS

TDE-1.9566 TRA 6.7452 TC3-1.2940 BAU 1.1027
 RDE .3998 RRA .3274 RC3 -.0241 FAU .00671
 FDE -.4845 FRA 1.5913 FC3 -.0911 BSP 18543
 BOE 1.9970 BRA 6.7531 BC3 1.2942 FSP -362

MID-COURSE EXECUTION ACCURACY

SGT 5582.6 SGR 377.5 SG3 106.9
 RRT .4206 RRF .4097 RTF .9660
 SGB 5595.4 R23 .0020 R13 .9660
 SG1 5584.9 SG2 342.4 THA 1.64

ORBIT DETERMINATION ACCURACY

ST 2054.1 SR 296.0 SS 556.2
 CRT -.4835 CRS .5048 CST -.9995
 LSA 2132.9 MSA 258.6 SSA 11.2
 EL1 2059.1 EL2 258.5 ALF 175.95

LAUNCH DATE FEB 27 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 601.738

RL 148.17 LAL -.00 LOL 158.23 VL 25.756 GAL 15.96 AZL 92.40 MCA 310.60 SMA 117.65 ECC .37119 INC 2.4015 V1 30.072
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.612 GAP 21.25 AZP 91.56 TAL 148.17 TAP 98.77 RCA 73.98 APO 161.32 V2 35.243
 RC 208.690 GL -6.93 GP -11.11 ZAL 39.14 ZAP 167.74 ETS 247.67 ZAE 131.05 ETE 189.69 ZAC 161.90 ETC 14.90 CLP 174.78

PLANETOCENTRIC CONIC

C3 73.923 VHL 8.598 CLA 13.45 RAL 120.29 RAD 6569.4 VEL 13.974 PTH 2.55 VHP 13.671 DPA 13.19 RAP 104.41 ECC 2.2166
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 10 7 2968.61 -28.13 94.15 11.03 86.64 7 59 36 2368.6 -28.30 85.48
 90.00 22 38 24 4749.86 16.79 203.67 .69 66.86 23 57 34 4149.9 13.51 196.52
 100.00 8 38 30 2683.57 -29.78 73.28 11.13 87.30 9 23 14 2083.6 -29.84 64.48
 100.00 23 52 42 4510.14 18.30 185.35 .00 65.95 25 7 52 3910.1 14.90 178.21
 110.00 10 2 34 2420.51 -34.17 53.47 11.29 89.09 10 42 55 1820.5 -33.92 44.23
 110.00 0 49 3 4345.96 22.27 170.89 358.00 63.37 2 1 29 3746.0 18.52 163.77

DIFFERENTIAL CORRECTIONS

TDE-2.2083 TRA 7.3583 TC3-1.0547 BAU 1.0425
 RDE .4159 RRA .3304 RC3 -.0168 FAU .00522
 FDE -.5209 FRA 1.6780 FC3 -.0611 BSP 18430
 BOE 2.2471 BRA 7.3657 BC3 1.0548 FSP -351

MID-COURSE EXECUTION ACCURACY

SGT 5556.6 SGR 359.0 SG3 104.2
 RRT .3939 RRF .3861 RTF .9700
 SGB 5568.1 R23 .0028 R13 .9701
 SG1 5558.4 SG2 329.9 THA 1.46

ORBIT DETERMINATION ACCURACY

ST 2111.0 SR 285.3 SS 578.0
 CRT -.5065 CRS .5212 CST -.9997
 LSA 2193.5 MSA 245.5 SSA 10.6
 EL1 2116.0 EL2 245.5 ALF 176.03

LAUNCH DATE FEB 27 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 605.024

RL 148.17 LAL -.00 LOL 158.23 VL 25.722 GAL 17.53 AZL 92.75 MCA 313.84 SMA 117.46 ECC .39095 INC 2.7486 V1 30.072
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.593 GAP 22.52 AZP 91.90 TAL 147.14 TAP 100.97 RCA 71.54 APO 163.39 V2 35.248
 RC 210.244 GL -7.28 GP -10.96 ZAL 37.81 ZAP 167.37 ETS 242.84 ZAE 130.79 ETE 189.48 ZAC 159.79 ETC 14.43 CLP 173.69

PLANETOCENTRIC CONIC

C3 86.214 VHL 9.285 CLA 12.83 RAL 121.62 RAD 6569.7 VEL 14.407 PTH 2.62 VHP 14.443 DPA 13.22 RAP 106.60 ECC 2.4189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 51 2982.30 -28.08 95.14 14.77 86.15 8 10 34 2382.3 -28.31 86.49
 90.00 22 38 17 4806.61 18.27 207.17 4.41 67.99 23 58 24 4206.6 15.13 199.91
 100.00 8 48 50 2698.57 -29.73 74.39 14.89 86.72 9 33 48 2098.6 -29.87 65.59
 100.00 23 53 0 4565.56 19.80 188.78 3.74 67.14 25 9 5 3965.6 16.54 181.51
 110.00 10 12 1 2438.28 -34.14 54.85 15.12 88.27 10 52 39 1838.3 -34.01 45.61
 110.00 0 50 14 4398.62 23.84 174.17 1.80 64.75 2 3 33 3798.6 20.24 166.88

DIFFERENTIAL CORRECTIONS

TDE-2.4810 TRA 8.0169 TC3 -.8421 BAU .9706
 RDE .4336 RRA .3285 RC3 -.0108 FAU .00369
 FDE -.5602 FRA 1.7717 FC3 -.0370 BSP 18425
 BOE 2.5186 BRA 8.0236 BC3 .8421 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5525.4 SGR 339.5 SG3 101.6
 RRT .3608 RRF .3559 RTF .9740
 SGB 5535.8 R23 .0036 R13 .9740
 SG1 5526.8 SG2 316.5 THA 1.27

ORBIT DETERMINATION ACCURACY

ST 2159.3 SR 274.7 SS 601.9
 CRT -.5304 CRS .5397 CST -.9998
 LSA 2246.4 MSA 232.4 SSA 10.0
 EL1 2164.3 EL2 232.4 ALF 176.09

LAUNCH DATE FEB 27 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 607.787

RL 148.17 LAL -.00 LOL 158.23 VL 25.689 GAL 19.27 AZL 93.14 MCA 317.07 SMA 117.29 ECC .41316 INC 3.1358 V1 30.072
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.574 GAP 23.96 AZP 92.30 TAL 146.25 TAP 103.32 RCA 68.83 APO 165.75 V2 35.252
 RC 211.773 GL -7.58 GP -10.82 ZAL 36.66 ZAP 166.88 ETS 238.05 ZAE 130.45 ETE 189.25 ZAC 157.75 ETC 14.07 CLP 172.54

PLANETOCENTRIC CONIC

C3 101.137 VHL 10.057 DLA 12.27 RAL 122.78 RAD 6570.0 VEL 14.916 PTH 2.69 VHP 15.315 DPA 13.22 RAP 108.72 ECC 2.6645
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 30 14 2998.27 -28.00 96.31 18.35 85.57 8 20 12 2398.3 -28.32 87.65
 90.00 22 38 10 4860.44 19.61 210.55 7.98 69.16 23 59 10 4260.4 16.60 203.17
 100.00 8 57 51 2715.68 -29.65 75.66 18.49 86.05 9 43 7 2115.7 -29.89 66.86
 100.00 23 53 14 4618.27 21.16 192.10 7.34 68.38 25 10 12 4018.3 18.04 184.70
 110.00 10 20 17 2457.78 -34.09 56.38 18.79 87.37 11 1 14 1857.8 -34.08 47.13
 110.00 0 51 14 4448.94 25.26 177.39 5.47 66.17 2 5 23 3848.9 21.83 169.92

DIFFERENTIAL CORRECTIONS

TDE-2.7714 TRA 8.7334 TC3 -.6515 BAU .8810
 RDE .4536 RRA .3210 RC3 -.0061 FAU .00200
 FDE -.6016 FRA 1.8755 FC3 -.0171 BSP 18403
 BDE 2.8083 BRA 8.7393 BC3 .6516 FSP -335

MID-COURSE EXECUTION ACCURACY

SGT 5489.8 SGR 319.3 SG3 99.1
 RRT .3201 RRF .3183 RTF .9778
 SGB 5499.1 R23 .0046 R13 .9778
 SG1 5490.8 SG2 302.4 THA 1.07

ORBIT DETERMINATION ACCURACY

ST 2197.3 SR 264.4 SS 627.8
 CRT -.5546 CRS .5591 CST -.9999
 LSA 2290.0 MSA 219.6 SSA 9.4
 EL1 2202.2 EL2 219.6 ALF 176.14

LAUNCH DATE FEB 27 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 609.887

RL 148.17 LAL -.00 LOL 158.23 VL 25.658 GAL 21.22 AZL 93.57 MCA 320.31 SMA 117.13 ECC .43824 INC 3.5730 V1 30.072
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.555 GAP 25.59 AZP 92.75 TAL 145.53 TAP 105.84 RCA 65.80 APO 168.46 V2 35.255
 RC 213.276 GL -7.84 GP -10.69 ZAL 35.68 ZAP 166.25 ETS 233.35 ZAE 130.03 ETE 189.01 ZAC 155.79 ETC 13.81 CLP 171.30

PLANETOCENTRIC CONIC

C3 119.402 VHL 10.927 DLA 11.78 RAL 123.76 RAD 6570.2 VEL 15.516 PTH 2.77 VHP 16.308 DPA 13.18 RAP 110.74 ECC 2.9651
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 38 14 3016.22 -27.90 97.61 21.73 84.92 8 28 30 2416.2 -28.31 88.97
 90.00 22 38 0 4911.04 20.81 213.78 11.38 70.35 23 59 51 4311.0 17.94 206.28
 100.00 9 5 33 2734.59 -29.56 77.06 21.90 85.32 9 51 8 2134.6 -29.89 68.27
 100.00 23 53 22 4667.91 22.37 195.29 10.77 69.64 25 11 10 4067.9 19.40 187.76
 110.00 10 27 19 2478.72 -34.02 58.01 22.27 86.41 11 8 38 1878.7 -34.14 48.76
 110.00 0 52 1 4496.54 26.54 180.50 8.98 67.62 2 6 57 3896.5 23.27 172.87

DIFFERENTIAL CORRECTIONS

TDE-3.0813 TRA 9.5168 TC3 -.4814 BAU .7685
 RDE .4762 RRA .3064 RC3 -.0025 FAU .00008
 FDE -.6456 FRA 1.9914 FC3 -.0006 BSP 18347
 BDE 3.1179 BRA 9.5217 BC3 .4814 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 5449.9 SGR 298.9 SG3 96.7
 RRT .2695 RRF .2707 RTF .9814
 SGB 5458.1 R23 .0056 R13 .9814
 SG1 5450.5 SG2 287.8 THA .85

ORBIT DETERMINATION ACCURACY

ST 2224.8 SR 254.5 SS 656.3
 CRT -.5795 CRS .5801 CST -.9999
 LSA 2324.3 MSA 207.0 SSA 8.9
 EL1 2229.8 EL2 207.0 ALF 176.17

LAUNCH DATE FEB 27 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 611.143

RL 148.17 LAL -.00 LOL 158.23 VL 25.630 GAL 23.41 AZL 94.07 MCA 323.54 SMA 116.98 ECC .46664 INC 4.0742 V1 30.072
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.538 GAP 27.45 AZP 93.28 TAL 145.04 TAP 108.57 RCA 62.39 APO 171.56 V2 35.258
 RC 214.754 GL -8.06 GP -10.56 ZAL 34.90 ZAP 165.46 ETS 228.76 ZAE 129.49 ETE 188.75 ZAC 153.93 ETC 13.61 CLP 169.55

PLANETOCENTRIC CONIC

C3 141.953 VHL 11.914 DLA 11.38 RAL 124.55 RAD 6570.5 VEL 16.226 PTH 2.85 VHP 17.443 DPA 13.12 RAP 112.66 ECC 3.3362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 44 46 3035.91 -27.77 99.04 24.88 84.22 8 35 22 2435.9 -28.28 90.41
 90.00 22 37 45 4957.98 21.85 216.83 14.56 71.53 24 0 23 4358.0 19.12 209.22
 100.00 9 11 51 2755.06 -29.43 78.57 25.07 84.54 9 57 46 2155.1 -29.88 69.79
 100.00 23 53 22 4714.06 23.43 198.31 13.98 70.89 25 11 56 4114.1 20.61 190.65
 110.00 10 33 5 2500.87 -33.91 59.73 25.53 85.39 11 14 46 1900.9 -34.17 50.49
 110.00 0 52 33 4541.02 27.66 183.48 12.28 69.06 2 8 14 3941.0 24.56 175.68

DIFFERENTIAL CORRECTIONS

TDE-3.4089 TRA10.3792 TC3 -.3295 BAU .6254
 RDE .5023 RRA .2829 RC3 -.0001 FAU-.00219
 FDE -.6921 FRA 2.1224 FC3 .0134 BSP 18169
 BDE 3.4457 BRA10.3831 BC3 .3295 FSP -317

MID-COURSE EXECUTION ACCURACY

SGT 5406.1 SGR 278.6 SG3 94.5
 RRT .2062 RRF .2102 RTF .9847
 SGB 5413.3 R23 .0068 R13 .9847
 SG1 5406.4 SG2 272.6 THA .61

ORBIT DETERMINATION ACCURACY

ST 2240.7 SR 245.1 SS 687.9
 CRT -.6052 CRS .6024 CST -.9999
 LSA 2348.7 MSA 194.8 SSA 8.3
 EL1 2245.7 EL2 194.7 ALF 176.18

LAUNCH DATE FEB 27 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 611.310

RL 148.17 LAL -.00 LOL 158.23 VL 25.605 GAL 25.89 AZL 94.66 MCA 326.77 SMA 116.84 ECC .49889 INC 4.6584 V1 30.072
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.522 GAP 29.60 AZP 93.90 TAL 144.80 TAP 111.57 RCA 58.55 APO 175.13 V2 35.259
 RC 216.204 GL -8.25 GP -10.44 ZAL 34.32 ZAP 164.49 ETS 224.32 ZAE 128.82 ETE 188.46 ZAC 152.21 ETC 13.47 CLP 168.46

PLANETOCENTRIC CONIC

C3 170.062 VHL 13.041 DLA 11.05 RAL 125.13 RAD 6570.8 VEL 17.070 PTH 2.93 VHP 18.749 DPA 13.05 RAP 114.45 ECC 3.7988
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 49 46 3057.14 -27.61 100.57 27.76 83.46 8 40 43 2457.1 -28.23 91.96
 90.00 22 37 23 5000.79 22.75 219.65 17.47 72.66 24 0 44 4400.8 20.16 211.93
 100.00 9 16 39 2776.91 -29.28 80.17 27.97 83.71 10 2 56 2176.9 -29.85 71.41
 100.00 23 53 11 4756.25 24.35 201.11 16.91 72.10 25 12 27 4156.2 21.67 193.34
 110.00 10 37 28 2524.04 -33.77 61.52 28.52 84.34 11 19 32 1924.0 -34.18 52.30
 110.00 0 52 47 4581.89 28.62 186.27 15.30 70.45 2 9 9 3981.9 25.69 178.32

DIFFERENTIAL CORRECTIONS

TDE-3.7665 TRA11.3199 TC3 -.1976 BAU .4493
 RDE .5326 RRA .2479 RC3 .0013 FAU-.00486
 FDE -.7443 FRA 2.2689 FC3 .0247 BSP 18113
 BDE 3.8040 BRA11.3226 BC3 .1976 FSP -311

MID-COURSE EXECUTION ACCURACY

SGT 5355.7 SGR 259.0 SG3 92.4
 RRT .1250 RRF .1315 RTF .9877
 SGB 5362.0 R23 .0078 R13 .9877
 SG1 5355.8 SG2 257.0 THA .35

ORBIT DETERMINATION ACCURACY

ST 2247.2 SR 236.4 SS 724.0
 CRT -.6338 CRS .6283 CST -.9999
 LSA 2365.7 MSA 182.6 SSA 7.7
 EL1 2252.2 EL2 182.4 ALF 176.16

LAUNCH DATE FEB 28 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 9 1969

HELIOCENTRIC CONIC

DISTANCE 194.886

RL 148.20 LAL -.00 LOL 159.23 VL 28.073 GAL -10.94 AZL 89.46 HCA 87.98 SMA 132.33 ECC .22330 INC .5426 V1 30.065
 RP 108.53 LAP .54 LOP 247.21 VP 37.984 GAP -7.73 AZP 89.98 TAL 227.24 TAP 315.22 RCA 102.78 APO 161.88 V2 34.917
 RC 59.985 GL 2.39 GP 20.40 ZAL 156.37 ZAP 33.00 ETS 327.97 ZAE 147.75 ETE 29.56 ZAC 124.05 ETC 148.31 CLP -26.52

PLANETOCENTRIC CONIC

C3 39.300 VHL 6.269 DLA 3.29 RAL 1.58 RAD 6568.5 VEL 12.675 PTH 2.30 VHP 6.348 DPA 32.05 RAP 30.54 ECC 1.6468
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 33 23 2483.84 -25.06 59.28 235.67 103.63 1 14 46 1883.8 -22.94 51.26
 90.00 13 20 12 4924.01 21.10 214.62 233.43 70.67 14 42 16 4324.0 18.27 207.09
 100.00 1 56 15 2216.52 -26.34 39.27 235.31 104.67 2 33 12 1616.5 -24.07 31.21
 100.00 14 40 0 4666.56 22.34 195.21 232.95 69.61 15 57 47 4066.6 19.36 187.68
 110.00 3 8 1 1991.90 -29.79 21.08 234.18 107.60 3 41 13 1391.9 -27.10 12.93
 110.00 15 44 44 4463.94 25.67 178.36 231.48 66.62 16 59 8 3863.9 22.29 170.84

DIFFERENTIAL CORRECTIONS

TDE -.1549 TRA -.3116 TC3 .3324 BAU .2124
 RDE -.3291 RRA .3041 RC3 .2301 FAU .05983
 FDE -.4727 FRA -.6709 FC3-1.3180 BSP 1510
 BOE .3638 BRA .4354 BC3 .4043 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 524.6 SGR 501.2 SG3 156.8
 RRT .3173 RRF -.5691 RTF -.4751
 SGB 725.5 R23 -.1237 R13 -.6364
 SG1 589.5 SG2 423.0 THA 40.91

ORBIT DETERMINATION ACCURACY

ST 165.9 SR 312.3 SS 259.1
 CRT .6862 CRS -.7739 CST -.9740
 LSA 409.3 MSA 154.6 SSA 26.9
 EL1 335.3 EL2 112.4 ALF 67.27

LAUNCH DATE FEB 28 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 201.602

RL 148.20 LAL -.00 LOL 159.23 VL 28.167 GAL -10.84 AZL 89.64 HCA 91.16 SMA 133.03 ECC .21893 INC .3553 V1 30.065
 RP 108.57 LAP .36 LOP 250.39 VP 38.042 GAP -6.94 AZP 90.01 TAL 228.38 TAP 319.54 RCA 103.90 APO 162.15 V2 34.906
 RC 61.981 GL 1.59 GP 21.76 ZAL 157.18 ZAP 36.59 ETS 330.38 ZAE 147.85 ETE 33.29 ZAC 122.92 ETC 147.90 CLP -30.17

PLANETOCENTRIC CONIC

C3 38.444 VHL 6.200 DLA 2.25 RAL 1.20 RAD 6568.5 VEL 12.642 PTH 2.29 VHP 5.985 DPA 33.12 RAP 29.41 ECC 1.6327
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 35 2446.10 -24.43 56.70 234.48 104.78 1 20 21 1846.1 -22.16 48.76
 90.00 13 10 59 4950.62 21.69 216.35 232.96 71.34 14 33 30 4350.6 18.94 208.75
 100.00 2 1 59 2180.35 -25.69 36.77 234.10 105.83 2 38 19 1580.3 -23.27 28.81
 100.00 14 31 17 4691.61 22.93 196.84 232.49 70.27 15 49 29 4091.6 20.03 189.24
 110.00 3 12 38 1959.22 -29.10 18.79 232.91 108.79 3 45 17 1359.2 -26.25 10.76
 110.00 15 37 8 4485.50 26.25 179.77 231.08 67.27 16 51 53 3885.5 22.94 172.18

DIFFERENTIAL CORRECTIONS

TDE -.1494 TRA -.3162 TC3 .3270 BAU .2172
 RDE -.3084 RRA .3206 RC3 .2677 FAU .06574
 FDE -.5648 FRA -.7554 FC3-1.4805 BSP 1551
 BOE .3427 BRA .4503 BC3 .4226 FSP -481

MID-COURSE EXECUTION ACCURACY

SGT 518.6 SGR 528.6 SG3 175.6
 RRT .3185 RRF -.6217 RTF -.4441
 SGB 740.5 R23 -.1336 R13 -.6604
 SG1 601.4 SG2 432.1 THA 46.70

ORBIT DETERMINATION ACCURACY

ST 164.0 SR 298.7 SS 292.2
 CRT .6463 CRS -.7675 CST -.9685
 LSA 418.3 MSA 160.9 SSA 27.0
 EL1 320.2 EL2 116.8 ALF 67.27

LAUNCH DATE FEB 28 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 208.285

RL 148.20 LAL -.00 LOL 159.23 VL 28.246 GAL -10.75 AZL 89.83 HCA 94.34 SMA 133.63 ECC .21517 INC .1677 V1 30.065
 RP 108.60 LAP .17 LOP 253.57 VP 38.090 GAP -6.19 AZP 90.01 TAL 229.38 TAP 323.72 RCA 104.87 APO 162.38 V2 34.894
 RC 64.032 GL .76 GP 23.22 ZAL 157.87 ZAP 40.38 ETS 332.62 ZAE 148.00 ETE 37.54 ZAC 121.57 ETC 147.63 CLP -34.02

PLANETOCENTRIC CONIC

C3 37.700 VHL 6.140 DLA 1.24 RAL .94 RAD 6568.5 VEL 12.612 PTH 2.29 VHP 5.658 DPA 34.19 RAP 28.00 ECC 1.6204
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 5 2409.71 -23.78 54.23 233.49 105.85 1 26 14 1809.7 -21.37 46.39
 90.00 13 2 26 4977.12 22.26 218.09 232.66 72.03 14 25 23 4377.1 19.59 210.43
 100.00 2 8 0 2145.48 -25.02 34.40 233.09 106.91 2 43 45 1545.5 -22.47 26.53
 100.00 14 23 12 4716.58 23.49 198.48 232.21 70.96 15 41 48 4116.6 20.68 190.81
 110.00 3 17 33 1927.74 -28.39 16.62 231.84 109.90 3 49 41 1327.7 -25.41 8.71
 110.00 15 30 7 4507.09 26.81 181.20 230.84 67.95 16 45 14 3907.1 23.58 173.53

DIFFERENTIAL CORRECTIONS

TDE -.1465 TRA -.3259 TC3 .3139 BAU .2221
 RDE -.2849 RRA .3382 RC3 .3094 FAU .07201
 FDE -.6670 FRA -.8418 FC3-1.6535 BSP 1595
 BOE .3203 BRA .4697 BC3 .4408 FSP -544

MID-COURSE EXECUTION ACCURACY

SGT 509.7 SGR 561.0 SG3 195.7
 RRT .3035 RRF -.6724 RTF -.3973
 SGB 757.9 R23 -.1344 R13 -.6893
 SG1 615.0 SG2 443.0 THA 53.77

ORBIT DETERMINATION ACCURACY

ST 164.8 SR 282.4 SS 326.7
 CRT .5981 CRS -.7546 CST -.9616
 LSA 430.5 MSA 166.2 SSA 27.0
 EL1 302.9 EL2 123.1 ALF 66.69

LAUNCH DATE FEB 28 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 214.935

RL 148.20 LAL -.00 LOL 159.23 VL 28.312 GAL -10.67 AZL 90.00 HCA 97.51 SMA 134.13 ECC .21193 INC .0171 V1 30.065
 RP 108.64 LAP -.02 LOP 256.74 VP 38.129 GAP -5.48 AZP 90.02 TAL 230.22 TAP 327.73 RCA 105.07 APO 162.55 V2 34.883
 RC 66.131 GL -.09 GP 24.78 ZAL 158.41 ZAP 44.39 ETS 334.77 ZAE 148.15 ETE 42.35 ZAC 120.01 ETC 147.51 CLP -38.09

PLANETOCENTRIC CONIC

C3 37.043 VHL 6.086 DLA .24 RAL .79 RAD 6568.4 VEL 12.586 PTH 2.28 VHP 5.367 DPA 35.24 RAP 26.30 ECC 1.6096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 52 52 2374.43 -23.10 51.87 232.68 106.85 1 32 26 1774.4 -20.57 44.11
 90.00 12 54 28 5003.52 22.80 219.83 232.52 72.74 14 17 52 4403.5 20.22 212.10
 100.00 2 14 19 2111.69 -24.34 32.13 232.26 107.92 2 49 31 1511.7 -21.66 24.35
 100.00 14 15 42 4741.49 24.03 200.13 232.09 71.67 15 34 43 4141.5 21.31 192.39
 110.00 3 22 49 1897.27 -27.66 14.54 230.95 110.93 3 54 26 1297.3 -24.56 6.74
 110.00 15 23 41 4528.68 27.35 182.65 230.76 68.65 16 39 10 3928.7 24.20 174.89

DIFFERENTIAL CORRECTIONS

TDE -.1455 TRA -.3399 TC3 .2933 BAU .2283
 RDE -.2576 RRA .3571 RC3 .3556 FAU .07860
 FDE -.7815 FRA -.9302 FC3-1.8370 BSP 1679
 BOE .2959 BRA .4929 BC3 .4610 FSP -616

MID-COURSE EXECUTION ACCURACY

SGT 498.6 SGR 599.3 SG3 217.0
 RRT .2685 RRF -.7200 RTF -.3334
 SGB 779.6 R23 -.1179 R13 -.7250
 SG1 633.5 SG2 454.4 THA 62.28

ORBIT DETERMINATION ACCURACY

ST 167.6 SR 263.0 SS 363.5
 CRT .5374 CRS -.7326 CST -.9533
 LSA 446.9 MSA 170.3 SSA 26.9
 EL1 282.8 EL2 131.5 ALF 65.46

LAUNCH DATE FEB 28 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 221.550

RL 148.20 LAL -.00 LOL 159.23 VL 28.365 GAL -10.59 AZL 90.21 HCA 100.68 SMA 134.54 ECC .20912 INC .2119 VI 30.065
 RP 108.67 LAP -.21 LOP 259.92 VP 38.159 GAP -4.80 AZP 89.96 TAL 230.91 TAP 331.59 RCA 106.41 APO 162.68 V2 34.873
 RC 68.274 GL -.98 GP 26.41 ZAL 158.81 ZAP 48.58 ETS 336.91 ZAE 148.24 ETE 47.73 ZAC 118.24 ETC 147.57 CLP -42.38

PLANETOCENTRIC CONIC

C3 36.455 VHL 6.038 DLA -.74 RAL .76 RAD 6568.4 VEL 12.563 PTH 2.28 VHP 5.110 DPA 36.27 RAP 24.30 ECC 1.6000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 59 2340.00 -22.40 49.59 232.04 107.79 1 38 59 1740.0 -19.76 41.91
 90.00 12 47 3 5029.86 23.32 221.58 232.53 73.47 14 10 53 4429.9 -20.84 213.79
 100.00 2 20 59 2078.72 -23.63 29.93 231.60 108.86 2 55 37 1478.7 -20.83 22.25
 100.00 14 8 44 4766.38 24.56 201.79 232.11 72.40 15 28 11 4166.4 21.92 193.99
 110.00 3 28 26 1867.57 -26.92 12.55 230.24 111.90 3 59 34 1267.6 -23.71 4.86
 110.00 15 17 46 4550.29 27.88 184.11 230.83 69.37 16 33 37 3950.3 24.82 176.27

DIFFERENTIAL CORRECTIONS

TDE -.1500 TRA -.3612 TC3 .2619 BAU .2352
 RDE -.2274 RRA .3759 RC3 .4053 FAU .08517
 FDE -.9021 FRA -1.0126 FC3 -2.0227 BSP 1755
 BOE .2724 BRA .5213 BC3 .4825 FSP -685

MID-COURSE EXECUTION ACCURACY

SGT 487.6 SGR 642.9 SG3 238.5
 RRT .2016 RRF -.7625 RTF -.2385
 SGB 806.9 R23 -.0853 R13 -.7627
 SG1 658.6 SG2 466.2 THA 72.12

ORBIT DETERMINATION ACCURACY

ST 175.9 SR 241.3 SS 400.1
 CRT .4678 CRS -.6987 CST -.9463
 LSA 467.7 MSA 172.6 SSA 26.7
 EL1 262.1 EL2 143.1 ALF 62.26

LAUNCH DATE FEB 28 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 228.129

RL 148.20 LAL -.00 LOL 159.23 VL 28.408 GAL -10.51 AZL 90.41 HCA 103.85 SMA 134.87 ECC .20667 INC .4075 VI 30.065
 RP 108.70 LAP -.40 LOP 263.09 VP 38.181 GAP -4.16 AZP 89.90 TAL 231.44 TAP 335.29 RCA 107.00 APO 162.74 V2 34.862
 RC 70.456 GL -1.90 GP 28.12 ZAL 159.07 ZAP 52.95 ETS 339.09 ZAE 148.20 ETE 53.67 ZAC 116.28 ETC 147.81 CLP -46.91

PLANETOCENTRIC CONIC

C3 35.921 VHL 5.993 DLA -1.71 RAL .83 RAD 6568.4 VEL 12.542 PTH 2.27 VHP 4.889 DPA 37.26 RAP 22.01 ECC 1.5912
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 7 28 2306.13 -21.68 47.37 231.55 108.68 1 45 54 1706.1 -18.93 39.77
 90.00 12 40 7 5056.28 23.82 223.36 232.67 74.22 14 4 24 4456.3 21.43 215.50
 100.00 2 28 1 2046.31 -22.90 27.80 231.09 109.76 3 2 7 1446.3 -20.00 20.21
 100.00 14 2 16 4791.34 25.06 203.48 232.28 73.15 15 22 7 4191.3 22.51 195.60
 110.00 3 34 26 1838.40 -26.17 10.62 229.69 112.82 4 5 4 1238.4 -22.85 3.04
 110.00 15 12 20 4572.01 28.39 185.59 231.04 70.11 16 28 32 3972.0 25.42 177.68

DIFFERENTIAL CORRECTIONS

TDE -.1594 TRA -.3888 TC3 .2200 BAU .2442
 RDE -.1936 FRA .3944 RC3 .4585 FAU .09160
 FDE -1.0292 FRA -1.0876 FC3 -2.2076 BSP 1864
 BOE .2508 BRA .5538 BC3 .5085 FSP -756

MID-COURSE EXECUTION ACCURACY

SGT 480.7 SGR 691.8 SG3 260.0
 RRT .0989 RRF -.7997 RTF -.1114
 SGB 842.4 R23 -.0389 R13 -.7994
 SG1 694.9 SG2 476.2 THA 82.56

ORBIT DETERMINATION ACCURACY

ST 189.0 SR 217.5 SS 437.3
 CRT .3821 CRS -.6458 CST -.9409
 LSA 493.6 MSA 173.2 SSA 26.5
 EL1 241.4 EL2 157.4 ALF 55.12

LAUNCH DATE FEB 28 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 234.672

RL 148.20 LAL -.00 LOL 159.23 VL 28.440 GAL -10.43 AZL 90.61 HCA 107.02 SMA 135.12 ECC .20451 INC .6083 VI 30.065
 RP 108.73 LAP -.58 LOP 266.26 VP 38.197 GAP -3.55 AZP 89.82 TAL 231.83 TAP 338.85 RCA 107.49 APO 162.75 V2 34.853
 RC 72.672 GL -2.86 GP 29.87 ZAL 159.19 ZAP 57.46 ETS 341.35 ZAE 147.96 ETE 60.09 ZAC 114.15 ETC 148.24 CLP -51.66

PLANETOCENTRIC CONIC

C3 35.431 VHL 5.952 DLA -2.68 RAL 1.00 RAD 6568.4 VEL 12.522 PTH 2.27 VHP 4.703 DPA 38.17 RAP 19.44 ECC 1.5831
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 15 23 2272.53 -20.93 45.19 231.22 109.52 1 53 15 1672.5 -18.08 37.67
 90.00 12 33 36 5082.94 24.30 225.16 232.96 75.00 13 58 19 4482.9 22.01 217.24
 100.00 2 35 28 2014.17 -22.14 25.71 230.74 110.61 3 9 3 1414.2 -19.14 18.20
 100.00 13 56 12 4816.54 25.55 205.19 232.58 73.93 15 16 29 4216.5 23.10 197.25
 110.00 3 40 51 1809.52 -25.39 8.73 229.29 113.69 4 11 0 1209.5 -21.97 1.25
 110.00 15 7 19 4593.95 28.89 187.10 231.38 70.88 16 23 53 3994.0 26.01 179.11

DIFFERENTIAL CORRECTIONS

TDE -.1738 TRA -.4218 TC3 .1682 BAU .2566
 RDE -.1557 RRA .4125 RC3 .5150 FAU .09773
 FDE -1.1622 FRA -1.1536 FC3 -2.3880 BSP 2030
 BOE .2333 BRA .5900 BC3 .5418 FSP -831

MID-COURSE EXECUTION ACCURACY

SGT 483.0 SGR 745.9 SG3 280.9
 RRT -.0382 RRF -.8318 RTF .0444
 SGB 888.6 R23 .0101 R13 -.8319
 SG1 746.3 SG2 482.4 THA 92.43

ORBIT DETERMINATION ACCURACY

ST 207.1 SR 192.4 SS 475.6
 CRT .2671 CRS -.5610 CST -.9377
 LSA 525.2 MSA 172.2 SSA 26.3
 EL1 225.8 EL2 170.1 ALF 37.32

LAUNCH DATE FEB 28 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 241.179

RL 148.20 LAL -.00 LOL 159.23 VL 28.462 GAL -10.34 AZL 90.82 HCA 110.19 SMA 135.30 ECC .20259 INC .8160 VI 30.065
 RP 108.76 LAP -.77 LOP 269.42 VP 38.205 GAP -2.96 AZP 89.72 TAL 232.07 TAP 342.26 RCA 107.89 APO 162.71 V2 34.844
 RC 74.919 GL -3.87 GP 31.65 ZAL 159.17 ZAP 62.96 ETS 343.75 ZAE 147.45 ETE 66.85 ZAC 111.88 ETC 148.86 CLP -56.61

PLANETOCENTRIC CONIC

C3 34.976 VHL 5.914 DLA -3.66 RAL 1.28 RAD 6568.4 VEL 12.504 PTH 2.26 VHP 4.552 DPA 39.01 RAP 16.64 ECC 1.5756
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 47 2238.89 -20.15 43.03 231.02 110.33 2 1 6 1638.9 -17.20 35.59
 90.00 12 27 26 5110.06 24.77 227.01 233.37 75.82 13 52 36 4510.1 22.58 219.03
 100.00 2 43 25 1982.01 -21.36 23.65 230.53 111.43 3 16 27 1382.0 -18.26 16.22
 100.00 13 50 29 4842.17 26.02 206.95 233.01 74.74 15 11 11 4242.2 23.67 198.94
 110.00 3 47 44 1780.65 -24.59 6.88 229.04 114.53 4 17 25 1180.7 -21.07 359.49
 110.00 15 2 40 4616.29 29.38 188.66 231.86 71.68 16 19 36 4016.3 26.60 180.58

DIFFERENTIAL CORRECTIONS

TDE -.1959 TRA -.4622 TC3 .1037 BAU .2721
 RDE -.1152 RRA .4279 RC3 .5726 FAU .10304
 FDE -1.2920 FRA -1.2005 FC3 -2.5506 BSP 2220
 BOE .2273 BRA .6298 BC3 .5819 FSP -894

MID-COURSE EXECUTION ACCURACY

SGT 502.4 SGR 802.3 SG3 299.6
 RRT -.2038 RRF -.8582 RTF .2241
 SGB 946.6 R23 .0526 R13 -.8580
 SG1 812.5 SG2 485.6 THA 101.39

ORBIT DETERMINATION ACCURACY

ST 232.7 SR 168.5 SS 512.4
 CRT .1142 CRS -.4293 CST -.9378
 LSA 561.8 MSA 169.6 SSA 26.0
 EL1 234.3 EL2 166.2 ALF 9.58

LAUNCH DATE FEB 28 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.476 GAL -10.26 AZL 91.03 HCA 113.35 SMA 135.41 ECC .20088 INC 1.0321 V1 30.065
 RP 108.78 LAP -.95 LOP 272.59 VP 38.208 GAP -2.41 AZP 89.59 TAL 232.18 TAP 345.53 RCA 108.21 APO 162.61 V2 34.835
 RC 77.194 GL -4.93 GP 33.42 ZAL 159.00 ZAP 66.73 ETS 346.29 ZAE 146.62 ETE 73.78 ZAC 109.52 ETC 149.66 CLP -61.75

PLANETOCENTRIC CONIC
 C3 34.552 VHL 5.878 DLA -4.65 RAL 1.66 RAD 6568.4 VEL 12.487 PTH 2.26 VHP 4.435 DPA 39.75 RAP 13.64 ECC 1.5686
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 32 44 2204.86 -19.33 40.87 230.97 111.10 2 9 29 1604.9 -16.29 33.51
 90.00 12 21 31 5137.92 25.22 228.93 233.92 76.68 13 47 9 4537.9 23.14 220.88
 100.00 2 51 54 1949.51 -20.53 21.58 230.46 112.21 3 24 23 1349.5 -17.34 14.24
 100.00 13 45 3 4868.51 26.48 208.77 233.58 75.59 15 6 11 4268.5 24.24 200.69
 110.00 3 55 8 1751.54 -23.75 5.03 228.93 115.34 4 24 20 1151.5 -20.14 357.74
 110.00 14 58 18 4639.24 29.86 190.27 232.48 72.53 16 15 37 4039.2 27.18 182.11

DIFFERENTIAL CORRECTIONS
 TDE -.2250 TRA -.5073 TC3 .0288 BAU .2919
 RDE -.0709 RRA .4409 RC3 .6313 FAU .10753
 FDE -1.4202 FRA -1.2311 FC3 -2.6942 BSP 2478
 BOE .2359 BRA .6721 BC3 .6319 FSP -957

MID-COURSE EXECUTION ACCURACY
 SGT 543.5 SGR 861.1 SG3 316.3
 RRT -.3711 RRF -.8801 RTF .3990
 SGB 1018.2 R23 .0845 R13 -.8795
 SG1 895.1 SG2 485.5 THA 108.95

ORBIT DETERMINATION ACCURACY
 ST 265.0 SR 148.3 SS 549.5
 CRT -.1036 CRS -.2202 CST -.9401
 LSA 605.0 MSA 165.8 SSA 25.6
 EL1 265.7 EL2 147.2 ALF 175.21

LAUNCH DATE FEB 28 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.483 GAL -10.17 AZL 91.26 HCA 116.52 SMA 135.46 ECC .19933 INC 1.2586 V1 30.065
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.205 GAP -1.88 AZP 89.44 TAL 232.15 TAP 348.67 RCA 108.46 APO 162.46 V2 34.827
 RC 79.493 GL -6.05 GP 35.17 ZAL 158.69 ZAP 71.40 ETS 348.99 ZAE 145.46 ETE 80.68 ZAC 107.11 ETC 150.61 CLP -67.03

PLANETOCENTRIC CONIC
 C3 34.155 VHL 5.844 DLA -5.66 RAL 2.15 RAD 6568.3 VEL 12.471 PTH 2.26 VHP 4.352 DPA 40.40 RAP 10.53 ECC 1.5621
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 21 2170.09 -18.46 38.68 231.05 111.86 2 18 31 1570.1 -15.34 31.40
 90.00 12 15 47 5166.85 25.66 230.94 234.61 77.59 13 41 54 4566.9 23.69 222.82
 100.00 3 1 1 1916.33 -19.67 19.50 230.52 112.98 3 32 57 1316.3 -16.39 12.24
 100.00 13 39 48 4895.85 26.93 210.68 234.29 76.50 15 1 24 4295.9 24.80 202.53
 110.00 4 3 8 1721.87 -22.88 3.17 228.95 116.12 4 31 50 1121.9 -19.18 355.98
 110.00 14 54 11 4663.07 30.33 191.97 233.24 73.43 16 11 54 4063.1 27.77 183.71

DIFFERENTIAL CORRECTIONS
 TDE -.2632 TRA -.5581 TC3 -.0581 BAU .3151
 RDE -.0250 RRA .4488 RC3 .6877 FAU .11061
 FDE -1.5358 FRA -1.2348 FC3 -2.8037 BSP 2763
 BOE .2644 BRA .7161 BC3 .6901 FSP -1001

MID-COURSE EXECUTION ACCURACY
 SGT 611.1 SGR 917.7 SG3 328.8
 RRT -.5196 RRF -.8976 RTF .5504
 SGB 1102.6 R23 .1086 R13 -.8964
 SG1 990.9 SG2 483.6 THA 115.60

ORBIT DETERMINATION ACCURACY
 ST 306.3 SR 137.0 SS 583.8
 CRT -.3716 CRS .0651 CST -.9443
 LSA 653.3 MSA 161.0 SSA 25.2
 EL1 311.3 EL2 125.2 ALF 168.71

LAUNCH DATE FEB 28 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.482 GAL -10.07 AZL 91.50 HCA 119.68 SMA 135.45 ECC .19791 INC 1.4980 V1 30.065
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.198 GAP -1.37 AZP 89.26 TAL 232.01 TAP 351.69 RCA 108.64 APO 162.26 V2 34.820
 RC 81.813 GL -7.25 GP 36.89 ZAL 158.22 ZAP 76.00 ETS 351.87 ZAE 143.98 ETE 87.35 ZAC 104.69 ETC 151.69 CLP -72.40

PLANETOCENTRIC CONIC
 C3 33.786 VHL 5.813 DLA -6.71 RAL 2.74 RAD 6568.3 VEL 12.456 PTH 2.25 VHP 4.302 DPA 40.96 RAP 7.35 ECC 1.5560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 44 2134.17 -17.54 36.45 231.27 112.59 2 28 18 1534.2 -14.33 29.25
 90.00 12 10 7 5197.30 26.09 233.06 235.44 78.58 13 36 44 4597.3 24.25 224.88
 100.00 3 10 53 1882.09 -18.74 17.38 230.73 113.72 3 42 15 1282.1 -15.38 10.20
 100.00 13 34 39 4924.61 27.37 212.70 235.14 77.48 14 56 44 4324.6 25.37 204.47
 110.00 4 11 48 1691.34 -21.95 1.28 229.11 116.89 4 39 59 1091.3 -18.16 354.20
 110.00 14 50 13 4688.13 30.81 193.76 234.15 74.40 16 8 21 4088.1 28.36 185.42

DIFFERENTIAL CORRECTIONS
 TDE -.3100 TRA -.6116 TC3 -.1543 BAU .3423
 RDE -.0237 RRA .4524 RC3 .7420 FAU .11242
 FDE -1.6424 FRA -1.2181 FC3 -2.8808 BSP 3111
 BOE .3110 BRA .7607 BC3 .7579 FSP -1041

MID-COURSE EXECUTION ACCURACY
 SGT 702.9 SGR 972.7 SG3 337.9
 RRT -.6354 RRF -.9119 RTF .6655
 SGB 1200.1 R23 .1257 R13 -.9100
 SG1 1099.9 SG2 480.0 THA 121.25

ORBIT DETERMINATION ACCURACY
 ST 355.8 SR 139.1 SS 617.8
 CRT -.6425 CRS .3861 CST -.9493
 LSA 709.1 MSA 155.7 SSA 24.7
 EL1 367.9 EL2 103.1 ALF 164.66

LAUNCH DATE FEB 28 1969

FLIGHT TIME 92.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.475 GAL -9.97 AZL 91.75 HCA 122.84 SMA 135.39 ECC .19661 INC 1.7527 V1 30.065
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.186 GAP -.89 AZP 89.05 TAL 231.75 TAP 354.58 RCA 108.77 APO 162.01 V2 34.813
 RC 84.153 GL -8.53 GP 38.55 ZAL 157.60 ZAP 80.49 ETS 354.90 ZAE 142.20 ETE 93.66 ZAC 102.33 ETC 152.86 CLP -77.81

PLANETOCENTRIC CONIC
 C3 33.448 VHL 5.783 DLA -7.81 RAL 3.44 RAD 6568.3 VEL 12.443 PTH 2.25 VHP 4.285 DPA 41.45 RAP 4.19 ECC 1.5505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 2 2096.66 -16.54 34.15 231.64 113.31 2 38 58 1496.7 -13.25 27.02
 90.00 12 4 24 5229.75 26.50 235.35 236.43 79.65 13 31 34 4629.7 24.81 227.09
 100.00 3 21 36 1846.38 -17.75 15.19 231.08 114.45 3 52 23 1246.4 -14.30 8.09
 100.00 13 29 30 4955.26 27.80 214.88 236.15 78.55 14 52 6 4355.3 25.94 206.57
 110.00 4 21 16 1659.59 -20.96 359.35 229.42 117.64 4 48 55 1059.6 -17.09 352.36
 110.00 14 46 20 4714.81 31.28 195.70 235.23 75.45 16 4 55 4114.8 28.96 187.26

DIFFERENTIAL CORRECTIONS
 TDE -.3670 TRA -.6674 TC3 -.2595 BAU .3719
 RDE .0728 RRA .4488 RC3 .7902 FAU .11251
 FDE -1.7289 FRA -1.1727 FC3 -2.9121 BSP 3476
 BOE .3742 BRA .8042 BC3 .8317 FSP -1057

MID-COURSE EXECUTION ACCURACY
 SGT 817.1 SGR 1020.8 SG3 341.8
 RRT -.7194 RRF -.9232 RTF .7474
 SGB 1307.6 R23 .1396 R13 -.9204
 SG1 1218.0 SG2 475.7 THA 126.34

ORBIT DETERMINATION ACCURACY
 ST 415.2 SR 155.2 SS 648.4
 CRT -.8292 CRS .6389 CST -.9545
 LSA 770.5 MSA 150.0 SSA 24.1
 EL1 435.4 EL2 82.7 ALF 162.11

LAUNCH DATE FEB 28 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 273.184

RL 148.20 LAL -0.00 LOL 159.23 VL 28.462 GAL -9.86 AZL 92.03 HCA 126.00 SMA 135.29 ECC .19541 INC 2.0261 V1 30.065
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.171 GAP -.43 AZP 88.81 TAL 231.38 TAP 357.37 RCA 108.85 APO 161.73 V2 34.807
 RC 86.508 GL -9.92 GP 40.15 ZAL 156.81 ZAP 84.80 ETS 358.09 ZAE 140.17 ETE 99.48 ZAC 100.05 ETC 154.07 CLP -83.19

PLANETOCENTRIC CONIC

C3 33.149 VHL 5.758 DLA -8.97 RAL 4.25 RAD 6568.3 VEL 12.431 PTH 2.25 VHP 4.299 DPA 41.89 RAP 1.10 ECC 1.5456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 16 24 2057.02 -15.46 31.75 232.17 114.02 2 50 41 1457.0 -12.08 24.69
 90.00 11 58 31 5264.86 26.91 237.84 237.59 80.83 13 26 16 4664.9 25.37 229.51
 100.00 3 33 22 1808.72 -16.67 12.91 231.59 115.17 4 3 31 1208.7 -13.14 5.90
 100.00 13 24 14 4988.39 28.23 217.25 237.34 79.72 14 47 22 4388.4 26.52 208.86
 110.00 4 31 38 1626.24 -19.89 357.35 229.88 118.39 4 58 45 1026.2 -15.94 350.46
 110.00 14 42 27 4743.64 31.75 197.81 236.49 76.62 16 1 30 4143.6 29.59 189.27

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4340 TRA -.7229 TC3 -.3705 BAU .4043 SGT 948.1 SGR 1064.2 SG3 341.9 ST 484.2 SR 183.6 SS 678.6
 RDE .1240 RRA .4396 RC3 .8335 FAU .11126 RRT -.7783 RRF -.9326 RTF .8038 CRT -.9302 CRS .8010 CST -.9597
 FDE -1.8022 FRA -1.088 FC3 -2.9056 BSP 3893 SGB 1425.3 R23 .1507 R13 -.9287 LSA 841.0 MSA 144.4 SSA 23.4
 BDE .4513 BRA .8461 BC3 .9122 FSP -1068 SG1 1345.3 SG2 470.9 THA 130.77 EL1 513.9 EL2 63.5 ALF 160.26

LAUNCH DATE FEB 28 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 279.484

RL 148.20 LAL -0.00 LOL 159.23 VL 28.443 GAL -9.75 AZL 92.32 HCA 129.15 SMA 135.15 ECC .19428 INC 2.3223 V1 30.065
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.152 GAP .01 AZP 88.53 TAL 230.91 TAP .06 RCA 108.89 APO 161.40 V2 34.802
 RC 88.877 GL -11.42 GP 41.72 ZAL 155.86 ZAP 88.88 ETS 1.41 ZAE 137.94 ETE 104.78 ZAC 97.89 ETC 155.29 CLP -88.50

PLANETOCENTRIC CONIC

C3 32.900 VHL 5.736 DLA -10.21 RAL 5.18 RAD 6568.3 VEL 12.421 PTH 2.24 VHP 4.344 DPA 42.33 RAP 358.13 ECC 1.5414
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 4 2014.64 -14.27 29.20 232.88 114.72 3 3 39 1414.6 -10.82 22.23
 90.00 11 52 17 5303.42 27.30 240.59 238.95 82.16 13 20 41 4703.4 25.93 232.19
 100.00 3 46 21 1768.54 -15.49 10.51 232.28 115.89 4 15 50 1168.5 -11.89 3.58
 100.00 13 18 41 5024.75 28.64 219.87 238.72 81.05 14 42 26 4424.8 27.10 211.41
 110.00 4 43 6 1590.83 -18.73 355.26 230.52 119.13 5 9 37 990.8 -14.70 348.46
 110.00 14 38 26 4775.23 32.23 200.15 237.95 77.93 15 58 1 4175.2 30.23 191.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5116 TRA -.7762 TC3 -.4855 BAU .4384 SGT 1091.9 SGR 1104.3 SG3 339.0 ST 563.3 SR 225.5 SS 714.4
 RDE .1815 RRA .4291 RC3 .8704 FAU .10867 RRT -.8227 RRF -.9408 RTF .8449 CRT -.9766 CRS .8953 CST -.9649
 FDE -1.8763 FRA -1.0442 FC3 -2.8595 BSP 4354 SGB 1552.9 R23 .1573 R13 -.9359 LSA 926.6 MSA 139.2 SSA 22.2
 BDE .5429 BRA .8869 BC3 .9966 FSP -1071 SG1 1482.5 SG2 462.4 THA 134.61 EL1 605.1 EL2 45.2 ALF 158.53

LAUNCH DATE FEB 28 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 285.753

RL 148.20 LAL -0.00 LOL 159.23 VL 28.420 GAL -9.63 AZL 92.65 HCA 132.31 SMA 134.96 ECC .19323 INC 2.6462 V1 30.065
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.131 GAP .43 AZP 88.22 TAL 230.34 TAP 2.65 RCA 108.89 APO 161.04 V2 34.797
 RC 91.256 GL -13.07 GP 43.26 ZAL 154.71 ZAP 92.67 ETS 4.85 ZAE 135.56 ETE 109.52 ZAC 95.87 ETC 156.48 CLP -93.67

PLANETOCENTRIC CONIC

C3 32.714 VHL 5.720 DLA -11.55 RAL 6.25 RAD 6568.3 VEL 12.413 PTH 2.24 VHP 4.420 DPA 42.80 RAP 355.29 ECC 1.5384
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 45 21 1968.76 -12.95 26.48 233.80 115.41 3 18 10 1368.8 -9.42 19.58
 90.00 11 45 31 5346.44 27.66 243.69 240.53 83.68 13 14 38 4746.4 26.49 235.22
 100.00 4 0 51 1725.18 -14.19 7.95 233.17 116.59 4 29 36 1125.2 -10.51 1.10
 100.00 13 12 42 5065.26 29.03 222.82 240.34 82.55 14 37 7 4465.3 27.70 214.27
 110.00 4 55 53 1552.85 -17.46 353.05 231.35 119.87 5 21 45 952.9 -13.35 346.35
 110.00 14 34 10 4810.35 32.70 202.79 239.66 79.42 15 54 20 4210.3 30.89 194.03

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6014 TRA -.8260 TC3 -.6019 BAU .4717 SGT 1245.2 SGR 1125.3 SG3 328.2 ST 653.9 SR 260.7 SS 732.0
 RDE .2277 RRA .3990 RC3 .8948 FAU .10424 RRT -.8470 RRF -.9465 RTF .8686 CRT -.9918 CRS .9394 CST -.9688
 FDE -1.8901 FRA -.9198 FC3 -2.7587 BSP 4767 SGB 1678.3 R23 .1708 R13 -.9395 LSA 1006.4 MSA 134.7 SSA 21.3
 BDE .6431 BRA .9173 BC3 1.0784 FSP -1037 SG1 1613.6 SG2 461.5 THA 138.41 EL1 703.3 EL2 30.9 ALF 158.38

LAUNCH DATE FEB 28 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 291.991

RL 148.20 LAL -0.00 LOL 159.23 VL 28.392 GAL -9.50 AZL 93.00 HCA 135.46 SMA 134.75 ECC .19224 INC 3.0043 V1 30.065
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.107 GAP .83 AZP 87.86 TAL 229.69 TAP 5.15 RCA 108.85 APO 160.65 V2 34.793
 RC 93.644 GL -14.89 GP 44.81 ZAL 153.37 ZAP 96.15 ETS 8.40 ZAE 133.07 ETE 113.74 ZAC 94.01 ETC 157.62 CLP -98.68

PLANETOCENTRIC CONIC

C3 32.615 VHL 5.711 DLA -13.02 RAL 7.46 RAD 6568.3 VEL 12.409 PTH 2.24 VHP 4.529 DPA 43.35 RAP 352.60 ECC 1.5368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 36 1918.45 -11.46 23.54 234.96 116.07 3 34 34 1318.4 -7.86 16.71
 90.00 11 37 57 5395.24 27.97 247.23 242.37 85.42 13 7 52 4795.2 27.05 238.68
 100.00 4 17 11 1677.80 -12.73 5.19 234.31 117.28 4 45 9 1077.8 -8.97 358.42
 100.00 13 6 3 5111.12 29.39 226.18 242.22 84.28 14 31 14 4511.1 28.29 217.55
 110.00 5 10 13 1511.69 -16.05 350.70 232.42 120.60 5 35 25 911.7 -11.87 344.08
 110.00 14 29 30 4849.99 33.15 205.79 241.66 81.14 15 50 20 4250.0 31.57 196.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7039 TRA -.8695 TC3 -.7164 BAU .5054 SGT 1403.5 SGR 1142.5 SG3 315.4 ST 755.9 SR 305.1 SS 755.6
 RDE .2806 RRA .3674 RC3 .9111 FAU .09884 RRT -.8662 RRF -.9519 RTF .8868 CRT -.9974 CRS .9665 CST -.9726
 FDE -1.9070 FRA -.8027 FC3 -2.6236 BSP 5211 SGB 1809.8 R23 .1811 R13 -.9428 LSA 1103.6 MSA 131.2 SSA 19.9
 BDE .7577 BRA .9440 BC3 1.1590 FSP -998 SG1 1751.0 SG2 457.6 THA 141.73 EL1 814.9 EL2 20.6 ALF 158.06

LAUNCH DATE FEB 28 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 298.200

RL 148.20 LAL -.00 LOL 159.23 VL 28.361 GAL -9.37 AZL 93.40 HCA 138.61 SMA 134.51 ECC .19130 INC 3.4046 V1 30.065
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.080 GAP 1.21 AZP 87.44 TAL 228.96 TAP 7.57 RCA 108.77 APO 160.24 V2 34.789
 RC 96.038 GL -16.91 GP 46.41 ZAL 151.79 ZAP 99.26 ETS 12.06 ZAE 130.48 ETE 117.45 ZAC 92.30 ETC 158.69 CLP-103.50

PLANETOCENTRIC CONIC

C3 32.638 VHL 5.713 DLA -14.63 RAL 8.84 RAD 6568.3 VEL 12.410 PTH 2.24 VHP 4.671 DPA 44.01 RAP 350.03 ECC 1.5371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 20 1862.44 -9.76 20.30 236.44 116.71 3 53 23 1262.4 -6.10 13.53
 90.00 11 29 12 5451.59 28.21 251.33 244.52 87.47 13 0 3 4851.6 27.56 242.72
 100.00 4 35 49 1625.34 -11.07 2.18 235.75 117.94 5 2 55 1025.3 -7.25 355.48
 100.00 12 58 24 5163.92 29.69 230.08 244.42 86.31 14 24 28 4563.9 28.86 221.37
 110.00 5 26 30 1466.60 -14.47 348.16 233.77 121.31 5 50 57 866.6 -10.22 341.64
 110.00 14 24 12 4895.43 33.57 209.27 244.00 83.16 15 45 48 4295.4 32.26 200.28

DIFFERENTIAL CORRECTIONS

TDE -.8213 TRA -.9051 TC3 -.8257 BAU .5389
 RDE .3363 RRA .3298 RC3 .9184 FAU .09264
 FDE -1.9128 FRA -.6806 FC3-2.4572 BSP 5680
 BOE .8874 BRA .9633 BC3 1.2350 FSP -955

MID-COURSE EXECUTION ACCURACY

SGT 1564.8 SGR 1154.0 SG3 300.1
 RRT -.8797 RRF -.9567 RTF .9000
 SGB 1944.3 R23 .1911 R13 -.9455
 SG1 1890.5 SG2 454.3 THA 144.68

ORBIT DETERMINATION ACCURACY

ST 870.9 SR 353.9 SS 779.6
 CRT -.9978 CRS .9819 CST -.9760
 LSA 1214.3 MSA 128.9 SSA 18.3
 EL1 939.8 EL2 21.6 ALF 157.92

LAUNCH DATE FEB 28 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 304.380

RL 148.20 LAL -.00 LOL 159.23 VL 28.326 GAL -9.23 AZL 93.86 HCA 141.76 SMA 134.24 ECC .19042 INC 3.8583 V1 30.065
 RP 108.94 LAP -2.39 LOP 301.05 VP 38.052 GAP 1.58 AZP 86.97 TAL 228.14 TAP 9.90 RCA 108.68 APO 159.80 V2 34.787
 RC 98.436 GL -19.17 GP 48.10 ZAL 149.95 ZAP 101.99 ETS 15.84 ZAE 127.81 ETE 120.71 ZAC 90.73 ETC 159.68 CLP-108.12

PLANETOCENTRIC CONIC

C3 32.827 VHL 5.730 DLA -16.42 RAL 10.41 RAD 6568.3 VEL 12.418 PTH 2.24 VHP 4.851 DPA 44.82 RAP 347.53 ECC 1.5403
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 19 1799.02 -7.80 16.67 238.31 117.31 4 15 18 1199.0 -4.08 9.97
 90.00 11 18 45 5517.93 28.32 256.18 247.02 89.89 12 50 43 4917.9 28.00 247.53
 100.00 4 57 25 1566.37 -9.17 358.83 237.57 118.58 5 23 31 966.4 -5.29 352.20
 100.00 12 49 19 5225.82 29.87 234.67 247.00 88.72 14 16 25 4625.8 29.37 225.90
 110.00 5 45 12 1416.64 -12.68 345.39 235.48 122.01 6 8 49 816.6 -8.36 338.96
 110.00 14 18 1 4948.31 33.93 213.36 246.76 85.56 15 40 30 4348.3 32.94 204.26

DIFFERENTIAL CORRECTIONS

TDE -.9562 TRA -.9302 TC3 -.9261 BAU .5708
 RDE .3934 RRA .2839 RC3 .9132 FAU .08554
 FDE -1.9031 FRA -.5508 FC3-2.2560 BSP 6128
 BOE 1.0340 BRA .9726 BC3 1.3006 FSP -897

MID-COURSE EXECUTION ACCURACY

SGT 1726.6 SGR 1156.5 SG3 281.8
 RRT -.8883 RRF -.9609 RTF .9094
 SGB 2078.1 R23 .2019 R13 -.9473
 SG1 2028.3 SG2 452.1 THA 147.43

ORBIT DETERMINATION ACCURACY

ST 1000.0 SR 404.5 SS 801.5
 CRT -.9963 CRS .9907 CST -.9790
 LSA 1337.7 MSA 128.1 SSA 16.4
 EL1 1078.2 EL2 32.4 ALF 158.03

LAUNCH DATE FEB 28 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 310.533

RL 148.20 LAL -.00 LOL 159.23 VL 28.288 GAL -9.08 AZL 94.38 HCA 144.90 SMA 133.95 ECC .18959 INC 4.3799 V1 30.065
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.022 GAP 1.93 AZP 86.41 TAL 227.26 TAP 12.16 RCA 108.55 APO 159.34 V2 34.785
 RC 100.837 GL -21.71 GP 49.94 ZAL 147.82 ZAP 104.29 ETS 19.75 ZAE 125.05 ETE 123.58 ZAC 89.27 ETC 160.61 CLP-112.55

PLANETOCENTRIC CONIC

C3 33.255 VHL 5.767 DLA -18.44 RAL 12.21 RAD 6568.3 VEL 12.435 PTH 2.25 VHP 5.074 DPA 45.82 RAP 345.05 ECC 1.5473
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 12 37 1725.58 -5.49 12.52 240.69 117.82 4 41 23 1125.6 -1.72 5.86
 90.00 11 5 46 5597.89 28.19 262.02 249.95 92.82 12 39 3 4997.9 28.28 253.36
 100.00 5 22 54 1498.82 -6.95 355.05 239.89 119.15 5 47 52 898.8 -3.01 348.47
 100.00 12 38 10 5299.88 29.85 240.18 250.02 91.62 14 6 30 4699.9 29.76 231.37
 110.00 6 7 1 1360.59 -10.64 342.33 237.66 122.68 6 29 41 760.6 -6.26 335.98
 110.00 14 10 33 5010.88 34.15 218.23 250.02 88.43 15 34 3 4410.9 33.56 209.04

DIFFERENTIAL CORRECTIONS

TDE -1.1139 TRA -.9433 TC3-1.0137 BAU .6017
 RDE .4551 RRA .2314 RC3 .8968 FAU .07801
 FDE -1.8859 FRA -.4232 FC3-2.0310 BSP 6601
 BOE 1.2033 BRA .9713 BC3 1.3534 FSP -839

MID-COURSE EXECUTION ACCURACY

SGT 1888.9 SGR 1154.5 SG3 262.0
 RRT -.8938 RRF -.9648 RTF .9167
 SGB 2213.8 R23 .2121 R13 -.9489
 SG1 2167.3 SG2 451.3 THA 149.91

ORBIT DETERMINATION ACCURACY

ST 1146.2 SR 459.0 SS 824.1
 CRT -.9941 CRS .9956 CST -.9818
 LSA 1478.8 MSA 128.6 SSA 14.4
 EL1 1233.9 EL2 46.2 ALF 158.26

LAUNCH DATE FEB 28 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 316.659

RL 148.20 LAL -.00 LOL 159.23 VL 28.247 GAL -8.92 AZL 94.99 HCA 148.05 SMA 133.64 ECC .18880 INC 4.9898 V1 30.065
 RP 108.95 LAP -2.64 LOP 307.38 VP 37.990 GAP 2.27 AZP 85.76 TAL 226.31 TAP 14.35 RCA 108.41 APO 158.86 V2 34.784
 RC 103.240 GL -24.59 GP 51.97 ZAL 145.33 ZAP 106.13 ETS 23.82 ZAE 122.19 ETE 126.13 ZAC 87.90 ETC 161.50 CLP-116.81

PLANETOCENTRIC CONIC

C3 34.025 VHL 5.833 DLA -20.70 RAL 14.28 RAD 6568.3 VEL 12.466 PTH 2.25 VHP 5.350 DPA 47.03 RAP 342.48 ECC 1.5600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 6 1637.75 -2.68 7.59 243.79 118.20 5 13 23 1037.8 1.12 .96
 90.00 10 48 48 5697.27 27.64 269.24 253.33 96.40 12 23 45 5097.3 28.24 260.63
 100.00 5 53 44 1419.44 -4.30 350.65 242.89 119.61 6 17 24 819.4 -1.32 344.12
 100.00 12 23 50 5390.81 29.49 246.91 253.54 95.15 13 53 41 4790.8 29.89 238.13
 110.00 6 32 53 1296.74 -8.27 338.90 240.45 123.29 6 54 30 696.7 -3.84 332.62
 110.00 14 1 11 5086.28 34.14 224.12 253.88 91.92 15 25 57 4486.3 34.02 214.87

DIFFERENTIAL CORRECTIONS

TDE -1.2997 TRA -.9401 TC3-1.0817 BAU .6297
 RDE .5197 RRA .1690 RC3 .8637 FAU .06991
 FDE -1.8567 FRA -.2942 FC3-1.7788 BSP 7038
 BOE 1.3997 BRA .9552 BC3 1.3842 FSP -768

MID-COURSE EXECUTION ACCURACY

SGT 2048.6 SGR 1143.4 SG3 240.2
 RRT -.8959 RRF -.9680 RTF .9222
 SGB 2346.1 R23 .2228 R13 -.9501
 SG1 2302.1 SG2 452.1 THA 152.27

ORBIT DETERMINATION ACCURACY

ST 1311.0 SR 514.1 SS 844.6
 CRT -.9919 CRS .9983 CST -.9843
 LSA 1636.9 MSA 130.6 SSA 12.3
 EL1 1406.9 EL2 60.9 ALF 158.70

LAUNCH DATE FEB 28 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 18 1969

MELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.204 GAL -8.76 AZL 95.72 MCA 151.19 SMA 133.31 ECC .18805 INC 5.7175 V1 30.065
 RP 108.95 LAP -2.75 LOP 310.54 VP 37.958 GAP 2.59 AZP 84.99 TAL 225.29 TAP 16.48 RCA 108.24 APO 158.38 V2 34.783
 RC 105.643 GL -27.86 GP 54.26 ZAL 142.44 ZAP 107.48 ETS 28.09 ZAE 119.19 ETE 128.46 ZAC 86.55 ETC 162.40 CLP-120.95

PLANETOCENTRIC CONIC
 C3 35.305 VHL 5.942 CLA -23.27 RAL 16.69 RAD 6568.4 VEL 12.517 PTH 2.27 VHP 5.695 DPA 48.48 RAP 339.68 ECC 1.5810
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 15 1526.52 .91 1.38 247.94 118.30 5 54 42 926.5 4.69 354.74
 90.00 10 24 52 5827.15 26.31 278.51 257.14 100.86 12 1 59 5227.2 27.55 270.06
 100.00 6 32 33 1322.21 -1.01 345.30 246.87 119.88 6 54 35 722.2 2.97 338.78
 100.00 12 4 15 5506.70 28.48 255.37 257.58 99.49 13 36 2 4906.7 29.50 246.72
 110.00 7 4 20 1222.54 -5.48 334.97 244.09 123.79 7 24 43 622.5 -1.00 328.75
 110.00 13 48 57 5179.13 33.69 231.33 258.41 96.16 15 15 16 4579.1 34.18 222.12

DIFFERENTIAL CORRECTIONS
 TCE-1.5251 TRA -.9181 TC3-1.1252 BAU .6556 SGT 2208.9 SGR 1127.5 SG3 217.7 ST 1499.3 SR 570.7 SS 865.6
 RDE .5902 RRA .0978 RC3 .8145 FAU .06167 RRT -.8954 RRF -.9707 RTF .9273 CRT -.9899 CRS .9995 CST -.9867
 FDE-1.8225 FRA -.1727 FC3-1.5122 BSP 7508 SGB 2480.0 R23 .2318 R13 -.9516 LSA 1817.9 MSA 133.6 SSA 10.3
 BDE 1.6353 BRA .9233 BC3 1.3890 FSP -699 SG1 2438.0 SG2 454.8 THA 154.49 EL1 1602.5 EL2 75.6 ALF 159.31

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 28 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 20 1969

MELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.159 GAL -8.58 AZL 96.61 MCA 154.32 SMA 132.97 ECC .18735 INC 6.6062 V1 30.065
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.924 GAP 2.89 AZP 84.04 TAL 224.21 TAP 18.53 RCA 108.05 APO 157.88 V2 34.783
 RC 108.045 GL -31.60 GP 56.87 ZAL 139.07 ZAP 108.31 ETS 32.63 ZAE 115.99 ETE 130.67 ZAC 85.17 ETC 163.40 CLP-125.08

PLANETOCENTRIC CONIC
 C3 37.369 VHL 6.113 CLA -26.17 RAL 19.53 RAD 6568.5 VEL 12.599 PTH 2.29 VHP 6.132 DPA 50.15 RAP 336.49 ECC 1.6150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 31 51 1364.25 6.11 352.29 253.86 117.70 6 54 35 764.3 9.77 345.53
 90.00 9 44 55 730.09 23.20 313.72 261.04 106.71 9 57 6 130.1 25.27 305.66
 100.00 7 25 5 1192.31 3.39 338.17 252.37 119.72 7 44 58 592.3 7.32 331.59
 100.00 11 34 22 5665.30 26.18 266.59 261.97 104.96 13 8 47 5065.3 27.98 258.25
 110.00 7 43 52 1135.37 -2.09 330.30 248.96 124.13 8 2 46 533.4 2.41 324.09
 110.00 13 32 4 9297.01 32.47 240.31 263.65 101.34 15 0 21 4697.0 33.69 231.29

DIFFERENTIAL CORRECTIONS
 TDE-1.8035 TRA -.8690 TC3-1.1333 BAU .6768 SGT 2366.6 SGR 1099.5 SG3 194.1 ST 1712.7 SR 621.6 SS 883.6
 RDE .6626 RRA .0126 RC3 .7421 FAU .05313 RRT -.8911 RRF -.9722 RTF .9320 CRT -.9881 CRS .9999 CST -.9889
 FDE-1.7786 FRA -.0553 FC3-1.2310 BSP 7932 SGB 2609.6 R23 .2396 R13 -.9532 LSA 2020.3 MSA 137.6 SSA 8.4
 BDE 1.9214 BRA .8691 BC3 1.3547 FSP -621 SG1 2568.8 SG2 459.7 THA 156.72 EL1 1819.8 EL2 90.0 ALF 160.22

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 28 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 22 1969

MELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.111 GAL -8.40 AZL 97.72 MCA 157.45 SMA 132.61 ECC .18669 INC 7.7232 V1 30.065
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.890 GAP 3.19 AZP 82.86 TAL 223.08 TAP 20.52 RCA 107.85 APO 157.37 V2 34.784
 RC 110.446 GL -35.86 GP 59.88 ZAL 135.15 ZAP 108.55 ETS 37.57 ZAE 112.53 ETE 132.97 ZAC 83.68 ETC 164.66 CLP-129.34

PLANETOCENTRIC CONIC
 C3 40.693 VHL 6.379 CLA -29.44 RAL 22.92 RAD 6568.6 VEL 12.730 PTH 2.31 VHP 6.700 DPA 52.03 RAP 332.64 ECC 1.6697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.60 7 12 52 1291.85 15.56 351.80 263.34 115.31 7 34 23 691.8 18.84 344.58
 98.40 9 31 1 845.55 15.57 319.03 263.35 115.30 9 45 7 245.5 18.85 311.81
 100.00 8 59 32 946.40 11.49 324.41 261.25 117.79 9 15 19 346.4 15.12 317.50
 100.00 10 27 2 666.23 19.73 307.69 265.30 112.93 10 38 8 66.2 22.66 300.13
 110.00 8 36 41 1018.40 2.31 324.30 255.72 124.11 8 53 39 418.4 6.77 318.06
 110.00 13 6 23 5455.03 29.76 251.82 269.38 107.65 14 37 18 4855.0 31.88 243.25

DIFFERENTIAL CORRECTIONS
 TDE-2.1609 TRA -.7850 TC3-1.0982 BAU .6929 SGT 2526.9 SGR 1058.6 SG3 170.4 ST 1956.4 SR 660.3 SS 900.1
 RDE .7340 RRA -.0875 RC3 .6453 FAU .04465 RRT -.8823 RRF -.9713 RTF .9377 CRT -.9862 CRS .9994 CST -.9909
 FDE-1.7305 FRA .0513 FC3 -.9500 BSP 8391 SGB 2739.7 R23 .2434 R13 -.9558 LSA 2248.0 MSA 141.9 SSA 6.7
 BDE 2.2821 BRA .7898 BC3 1.2737 FSP -546 SG1 2699.7 SG2 466.4 THA 159.06 EL1 2062.3 EL2 103.6 ALF 161.54

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 28 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 24 1969

MELIOCENTRIC CONIC
 RL 148.20 LAL -.00 LOL 159.23 VL 28.062 GAL -8.21 AZL 99.18 MCA 160.57 SMA 132.25 ECC .18606 INC 9.1781 V1 30.065
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.855 GAP 3.47 AZP 81.34 TAL 221.88 TAP 22.45 RCA 107.64 APO 156.86 V2 34.786
 RC 112.844 GL -40.70 GP 63.36 ZAL 130.60 ZAP 108.17 ETS 43.14 ZAE 108.71 ETE 135.68 ZAC 81.98 ETC 166.47 CLP-134.06

PLANETOCENTRIC CONIC
 C3 46.162 VHL 6.794 CLA -33.05 RAL 27.06 RAD 6568.7 VEL 12.943 PTH 2.36 VHP 7.465 DPA 54.04 RAP 327.77 ECC 1.7597
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.20 6 22 22 1535.01 16.27 10.48 270.39 119.17 6 47 57 935.0 20.03 3.47
 107.80 10 54 31 665.89 16.29 305.90 270.40 119.16 11 5 37 65.9 20.05 298.88
 72.20 6 22 22 1535.01 16.27 10.48 270.39 119.17 6 47 57 935.0 20.03 3.47
 107.80 10 54 31 665.89 16.29 305.90 270.40 119.16 11 5 37 65.9 20.05 298.88
 110.00 10 1 34 828.71 9.47 314.28 266.19 123.00 10 15 23 228.7 13.75 307.80
 110.00 12 14 30 5708.23 23.34 268.67 274.28 115.72 13 49 38 5108.2 26.60 261.03

DIFFERENTIAL CORRECTIONS
 TDE-2.6348 TRA -.6468 TC3-1.0080 BAU .6999 SGT 2690.1 SGR 990.9 SG3 146.5 ST 2230.9 SR 666.0 SS 912.7
 RDE .7858 RRA -.2080 RC3 .5198 FAU .03624 RRT -.8643 RRF -.9646 RTF .9449 CRT -.9834 CRS .9980 CST -.9929
 FDE-1.6769 FRA .1483 FC3 -.6797 BSP 8834 SGB 2866.8 R23 .2417 R13 -.9597 LSA 2496.4 MSA 146.0 SSA 5.2
 BDE 2.7495 BRA .6794 BC3 1.1341 FSP -469 SG1 2827.3 SG2 474.3 THA 161.81 EL1 2325.3 EL2 116.0 ALF 163.60

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE FEB 28 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 346.870

RL 148.20 LAL -.00 LOL 159.23 VL 28.012 GAL -8.00 AZL 101.16 HCA 163.67 SMA 131.88 ECC .18546 INC11.1632 V1 30.065
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.820 GAP 3.74 AZP 79.28 TAL 220.63 TAP 24.30 RCA 107.42 APO 156.34 V2 34.789
 RC 115.239 GL -46.09 GP 67.37 ZAL 125.37 ZAP 107.11 ETS 49.87 ZAE 104.40 ETE 139.42 ZAC 79.91 ETC 169.45 CLP-139.88

PLANETOCENTRIC CONIC

C3 55.575 VHL 7.455 DLA -36.91 RAL 32.19 RAD 6569.0 VEL 13.302 PTH 2.43 VHP 8.544 DPA 56.02 RAP 321.37 ECC 1.9146
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.27 6 2 42 1702.39 16.25 23.66 279.33 123.60 6 31 4 1102.4 20.55 16.97
 114.73 11 55 5 5878.91 16.26 277.88 279.34 123.60 13 33 4 5278.9 20.56 271.19
 65.27 6 2 42 1702.39 16.25 23.66 279.33 123.60 6 31 4 1102.4 20.55 16.97
 114.73 11 55 5 5878.91 16.26 277.88 279.34 123.60 13 33 4 5278.9 20.56 271.19
 65.27 6 2 42 1702.39 16.25 23.66 279.33 123.60 6 31 4 1102.4 20.55 16.97
 114.73 11 55 5 5878.91 16.26 277.88 279.34 123.60 13 33 4 5278.9 20.56 271.19

DIFFERENTIAL CORRECTIONS

TCE-3.2893 TRA -.4186 TC3 -.8538 BAU .6900
 ROE -.7634 RRA -.3528 RC3 .3656 FAU .02798
 FDE-1.6204 FRA .2374 FC3 -.4358 BSP 9240
 BOE 3.3767 BRA .5474 BC3 .9287 FSP -391

MID-COURSE EXECUTION ACCURACY

SGT 2858.9 SGR 869.7 SG3 123.0
 RRT -.8208 RRF -.9391 RTF .9546
 SGB 2988.3 R23 .2321 R13 -.9652
 SG1 2949.2 SG2 481.6 THA 165.59

ORBIT DETERMINATION ACCURACY

ST 2531.2 SR 595.7 SS 920.8
 CRT -.9760 CRS .9931 CST -.9947
 LSA 2754.6 MSA 149.2 SSA 4.0
 EL1 2597.3 EL2 126.5 ALF 167.03

LAUNCH DATE FEB 28 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 352.804

RL 148.20 LAL -.00 LOL 159.23 VL 27.960 GAL -7.78 AZL 104.04 HCA 166.75 SMA 131.50 ECC .18486 INC14.0449 V1 30.065
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.785 GAP 3.98 AZP 76.31 TAL 219.32 TAP 26.07 RCA 107.19 APO 155.81 V2 34.792
 RC 117.630 GL -51.88 GP 71.93 ZAL 119.46 ZAP 105.34 ETS 59.10 ZAE 99.37 ETE 145.65 ZAC 77.24 ETC 175.05 CLP-148.57

PLANETOCENTRIC CONIC

C3 73.024 VHL 8.545 DLA -40.73 RAL 38.61 RAD 6569.4 VEL 13.942 PTH 2.54 VHP 10.160 DPA 57.60 RAP 312.80 ECC 2.2018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.41 6 0 1 1849.44 14.96 34.91 290.52 128.33 6 30 51 1249.4 19.81 28.66
 120.59 12 49 2 5863.31 14.97 275.62 290.53 128.33 14 26 45 5263.3 19.83 269.37
 59.41 6 0 1 1849.44 14.96 34.91 290.52 128.33 6 30 51 1249.4 19.81 28.66
 120.59 12 49 2 5863.31 14.97 275.62 290.53 128.33 14 26 45 5263.3 19.83 269.37
 59.41 6 0 1 1849.44 14.96 34.91 290.52 128.33 6 30 51 1249.4 19.81 28.66
 120.59 12 49 2 5863.31 14.97 275.62 290.53 128.33 14 26 45 5263.3 19.83 269.37

DIFFERENTIAL CORRECTIONS

TDE-4.2285 TRA -.0257 TC3 -.6353 BAU .6489
 ROE .4933 RRA -.5028 RC3 .1953 FAU .02008
 FDE-1.5738 FRA .3207 FC3 -.2381 BSP 9645
 BOE 4.2572 BRA .5034 BC3 .6646 FSP -319

MID-COURSE EXECUTION ACCURACY

SGT 3036.0 SGR 647.1 SG3 100.7
 RRT -.6567 RRF -.8099 RTF .9681
 SGB 3104.2 R23 .2090 R13 -.9731
 SG1 3066.4 SG2 483.2 THA 171.83

ORBIT DETERMINATION ACCURACY

ST 2835.3 SR 356.8 SS 929.4
 CRT -.9264 CRS .9543 CST -.9966
 LSA 3001.3 MSA 149.9 SSA 3.0
 EL1 2854.6 EL2 133.5 ALF 173.34

LAUNCH DATE FEB 28 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 358.670

RL 148.20 LAL -.00 LOL 159.23 VL 27.908 GAL -7.55 AZL 108.61 HCA 169.77 SMA 131.12 ECC .18420 INC18.6118 V1 30.065
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.749 GAP 4.21 AZP 71.66 TAL 217.93 TAP 27.70 RCA 106.97 APO 155.27 V2 34.796
 RC 120.015 GL -57.59 GP 76.72 ZAL 112.97 ZAP 102.85 ETS 74.71 ZAE 93.24 ETE 158.38 ZAC 73.55 ETC 187.32 CLP-165.59

PLANETOCENTRIC CONIC

C3 109.394 VHL 10.459 DLA -43.86 RAL 46.62 RAD 6570.1 VEL 15.190 PTH 2.73 VHP 12.798 DPA 58.03 RAP 301.46 ECC 2.8004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.99 6 13 27 1989.37 11.83 44.45 304.02 132.55 6 46 36 1389.4 17.17 38.71
 125.01 13 39 31 614.25 11.85 298.39 304.03 132.55 13 49 45 14.3 17.18 292.65
 54.99 6 13 27 1989.37 11.83 44.45 304.02 132.55 6 46 36 1389.4 17.17 38.71
 125.01 13 39 31 614.25 11.85 298.39 304.03 132.55 13 49 45 14.3 17.18 292.65
 54.99 6 13 27 1989.37 11.83 44.45 304.02 132.55 6 46 36 1389.4 17.17 38.71
 125.01 13 39 31 614.25 11.85 298.39 304.03 132.55 13 49 45 14.3 17.18 292.65

DIFFERENTIAL CORRECTIONS

TDE-5.5080 TRA .7082 TC3 -.3627 BAU .5338
 ROE -.6958 RRA -.5182 RC3 .0409 FAU .01230
 FDE-1.5604 FRA .4170 FC3 -.0973 BSP 9935
 BOE 5.5518 BRA .8776 BC3 .3650 FSP -253

MID-COURSE EXECUTION ACCURACY

SGT 3157.4 SGR 554.7 SG3 80.7
 RRT .4987 RRF .3545 RTF .9847
 SGB 3205.8 R23 -.1709 R13 .9825
 SG1 3169.8 SG2 478.9 THA 5.12

ORBIT DETERMINATION ACCURACY

ST 3021.7 SR 399.1 SS 951.1
 CRT .9379 CRS -.9165 CST -.9984
 LSA 3189.4 MSA 148.7 SSA 2.2
 EL1 3044.8 EL2 137.4 ALF 7.08

LAUNCH DATE FEB 28 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 364.400

RL 148.20 LAL -.00 LOL 159.23 VL 27.854 GAL -7.28 AZL 116.85 HCA 172.68 SMA 130.73 ECC .18335 INC26.8549 V1 30.065
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.714 GAP 4.40 AZP 63.33 TAL 216.43 TAP 29.11 RCA 106.76 APO 154.70 V2 34.800
 RC 122.394 GL -61.78 GP 79.21 ZAL 106.17 ZAP 99.71 ETS 106.94 ZAE 85.07 ETE 187.95 ZAC 67.84 ETC 216.80 CLP 154.24

PLANETOCENTRIC CONIC

C3 200.638 VHL 14.165 DLA -44.88 RAL 56.03 RAD 6571.1 VEL 17.943 PTH 3.00 VHP 17.659 DPA 55.78 RAP 287.48 ECC 4.3020
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.61 6 45 38 2113.34 6.85 50.94 319.09 134.46 7 20 52 1513.3 12.41 45.52
 126.39 14 22 24 710.05 6.86 302.31 319.10 134.46 14 34 14 110.0 12.42 296.89
 53.61 6 45 38 2113.34 6.85 50.94 319.09 134.46 7 20 52 1513.3 12.41 45.52
 126.39 14 22 24 710.05 6.86 302.31 319.10 134.46 14 34 14 110.0 12.42 296.89
 53.61 6 45 38 2113.34 6.85 50.94 319.09 134.46 7 20 52 1513.3 12.41 45.52
 126.39 14 22 24 710.05 6.86 302.31 319.10 134.46 14 34 14 110.0 12.42 296.89

DIFFERENTIAL CORRECTIONS

TDE-5.6601 TRA 1.9153 TC3 -.0894 BAU .2399
 ROE -5.0513 RRA .4619 RC3 .0010 FAU .00336
 FDE-1.6484 FRA .5781 FC3 -.0145 BSP 10144
 BOE 7.5863 BRA 1.9702 BC3 .0894 FSP -202

MID-COURSE EXECUTION ACCURACY

SGT 2549.8 SGR 2060.2 SG3 64.4
 RRT .9453 RRF .9441 RTF .9989
 SGB 3278.0 R23 -.1299 R13 .9904
 SG1 3234.9 SG2 529.8 THA 38.60

ORBIT DETERMINATION ACCURACY

ST 2312.9 SR 2044.8 SS 1028.5
 CRT .9946 CRS -.9941 CST -1.0000
 LSA 3249.7 MSA 166.2 SSA 1.6
 EL1 3083.1 EL2 158.7 ALF 41.46

LAUNCH DATE FEB 28 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 369.771

RL 148.20 LAL -.00 LOL 159.23 VL 27.800 GAL -6.93 AZL 134.81 HCA 175.26 SMA 130.34 ECC .18181 INC44.8106 V1 30.065
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.679 GAP 4.48 AZP 45.29 TAL 214.65 TAP 29.91 RCA 106.65 APO 154.04 V2 34.805
 RC 124.766 GL -60.19 GP 71.51 ZAL 99.69 ZAP 96.20 ETS 150.88 ZAE 72.14 ETE 229.24 ZAC 57.29 ETC 259.37 CLP 109.91

PLANETOCENTRIC CONIC

C3 502.403 VHL 22.414 DLA -40.23 RAL 64.96 RAD 6572.4 VEL 24.974 PTH 3.34 VHP 28.170 DPA 47.28 RAP 272.64 ECC 9.2683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.14 7 48 23 2146.08 1.60 49.03 333.05 130.20 8 24 9 1546.1 6.75 43.30
 119.86 14 30 52 890.23 1.62 313.39 333.06 130.20 14 45 42 290.2 6.76 307.66
 60.14 7 48 23 2146.08 1.60 49.03 333.05 130.20 8 24 9 1546.1 6.75 43.30
 119.86 14 30 52 890.23 1.62 313.39 333.06 130.20 14 45 42 290.2 6.76 307.66
 60.14 7 48 23 2146.08 1.60 49.03 333.05 130.20 8 24 9 1546.1 6.75 43.30
 119.86 14 30 52 890.23 1.62 313.39 333.06 130.20 14 45 42 290.2 6.76 307.66

DIFFERENTIAL CORRECTIONS

TDE -.0468 TRA 2.0542 TC3 -.0139 BAU .9500
 RD-10.8638 RRA 4.1123 RC3 .1407 FAU-.01432
 FDE-1.9937 FRA .9937 FC3 .0247 BSP 9893
 BOE10.8639 BRA 4.5968 BC3 .1414 FSP -167

MID-COURSE EXECUTION ACCURACY

SGT 690.7 SGR 3163.2 SG3 53.4
 RRT .4306 RRF .9930 RTF .5343
 SGB 3237.7 R23 -.0993 R13 .9950
 SG1 3177.7 SG2 620.6 THA 84.42

ORBIT DETERMINATION ACCURACY

ST 206.7 SR 2807.6 SS 1261.5
 CRT .2040 CRS -.9989 CST -.2489
 LSA 3077.9 MSA 208.8 SSA .3
 EL1 2808.0 EL2 202.3 ALF 89.14

LAUNCH DATE FEB 28 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 373.869

RL 148.20 LAL -.00 LOL 159.23 VL 27.745 GAL -6.32 AZL 176.70 HCA 176.63 SMA 129.95 ECC .17772 INC86.6991 V1 30.065
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.644 GAP 4.20 AZP 3.31 TAL 211.94 TAP 28.57 RCA 106.86 APO 153.05 V2 34.811
 RC 127.128 GL -43.82 GP 48.60 ZAL 95.01 ZAP 93.29 ETS 171.12 ZAE 48.52 ETE 244.47 ZAC 35.63 ETC 284.00 CLP 94.98

PLANETOCENTRIC CONIC

C31580.750 VHL 39.759 DLA -22.41 RAL 68.72 RAD 6573.2 VEL 41.256 PTH 3.57 VHP 49.986 DPA 25.56 RAP 261.16 ECC27.0151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 44 46 2114.48 -17.02 35.24 333.26 112.98 9 20 0 1514.5 -13.76 28.08
 90.00 14 4 29 1041.46 15.77 333.51 347.19 113.83 14 21 50 441.5 18.86 326.19
 100.00 9 49 46 1904.70 -19.36 18.78 332.22 113.25 10 21 31 1304.7 -16.05 11.55
 100.00 15 42 10 726.48 18.08 311.41 348.27 114.21 15 54 17 126.5 21.20 304.01
 110.00 10 24 18 1796.41 -25.03 7.89 329.53 114.08 10 54 15 1196.4 -21.56 .45
 110.00 17 24 7 5695.57 23.71 267.88 351.05 115.38 18 59 3 5095.6 26.92 260.19

DIFFERENTIAL CORRECTIONS

TDE 5.0552 TRA .4800 TC3 -.0755 BAU 4.1305
 RD-11.1807 RRA 8.8098 RC3 .1803 FAU-.07020
 FDE-2.4062 FRA 2.0741 FC3 .0384 BSP 8241
 BOE12.2704 BRA 8.8228 BC3 .1955 FSP -155

MID-COURSE EXECUTION ACCURACY

SGT 947.2 SGR 2556.7 SG3 48.7
 RRT -.7978 RRF .9991 RTF -.7712
 SGB 2726.5 R23 -.1061 R13 .9943
 SG1 2671.1 SG2 546.5 THA 107.21

ORBIT DETERMINATION ACCURACY

ST 729.1 SR 1663.6 SS 1555.6
 CRT -.9608 CRS -.9997 CST .9543
 LSA 2382.9 MSA 201.9 SSA .6
 EL1 1806.8 EL2 186.2 ALF 113.09

LAUNCH DATE FEB 28 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 384.683

RL 148.20 LAL -.00 LOL 159.23 VL 27.690 GAL -7.08 AZL 41.29 HCA 184.51 SMA 129.57 ECC .18855 INC48.7111 V1 30.065
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.609 GAP 5.80 AZP 138.62 TAL 213.72 TAP 38.23 RCA 105.14 APO 154.00 V2 34.818
 RC 129.481 GL 58.75 GP -69.05 ZAL 99.12 ZAP 97.53 ETS 190.77 ZAE 74.40 ETE 114.69 ZAC 83.48 ETC 88.70 CLP 111.50

PLANETOCENTRIC CONIC

C3 583.292 VHL 24.151 DLA 71.04 RAL 5.66 RAD 6572.5 VEL 26.544 PTH 3.38 VHP 29.949 DPA -86.24 RAP 117.91 ECC10.5995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 21.66 13 54 42 5053.40 -1.62 247.12 275.11 18.97 15 18 55 4453.4 -9.18 244.91
 158.34 0 31 28 3293.87 -1.62 95.81 275.10 18.97 1 26 22 2693.9 -9.18 93.60
 21.66 13 54 42 5053.40 -1.62 247.12 275.11 18.97 15 18 55 4453.4 -9.18 244.91
 158.34 0 31 28 3293.87 -1.62 95.81 275.10 18.97 1 26 22 2693.9 -9.18 93.60
 21.66 13 54 42 5053.40 -1.62 247.12 275.11 18.97 15 18 55 4453.4 -9.18 244.91
 158.34 0 31 28 3293.87 -1.62 95.81 275.10 18.97 1 26 22 2693.9 -9.18 93.60

DIFFERENTIAL CORRECTIONS

TDE .4590 TRA .9923 TC3 -.0516 BAU 1.3644
 RD-10.5425 RRA 2.8052 RC3 -.1672 FAU-.01728
 FDE 2.0775 FRA -.4932 FC3 .0257 BSP 10231
 BOE10.5525 BRA 2.9755 BC3 .1750 FSP -170

MID-COURSE EXECUTION ACCURACY

SGT 773.8 SGR 3331.9 SG3 53.8
 RRT .5479 RRF -.9976 RTF -.4940
 SGB 3420.6 R23 -.0880 R13 -.9957
 SG1 3359.8 SG2 642.0 THA 82.47

ORBIT DETERMINATION ACCURACY

ST 243.2 SR 2575.5 SS 1305.6
 CRT -.2213 CRS .9997 CST -.2457
 LSA 2887.9 MSA 238.7 SSA 1.4
 EL1 2576.1 EL2 237.1 ALF 91.21

LAUNCH DATE FEB 28 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 389.948

RL 148.20 LAL -.00 LOL 159.23 VL 27.634 GAL -6.69 AZL 61.04 HCA 187.02 SMA 129.18 ECC .18701 INC28.9623 V1 30.065
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.575 GAP 5.85 AZP 118.78 TAL 211.85 TAP 38.87 RCA 105.02 APO 153.33 V2 34.825
 RC 131.823 GL 62.03 GP -76.06 ZAL 103.99 ZAP 102.37 ETS 233.61 ZAE 88.39 ETE 156.52 ZAC 95.56 ETC 132.38 CLP 152.72

PLANETOCENTRIC CONIC

C3 226.441 VHL 15.048 DLA 67.78 RAL 346.99 RAD 6571.3 VEL 18.648 PTH 3.05 VHP 18.507 DPA -73.53 RAP 64.25 ECC 4.7266
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.44 12 48 23 4942.90 -7.88 242.85 253.76 22.45 14 10 46 4342.9 -15.26 240.11
 154.56 23 4 51 3204.58 -7.87 95.55 253.73 22.45 23 58 16 2604.6 -15.25 92.81
 25.44 12 48 23 4942.90 -7.88 242.85 253.76 22.45 14 10 46 4342.9 -15.26 240.11
 154.56 23 4 51 3204.58 -7.87 95.55 253.73 22.45 23 58 16 2604.6 -15.25 92.81
 25.44 12 48 23 4942.90 -7.88 242.85 253.76 22.45 14 10 46 4342.9 -15.26 240.11
 154.56 23 4 51 3204.58 -7.87 95.55 253.73 22.45 23 58 16 2604.6 -15.25 92.81

DIFFERENTIAL CORRECTIONS

TDE 3.5737 TRA-1.5963 TC3 -.0387 BAU .1246
 ROE-2.8003 RRA 2.8116 RC3 -.0141 FAU .00558
 FDE 1.1223 FRA -.6242 FC3 -.0213 BSP 11526
 BOE 4.5401 BRA 3.2331 BC3 .0412 FSP -214

MID-COURSE EXECUTION ACCURACY

SGT 2108.9 SGR 3024.8 SG3 65.9
 RRT -.9397 RRF -.9673 RTF .9941
 SGB 3687.4 R23 -.1391 R13 -.9891
 SG1 3638.3 SG2 599.7 THA 124.29

ORBIT DETERMINATION ACCURACY

ST 1443.6 SR 1363.0 SS 746.8
 CRT -.9454 CRS .9671 CST -.9972
 LSA 2095.0 MSA 332.4 SSA 1.7
 EL1 1958.2 EL2 327.5 ALF 136.74

LAUNCH DATE FEB 28 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 395.592

RL 148.20 LAL -.00 LOL 159.23 VL 27.578 GAL -6.38 AZL 69.91 HCA 189.92 SMA 128.79 ECC .18649 INC20.0899 V1 30.065
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.541 GAP 6.00 AZP 109.81 TAL 210.19 TAP 40.11 RCA 104.77 APO 152.81 V2 34.833
 RC 134.153 GL 59.48 GP -72.24 ZAL 108.57 ZAP 107.72 ETS 275.29 ZAE 97.12 ETE 197.01 ZAC 102.58 ETC 174.02 CLP-176.29

PLANETOCENTRIC CONIC

C3 119.426 VHL 10.928 DLA 63.20 RAL 346.27 RAD 6570.2 VEL 15.517 PTH 2.77 VHP 13.370 DPA -64.12 RAP 55.55 ECC 2.9654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.81 12 57 48 4814.03 -14.25 236.17 248.91 27.73 14 18 2 4214.0 -21.30 232.60
 149.19 22 49 42 3113.31 -14.24 94.88 248.89 27.73 23 41 36 2513.3 -21.29 91.31
 30.81 12 57 48 4814.03 -14.25 236.17 248.91 27.73 14 18 2 4214.0 -21.30 232.60
 149.19 22 49 42 3113.31 -14.24 94.88 248.89 27.73 23 41 36 2513.3 -21.29 91.31
 30.81 12 57 48 4814.03 -14.25 236.17 248.91 27.73 14 18 2 4214.0 -21.30 232.60
 149.19 22 49 42 3113.31 -14.24 94.88 248.89 27.73 23 41 36 2513.3 -21.29 91.31

DIFFERENTIAL CORRECTIONS

TDE 2.9536 TRA-2.8335 TC3 -.3066 BAU .4907
 RDE .1306 RRA .8297 RC3 .0211 FAU .01679
 FDE .9591 FRA -.6581 FC3 -.1217 BSP 11971
 BDE 2.9565 BRA 2.9525 BC3 .3073 FSP -269

MID-COURSE EXECUTION ACCURACY

SGT 3701.4 SGR 968.2 SG3 82.4
 RRT -.8659 RRF -.7756 RTF .9854
 SGB 3825.9 R23 -.1833 R13 -.9806
 SG1 3796.7 SG2 472.2 THA 167.03

ORBIT DETERMINATION ACCURACY

ST 1837.2 SR 297.4 SS 638.6
 CRT -.3295 CRS .1948 CST -.9902
 LSA 1945.5 MSA 294.2 SSA 2.2
 EL1 1839.9 EL2 280.4 ALF 176.87

LAUNCH DATE FEB 28 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 401.356

RL 148.20 LAL -.00 LOL 159.23 VL 27.522 GAL -6.08 AZL 74.74 HCA 192.94 SMA 128.40 ECC .18638 INC15.2590 V1 30.065
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.507 GAP 6.19 AZP 104.89 TAL 208.58 TAP 41.52 RCA 104.47 APO 152.34 V2 34.841
 RC 136.471 GL 55.50 GP -66.02 ZAL 112.42 ZAP 113.09 ETS 289.94 ZAE 103.58 ETE 209.91 ZAC 107.67 ETC 188.02 CLP-184.77

PLANETOCENTRIC CONIC

C3 76.386 VHL 8.740 DLA 59.10 RAL 349.60 RAD 6569.5 VEL 14.062 PTH 2.56 VHP 10.703 DPA -56.38 RAP 50.76 ECC 2.2571
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.69 13 23 9 4695.76 -19.26 228.95 247.54 32.96 14 41 24 4095.8 -25.90 224.54
 144.31 22 50 56 3037.96 -19.24 93.52 247.52 32.96 23 41 34 2438.0 -25.89 89.11
 35.69 13 23 9 4695.76 -19.26 228.95 247.54 32.96 14 41 24 4095.8 -25.90 224.54
 144.31 22 50 56 3037.96 -19.24 93.52 247.52 32.96 23 41 34 2438.0 -25.89 89.11
 35.69 13 23 9 4695.76 -19.26 228.95 247.54 32.96 14 41 24 4095.8 -25.90 224.54
 144.31 22 50 56 3037.96 -19.24 93.52 247.52 32.96 23 41 34 2438.0 -25.89 89.11

DIFFERENTIAL CORRECTIONS

TDE 2.2860 TRA-2.6777 TC3 -.6640 BAU .6813
 RDE .6095 RRA .1213 RC3 -.0647 FAU .02520
 FDE .9559 FRA -.6706 FC3 -.2856 BSP 12336
 BDE 2.3659 BRA 2.6804 BC3 .6671 FSP -334

MID-COURSE EXECUTION ACCURACY

SGT 3908.3 SGR 443.2 SG3 101.3
 RRT .1159 RRF .3354 RTF .9699
 SGB 3933.4 R23 .2230 R13 .9702
 SG1 3908.6 SG2 440.2 THA .76

ORBIT DETERMINATION ACCURACY

ST 1816.2 SR 402.3 SS 626.4
 CRT .7546 CRS -.8753 CST -.9778
 LSA 1942.4 MSA 282.7 SSA 2.9
 EL1 1841.9 EL2 260.3 ALF 9.68

LAUNCH DATE FEB 28 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 407.165

RL 148.20 LAL -.00 LOL 159.23 VL 27.466 GAL -5.79 AZL 77.75 HCA 196.03 SMA 128.02 ECC .18649 INC12.2456 V1 30.065
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.475 GAP 6.39 AZP 101.78 TAL 206.98 TAP 43.00 RCA 104.15 APO 151.90 V2 34.850
 RC 138.775 GL 51.37 GP -59.87 ZAL 115.46 ZAP 118.22 ETS 295.83 ZAE 108.69 ETE 213.56 ZAC 111.80 ETC 192.82 CLP-160.44

PLANETOCENTRIC CONIC

C3 55.040 VHL 7.419 DLA 55.54 RAL 353.68 RAD 6569.0 VEL 13.282 PTH 2.43 VHP 9.161 DPA -49.60 RAP 47.79 ECC 1.9058
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.00 13 50 56 4594.24 -22.74 221.84 246.97 37.85 15 7 30 3994.2 -28.95 216.66
 140.00 22 55 41 2982.30 -22.73 92.00 246.95 37.84 23 45 23 2382.3 -28.94 86.81
 40.00 13 50 56 4594.24 -22.74 221.84 246.97 37.85 15 7 30 3994.2 -28.95 216.66
 140.00 22 55 41 2982.30 -22.73 92.00 246.95 37.84 23 45 23 2382.3 -28.94 86.81
 40.00 13 50 56 4594.24 -22.74 221.84 246.97 37.85 15 7 30 3994.2 -28.95 216.66
 140.00 22 55 41 2982.30 -22.73 92.00 246.95 37.84 23 45 23 2382.3 -28.94 86.81

DIFFERENTIAL CORRECTIONS

TDE 1.9455 TRA-2.4537 TC3-1.0530 BAU .7832
 RDE .6396 RRA -.0682 RC3 -.1551 FAU .03213
 FDE .9718 FRA -.6601 FC3 -.5054 BSP 12604
 BDE 2.0479 BRA 2.4547 BC3 1.0643 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 3989.1 SGR 552.8 SG3 120.2
 RRT .6410 RRF .8151 RTF .9575
 SGB 4027.2 R23 .2533 R13 .9599
 SG1 4005.0 SG2 422.6 THA 5.13

ORBIT DETERMINATION ACCURACY

ST 1808.0 SR 494.8 SS 631.6
 CRT .8613 CRS -.9584 CST -.9705
 LSA 1958.8 MSA 275.1 SSA 3.7
 EL1 1858.5 EL2 244.5 ALF 13.50

LAUNCH DATE FEB 28 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 412.993

RL 148.20 LAL -.00 LOL 159.23 VL 27.410 GAL -5.50 AZL 79.81 HCA 199.14 SMA 127.64 ECC .18678 INC10.1864 V1 30.065
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.442 GAP 6.59 AZP 99.63 TAL 205.37 TAP 44.51 RCA 103.80 APO 151.48 V2 34.860
 RC 141.067 GL 47.49 GP -54.26 ZAL 117.71 ZAP 123.00 ETS 298.92 ZAE 112.81 ETE 214.06 ZAC 115.38 ETC 194.54 CLP-158.81

PLANETOCENTRIC CONIC

C3 42.841 VHL 6.545 DLA 52.48 RAL 357.74 RAD 6568.6 VEL 12.814 PTH 2.33 VHP 8.210 DPA -43.53 RAP 45.97 ECC 1.7051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.78 14 18 4 4507.99 -25.01 215.18 246.76 42.23 15 33 12 3908.0 -30.80 209.34
 136.22 23 0 57 2943.40 -25.00 90.62 246.74 42.23 23 50 1 2343.4 -30.79 84.79
 43.78 14 18 4 4507.99 -25.01 215.18 246.76 42.23 15 33 12 3908.0 -30.80 209.34
 136.22 23 0 57 2943.40 -25.00 90.62 246.74 42.23 23 50 1 2343.4 -30.79 84.79
 43.78 14 18 4 4507.99 -25.01 215.18 246.76 42.23 15 33 12 3908.0 -30.80 209.34
 136.22 23 0 57 2943.40 -25.00 90.62 246.74 42.23 23 50 1 2343.4 -30.79 84.79

DIFFERENTIAL CORRECTIONS

TDE 1.7353 TRA-2.2678 TC3-1.4671 BAU .8505
 RDE .5888 RRA -.1157 RC3 -.2295 FAU .03793
 FDE .9715 FRA -.6295 FC3 -.7664 BSP 12986
 BDE 1.8325 BRA 2.2707 BC3 1.4850 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 4076.5 SGR 619.3 SG3 137.9
 RRT .7532 RRF .9003 RTF .9477
 SGB 4123.3 R23 .2727 R13 .9509
 SG1 4103.3 SG2 404.7 THA 6.59

ORBIT DETERMINATION ACCURACY

ST 1807.4 SR 517.9 SS 633.6
 CRT .8891 CRS -.9774 CST -.9657
 LSA 1965.9 MSA 267.7 SSA 4.7
 EL1 1866.1 EL2 229.7 ALF 14.52

LAUNCH DATE FEB 28 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 418.827

RL 148.20 LAL -.00 LOL 159.23 VL 27.353 GAL -5.20 AZL 81.31 MCA 202.27 SMA 127.27 ECC .18722 INC 8.6855 V1 30.065
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.410 GAP 6.80 AZP 98.05 TAL 203.76 TAP 46.03 RCA 103.44 APO 151.09 V2 34.870
 RC 143.344 GL 43.95 GP -49.25 ZAL 119.25 ZAP 127.36 ETS 300.91 ZAE 116.15 ETE 213.27 ZAC 118.57 ETC 195.00 CLP-158.37

PLANETOCENTRIC CONIC

C3 35.130 VHL 5.927 DLA 49.86 RAL 1.64 RAD 6568.4 VEL 12.510 PTH 2.26 VHP 7.600 DPA -38.10 RAP 44.95 ECC 1.5782
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.08 14 43 55 4434.09 -26.45 209.11 246.86 46.05 15 57 49 3834.1 -31.84 202.75
 132.92 23 6 13 2917.08 -26.43 89.51 246.84 46.05 23 54 50 2317.1 -31.82 83.16
 47.08 14 43 55 4434.09 -26.45 209.11 246.86 46.05 15 57 49 3834.1 -31.84 202.75
 132.92 23 6 13 2917.08 -26.43 89.51 246.84 46.05 23 54 50 2317.1 -31.82 83.16
 47.08 14 43 55 4434.09 -26.45 209.11 246.86 46.05 15 57 49 3834.1 -31.84 202.75
 132.92 23 6 13 2917.08 -26.43 89.51 246.84 46.05 23 54 50 2317.1 -31.82 83.16

DIFFERENTIAL CORRECTIONS

TDE 1.5838 TRA-2.1133 TC3-1.9010 BAU .9029
 RDE .5266 RRA -.1202 RC3 -.2865 FAU .04267
 FDE .9489 FRA -.5844 FC3-1.0514 BSP 13510
 BDE 1.6691 BRA 2.1167 BC3 1.9225 FSP -524

MID-COURSE EXECUTION ACCURACY

SGT 4179.2 SGR 637.9 SG3 153.7
 RRT .7937 RRF .9239 RTF .9405
 SGB 4227.6 R23 .2811 R13 .9437
 SG1 4210.0 SG2 385.2 THA 6.97

ORBIT DETERMINATION ACCURACY

ST 1803.5 SR 512.0 SS 627.1
 CRT .9005 CRS -.9849 CST -.9621
 LSA 1959.7 MSA 259.9 SSA 5.8
 EL1 1862.3 EL2 215.7 ALF 14.54

LAUNCH DATE FEB 28 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 424.665

RL 148.20 LAL -.00 LOL 159.23 VL 27.297 GAL -4.89 AZL 82.46 MCA 205.41 SMA 126.89 ECC .18780 INC 7.5383 V1 30.065
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.379 GAP 7.01 AZP 96.82 TAL 202.13 TAP 47.54 RCA 103.06 APO 150.72 V2 34.880
 RC 145.608 GL 40.75 GP -44.83 ZAL 120.16 ZAP 131.29 ETS 302.37 ZAE 118.85 ETE 211.90 ZAC 121.49 ETC 194.88 CLP-158.51

PLANETOCENTRIC CONIC

C3 29.875 VHL 5.466 DLA 47.64 RAL 5.39 RAD 6568.2 VEL 12.298 PTH 2.22 VHP 7.202 DPA -33.24 RAP 44.52 ECC 1.4917
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.94 15 8 27 4370.03 -27.33 203.66 247.29 49.32 16 21 17 3770.0 -32.36 196.90
 130.06 23 11 35 2899.55 -27.31 88.68 247.28 49.31 23 59 55 2299.6 -32.34 81.92
 49.94 15 8 27 4370.03 -27.33 203.66 247.29 49.32 16 21 17 3770.0 -32.36 196.90
 130.06 23 11 35 2899.55 -27.31 88.68 247.28 49.31 23 59 55 2299.6 -32.34 81.92
 49.94 15 8 27 4370.03 -27.33 203.66 247.29 49.32 16 21 17 3770.0 -32.36 196.90
 130.06 23 11 35 2899.55 -27.31 88.68 247.28 49.31 23 59 55 2299.6 -32.34 81.92

DIFFERENTIAL CORRECTIONS

TDE 1.5074 TRA-1.9370 TC3-2.2958 BAU .9252
 RDE .4828 RRA -.0967 RC3 -.3087 FAU .04480
 FDE .9403 FRA -.4938 FC3-1.2981 BSP 13112
 BDE 1.5828 BRA 1.9394 BC3 2.3165 FSP -518

MID-COURSE EXECUTION ACCURACY

SGT 4228.1 SGR 626.6 SG3 163.4
 RRT .7926 RRF .9227 RTF .9298
 SGB 4274.3 R23 .2948 R13 .9330
 SG1 4257.4 SG2 379.4 THA 6.75

ORBIT DETERMINATION ACCURACY

ST 1822.0 SR 508.2 SS 630.5
 CRT .9085 CRS -.9899 CST -.9583
 LSA 1977.1 MSA 257.5 SSA 6.9
 EL1 1880.3 EL2 205.8 ALF 14.39

LAUNCH DATE FEB 28 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 430.497

RL 148.20 LAL -.00 LOL 159.23 VL 27.242 GAL -4.58 AZL 83.37 MCA 208.57 SMA 126.53 ECC .18851 INC 6.6286 V1 30.065
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.349 GAP 7.22 AZP 95.83 TAL 200.49 TAP 49.05 RCA 102.67 APO 150.38 V2 34.891
 RC 147.857 GL 37.86 GP -40.96 ZAL 120.51 ZAP 134.82 ETS 303.53 ZAE 121.03 ETE 210.29 ZAC 124.21 ETC 194.49 CLP-158.97

PLANETOCENTRIC CONIC

C3 26.088 VHL 5.108 DLA 45.76 RAL 9.03 RAD 6568.1 VEL 12.143 PTH 2.18 VHP 6.943 DPA -28.89 RAP 44.54 ECC 1.4293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.42 15 31 51 4313.82 -27.85 198.81 248.07 52.10 16 43 45 3713.8 -32.56 191.74
 127.58 23 17 14 2888.20 -27.84 88.09 248.06 52.10 24 5 23 2288.2 -32.55 81.02
 52.42 15 31 51 4313.82 -27.85 198.81 248.07 52.10 16 43 45 3713.8 -32.56 191.74
 127.58 23 17 14 2888.20 -27.84 88.09 248.06 52.10 24 5 23 2288.2 -32.55 81.02
 52.42 15 31 51 4313.82 -27.85 198.81 248.07 52.10 16 43 45 3713.8 -32.56 191.74
 127.58 23 17 14 2888.20 -27.84 88.09 248.06 52.10 24 5 23 2288.2 -32.55 81.02

DIFFERENTIAL CORRECTIONS

TDE 1.4202 TRA-1.8036 TC3-2.7361 BAU .9613
 RDE .4366 RRA -.0829 RC3 -.3329 FAU .04714
 FDE .8948 FRA -.4221 FC3-1.5644 BSP 13588
 BDE 1.4857 BRA 1.8055 BC3 2.7562 FSP -561

MID-COURSE EXECUTION ACCURACY

SGT 4331.1 SGR 610.9 SG3 173.3
 RRT .8002 RRF .9186 RTF .9249
 SGB 4374.0 R23 .2889 R13 .9277
 SG1 4358.8 SG2 364.1 THA 6.49

ORBIT DETERMINATION ACCURACY

ST 1817.1 SR 491.5 SS 615.1
 CRT .9136 CRS -.9926 CST -.9555
 LSA 1964.4 MSA 250.2 SSA 8.3
 EL1 1872.3 EL2 194.0 ALF 14.03

LAUNCH DATE FEB 28 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 436.324

RL 148.20 LAL -.00 LOL 159.23 VL 27.186 GAL -4.26 AZL 84.11 MCA 211.73 SMA 126.16 ECC .18937 INC 5.8857 V1 30.065
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.319 GAP 7.44 AZP 95.01 TAL 198.83 TAP 50.56 RCA 102.27 APO 150.05 V2 34.902
 RC 150.092 GL 35.22 GP -37.57 ZAL 120.36 ZAP 137.98 ETS 304.48 ZAE 122.78 ETE 208.61 ZAC 126.80 ETC 193.98 CLP-159.61

PLANETOCENTRIC CONIC

C3 23.234 VHL 4.820 DLA 44.16 RAL 12.62 RAD 6567.9 VEL 12.025 PTH 2.15 VHP 6.778 DPA -24.98 RAP 44.90 ECC 1.3824
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.58 15 54 22 4263.96 -28.16 194.48 249.18 54.47 17 5 26 3664.0 -32.59 187.17
 125.42 23 23 21 2881.11 -28.15 87.69 249.16 54.46 24 11 22 2281.1 -32.58 80.39
 54.58 15 54 22 4263.96 -28.16 194.48 249.18 54.47 17 5 26 3664.0 -32.59 187.17
 125.42 23 23 21 2881.11 -28.15 87.69 249.16 54.46 24 11 22 2281.1 -32.58 80.39
 54.58 15 54 22 4263.96 -28.16 194.48 249.18 54.47 17 5 26 3664.0 -32.59 187.17
 125.42 23 23 21 2881.11 -28.15 87.69 249.16 54.46 24 11 22 2281.1 -32.58 80.39

DIFFERENTIAL CORRECTIONS

TDE 1.3551 TRA-1.6694 TC3-3.1739 BAU .9917
 RDE .4008 RRA -.0678 RC3 -.3450 FAU .04841
 FDE .8467 FRA -.3413 FC3-1.8039 BSP 13964
 BDE 1.4131 BRA 1.6708 BC3 3.1926 FSP -589

MID-COURSE EXECUTION ACCURACY

SGT 4428.0 SGR 591.7 SG3 180.3
 RRT .7998 RRF .9078 RTF .9203
 SGB 4467.3 R23 .2783 R13 .9227
 SG1 4453.4 SG2 353.2 THA 6.14

ORBIT DETERMINATION ACCURACY

ST 1814.2 SR 477.7 SS 598.5
 CRT .9187 CRS -.9949 CST -.9529
 LSA 1954.1 MSA 243.3 SSA 9.7
 EL1 1867.1 EL2 183.3 ALF 13.73

LAUNCH DATE FEB 28 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 442.144

RL 148.20 LAL -0.00 LOL 159.23 VL 27.131 GAL -3.93 AZL 84.74 MCA 214.89 SMA 125.80 ECC .19036 INC 5.2643 V1 30.065
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.290 GAP 7.65 AZP 94.32 TAL 197.17 TAP 52.06 RCA 101.86 APO 149.75 V2 34.914
 RC 152.312 GL 32.81 GP -34.61 ZAL 119.77 ZAP 140.81 ETS 305.26 ZAE 124.20 ETE 206.95 ZAC 129.28 ETC 193.42 CLP-160.35

PLANETOCENTRIC CONIC

C3 21.010 VHL 4.584 DLA 42.79 RAL 16.20 RAD 6567.9 VEL 11.933 PTH 2.12 VHP 6.681 DPA -21.47 RAP 45.55 ECC 1.3458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.47 16 16 12 4219.47 -28.33 190.62 250.61 56.48 17 26 32 3619.5 -32.52 183.13
 123.53 23 30 7 2876.89 -28.31 87.44 250.60 56.46 24 18 4 2276.9 -32.50 79.95
 56.47 16 16 12 4219.47 -28.33 190.62 250.61 56.48 17 26 32 3619.5 -32.52 183.13
 123.53 23 30 7 2876.89 -28.31 87.44 250.60 56.46 24 18 4 2276.9 -32.50 79.95
 56.47 16 16 12 4219.47 -28.33 190.62 250.61 56.48 17 26 32 3619.5 -32.52 183.13
 123.53 23 30 7 2876.89 -28.31 87.44 250.60 56.46 24 18 4 2276.9 -32.50 79.95

DIFFERENTIAL CORRECTIONS

TOE 1.3070 TRA-1.5318 TC3-3.6062 BAU 1.0176
 RDE .3735 RRA -.0530 RC3 -.3482 FAU .04879
 FDE .7986 FRA -.2552 FC3-2.0103 BSP 14253
 BOE 1.3593 BRA 1.5327 BC3 3.6229 FSP -603

MID-COURSE EXECUTION ACCURACY

SGT 4517.3 SGR 572.8 SG3 184.9
 RRT .7938 RRF .8920 RTF .9161
 SGB 4553.4 R23 .2640 R13 .9181
 SG1 4540.2 SG2 346.6 THA 5.78

ORBIT DETERMINATION ACCURACY

ST 1814.3 SR 467.8 SS 582.0
 CRT .9249 CRS -.9968 CST -.9504
 LSA 1947.6 MSA 236.5 SSA 11.2
 EL1 1865.6 EL2 173.0 ALF 13.53

LAUNCH DATE FEB 28 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 447.957

RL 148.20 LAL -0.00 LOL 159.23 VL 27.076 GAL -3.59 AZL 85.27 MCA 218.06 SMA 125.45 ECC .19150 INC 4.7339 V1 30.065
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.261 GAP 7.87 AZP 93.73 TAL 195.49 TAP 53.55 RCA 101.43 APO 149.47 V2 34.926
 RC 154.516 GL 30.56 GP -32.02 ZAL 118.78 ZAP 143.36 ETS 305.89 ZAE 125.34 ETE 205.38 ZAC 131.70 ETC 192.85 CLP-161.15

PLANETOCENTRIC CONIC

C3 19.234 VHL 4.386 DLA 41.62 RAL 19.82 RAD 6567.8 VEL 11.858 PTH 2.10 VHP 6.632 DPA -18.31 RAP 46.42 ECC 1.3165
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.12 16 37 35 4179.51 -28.40 187.17 252.35 58.20 17 47 15 3579.5 -32.38 179.54
 121.88 23 37 38 2874.77 -28.39 87.31 252.34 58.18 24 25 33 2274.8 -32.37 79.68
 58.12 16 37 35 4179.51 -28.40 187.17 252.35 58.20 17 47 15 3579.5 -32.38 179.54
 121.88 23 37 38 2874.77 -28.39 87.31 252.34 58.18 24 25 33 2274.8 -32.37 79.68
 58.12 16 37 35 4179.51 -28.40 187.17 252.35 58.20 17 47 15 3579.5 -32.38 179.54
 121.88 23 37 38 2874.77 -28.39 87.31 252.34 58.18 24 25 33 2274.8 -32.37 79.68

DIFFERENTIAL CORRECTIONS

TOE 1.2675 TRA-1.3932 TC3-4.0395 BAU 1.0426
 RDE .3520 RRA -.0402 RC3 -.3476 FAU .04863
 FDE .7483 FRA -.1702 FC3-2.1889 BSP 14566
 BOE 1.3155 BRA 1.3938 BC3 4.0544 FSP -614

MID-COURSE EXECUTION ACCURACY

SGT 4607.0 SGR 556.2 SG3 187.9
 RRT .7855 RRF .8728 RTF .9127
 SGB 4640.5 R23 .2454 R13 .9145
 SG1 4627.8 SG2 342.7 THA 5.45

ORBIT DETERMINATION ACCURACY

ST 1813.0 SR 460.5 SS 563.5
 CRT .9318 CRS -.9982 CST -.9480
 LSA 1940.1 MSA 228.8 SSA 12.9
 EL1 1863.5 EL2 162.6 ALF 13.42

LAUNCH DATE FEB 28 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 453.762

RL 148.20 LAL -0.00 LOL 159.23 VL 27.022 GAL -3.24 AZL 85.73 MCA 221.24 SMA 125.10 ECC .19280 INC 4.2733 V1 30.065
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.233 GAP 8.10 AZP 93.22 TAL 193.79 TAP 55.03 RCA 100.98 APO 149.22 V2 34.938
 RC 156.704 GL 28.46 GP -29.75 ZAL 117.43 ZAP 145.66 ETS 306.38 ZAE 126.27 ETE 203.92 ZAC 134.06 ETC 192.31 CLP-161.99

PLANETOCENTRIC CONIC

C3 17.791 VHL 4.218 DLA 40.61 RAL 23.52 RAD 6567.7 VEL 11.797 PTH 2.09 VHP 6.620 DPA -15.44 RAP 47.49 ECC 1.2928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.59 16 58 44 4143.39 -28.42 184.07 254.40 59.68 18 7 47 3543.4 -32.21 176.32
 120.41 23 45 56 2874.30 -28.40 87.28 254.39 59.67 24 33 51 2274.3 -32.20 79.54
 59.59 16 58 44 4143.39 -28.42 184.07 254.40 59.68 18 7 47 3543.4 -32.21 176.32
 120.41 23 45 56 2874.30 -28.40 87.28 254.39 59.67 24 33 51 2274.3 -32.20 79.54
 59.59 16 58 44 4143.39 -28.42 184.07 254.40 59.68 18 7 47 3543.4 -32.21 176.32
 120.41 23 45 56 2874.30 -28.40 87.28 254.39 59.67 24 33 51 2274.3 -32.20 79.54

DIFFERENTIAL CORRECTIONS

TOE 1.2361 TRA-1.2499 TC3-4.4666 BAU 1.0655
 RDE .3355 RRA -.0285 RC3 -.3439 FAU .04798
 FDE .6987 FRA -.0859 FC3-2.3350 BSP 14854
 BOE 1.2809 BRA 1.2503 BC3 4.4799 FSP -618

MID-COURSE EXECUTION ACCURACY

SGT 4692.4 SGR 542.7 SG3 189.4
 RRT .7746 RRF .8507 RTF .9100
 SGB 4723.7 R23 .2246 R13 .9115
 SG1 4711.3 SG2 341.8 THA 5.15

ORBIT DETERMINATION ACCURACY

ST 1811.8 SR 456.1 SS 544.6
 CRT .9397 CRS -.9990 CST -.9457
 LSA 1933.4 MSA 220.6 SSA 14.7
 EL1 1862.1 EL2 151.7 ALF 13.40

LAUNCH DATE FEB 28 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 459.557

RL 148.20 LAL -0.00 LOL 159.23 VL 26.967 GAL -2.88 AZL 86.13 MCA 224.41 SMA 124.76 ECC .19426 INC 3.8672 V1 30.065
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.205 GAP 8.32 AZP 92.76 TAL 192.09 TAP 56.51 RCA 100.52 APO 148.99 V2 34.951
 RC 158.875 GL 26.47 GP -27.74 ZAL 115.74 ZAP 147.74 ETS 306.73 ZAE 127.04 ETE 202.57 ZAC 136.40 ETC 191.79 CLP-162.84

PLANETOCENTRIC CONIC

C3 16.606 VHL 4.075 DLA 39.71 RAL 27.30 RAD 6567.7 VEL 11.747 PTH 2.07 VHP 6.637 DPA -12.83 RAP 48.71 ECC 1.2733
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.91 17 19 51 4110.56 -28.38 181.25 256.74 60.97 18 28 21 3510.6 -32.01 173.42
 119.09 23 55 2 2875.29 -28.37 87.34 256.73 60.96 24 42 57 2275.3 -32.00 79.51
 60.91 17 19 51 4110.56 -28.38 181.25 256.74 60.97 18 28 21 3510.6 -32.01 173.42
 119.09 23 55 2 2875.29 -28.37 87.34 256.73 60.96 24 42 57 2275.3 -32.00 79.51
 60.91 17 19 51 4110.56 -28.38 181.25 256.74 60.97 18 28 21 3510.6 -32.01 173.42
 119.09 23 55 2 2875.29 -28.37 87.34 256.73 60.96 24 42 57 2275.3 -32.00 79.51

DIFFERENTIAL CORRECTIONS

TOE 1.2119 TRA-1.0999 TC3-4.8810 BAU 1.0862
 RDE .3232 RRA -.0175 RC3 -.3377 FAU .04691
 FDE .6515 FRA -.0028 FC3-2.4458 BSP 15076
 BOE 1.2543 BRA 1.1000 BC3 4.8927 FSP -615

MID-COURSE EXECUTION ACCURACY

SGT 4771.7 SGR 532.3 SG3 189.5
 RRT .7614 RRF .8265 RTF .9076
 SGB 4801.3 R23 .2035 R13 .9088
 SG1 4789.0 SG2 343.8 THA 4.88

ORBIT DETERMINATION ACCURACY

ST 1811.5 SR 454.6 SS 526.5
 CRT .9485 CRS -.9987 CST -.9435
 LSA 1928.8 MSA 211.9 SSA 16.6
 EL1 1862.4 EL2 140.0 ALF 13.47

LAUNCH DATE FEB 28 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 465.342

RL 148.20 LAL -0.00 LOL 159.23 VL 26.914 GAL -2.50 AZL 86.50 MCA 227.60 SMA 124.42 ECC .19588 INC 3.5045 V1 30.065
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.179 GAP 8.56 AZP 92.36 TAL 190.38 TAP 57.97 RCA 100.05 APO 148.79 V2 34.964
 RC 161.027 GL 24.56 GP -25.98 ZAL 113.75 ZAP 149.63 ETS 306.94 ZAE 127.67 ETE 201.34 ZAC 138.72 ETC 191.29 CLP-163.69

PLANETOCENTRIC CONIC

C3 15.631 VHL 3.954 DLA 38.90 RAL 31.20 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 6.677 DPA -10.45 RAP 50.08 ECC 1.2572
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.13 17 41 11 4080.33 -28.29 178.67 259.38 62.11 18 49 11 3480.3 -31.78 170.77
 117.87 0 8 45 2877.98 -28.28 87.51 259.37 62.10 0 56 43 2278.0 -31.77 79.61
 62.13 17 41 11 4080.33 -28.29 178.67 259.38 62.11 18 49 11 3480.3 -31.78 170.77
 117.87 0 8 45 2877.98 -28.28 87.51 259.37 62.10 0 56 43 2278.0 -31.77 79.61
 62.13 17 41 11 4080.33 -28.29 178.67 259.38 62.11 18 49 11 3480.3 -31.78 170.77
 117.87 0 8 45 2877.98 -28.28 87.51 259.37 62.10 0 56 43 2278.0 -31.77 79.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1868 TRA -.9462 TC3-5.2875 BAU 1.1071 SGT 4852.1 SGR 524.6 SG3 189.0 ST 1803.7 SR 454.0 SS 505.2
 RDE .3132 RRA -.0077 RC3 -.3320 FAU .04568 RRT .7479 RRF .8013 RTF .9062 CRT .9573 CRS -.9970 CST -.9408
 FDE .6022 FRA .0756 FC3-2.5299 BSP 15361 SGB 4880.4 R23 .1809 R13 .9073 LSA 1916.6 MSA 202.3 SSA 18.8
 BOE 1.2275 BRA .9462 BC3 5.2979 FSP -614 SG1 4868.0 SG2 347.1 THA 4.65 EL1 1855.6 EL2 127.5 ALF 13.61

LAUNCH DATE FEB 28 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 471.116

RL 148.20 LAL -0.00 LOL 159.23 VL 26.860 GAL -2.12 AZL 86.82 MCA 230.78 SMA 124.09 ECC .19769 INC 3.1765 V1 30.065
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.152 GAP 8.79 AZP 92.01 TAL 188.66 TAP 59.44 RCA 99.56 APO 148.62 V2 34.977
 RC 163.161 GL 22.72 GP -24.41 ZAL 111.47 ZAP 151.37 ETS 307.01 ZAE 128.20 ETE 200.22 ZAC 141.03 ETC 190.82 CLP-164.55

PLANETOCENTRIC CONIC

C3 14.833 VHL 3.851 DLA 38.15 RAL 35.23 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 6.736 DPA -8.27 RAP 51.57 ECC 1.2441
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.30 18 2 55 4052.22 -28.15 176.26 262.30 63.12 19 10 27 3452.2 -31.51 168.30
 116.70 0 19 7 2882.58 -28.14 87.81 262.29 63.11 1 7 10 2282.6 -31.50 79.86
 63.30 18 2 55 4052.22 -28.15 176.26 262.30 63.12 19 10 27 3452.2 -31.51 168.30
 116.70 0 19 7 2882.58 -28.14 87.81 262.29 63.11 1 7 10 2282.6 -31.50 79.86
 63.30 18 2 55 4052.22 -28.15 176.26 262.30 63.12 19 10 27 3452.2 -31.51 168.30
 116.70 0 19 7 2882.58 -28.14 87.81 262.29 63.11 1 7 10 2282.6 -31.50 79.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1619 TRA -.7857 TC3-5.6743 BAU 1.1271 SGT 4929.6 SGR 519.5 SG3 187.7 ST 1790.0 SR 454.7 SS 482.9
 RDE .3056 RRA .0020 RC3 -.3263 FAU .04427 RRT .7337 RRF .7758 RTF .9055 CRT .9662 CRS -.9934 CST -.9376
 FDE .5533 FRA .1508 FC3-2.5835 BSP 15628 SGB 4956.9 R23 .1589 R13 .9064 LSA 1899.1 MSA 192.3 SSA 21.2
 BOE 1.2015 BRA .7857 BC3 5.6836 FSP -610 SG1 4944.4 SG2 351.9 THA 4.44 EL1 1843.3 EL2 113.9 ALF 13.84

LAUNCH DATE FEB 28 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 476.877

RL 148.20 LAL -0.00 LOL 159.23 VL 26.808 GAL -1.72 AZL 87.12 MCA 233.97 SMA 123.76 ECC .19968 INC 2.8769 V1 30.065
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.127 GAP 9.04 AZP 91.69 TAL 186.93 TAP 60.90 RCA 99.05 APO 148.47 V2 34.990
 RC 165.276 GL 20.92 GP -23.02 ZAL 108.93 ZAP 152.96 ETS 306.94 ZAE 128.65 ETE 199.20 ZAC 143.34 ETC 190.38 CLP-165.40

PLANETOCENTRIC CONIC

C3 14.192 VHL 3.767 DLA 37.42 RAL 39.38 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 6.811 DPA -6.26 RAP 53.16 ECC 1.2336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.44 18 25 17 4025.56 -27.95 173.96 265.49 64.04 19 32 22 3425.6 -31.20 165.97
 115.56 0 29 55 2889.61 -27.94 88.28 265.49 64.02 1 18 5 2289.6 -31.19 80.28
 64.44 18 25 17 4025.56 -27.95 173.96 265.49 64.04 19 32 22 3425.6 -31.20 165.97
 115.56 0 29 55 2889.61 -27.94 88.28 265.49 64.02 1 18 5 2289.6 -31.19 80.28
 64.44 18 25 17 4025.56 -27.95 173.96 265.49 64.04 19 32 22 3425.6 -31.20 165.97
 115.56 0 29 55 2889.61 -27.94 88.28 265.49 64.02 1 18 5 2289.6 -31.19 80.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1352 TRA -.6177 TC3-6.0319 BAU 1.1461 SGT 5003.5 SGR 516.4 SG3 185.8 ST 1768.0 SR 456.2 SS 459.7
 RDE .2999 RRA .0116 RC3 -.3202 FAU .04269 RRT .7189 RRF .7505 RTF .9053 CRT .9747 CRS -.9870 CST -.9335
 FDE .5052 FRA .2229 FC3-2.6045 BSP 15900 SGB 5030.1 R23 .1386 R13 .9061 LSA 1873.9 MSA 182.2 SSA 24.0
 BOE 1.1742 BRA .6178 BC3 6.0404 FSP -604 SG1 5017.3 SG2 358.0 THA 4.27 EL1 1823.2 EL2 98.9 ALF 14.16

LAUNCH DATE FEB 28 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 482.626

RL 148.20 LAL -0.00 LOL 159.23 VL 26.755 GAL -1.31 AZL 87.40 MCA 237.16 SMA 123.44 ECC .20187 INC 2.6004 V1 30.065
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.101 GAP 9.29 AZP 91.41 TAL 185.19 TAP 62.36 RCA 98.52 APO 148.35 V2 35.003
 RC 167.370 GL 19.15 GP -21.78 ZAL 106.14 ZAP 154.42 ETS 306.72 ZAE 129.04 ETE 198.29 ZAC 145.65 ETC 189.95 CLP-166.25

PLANETOCENTRIC CONIC

C3 13.693 VHL 3.700 DLA 36.69 RAL 43.67 RAD 6567.6 VEL 11.622 PTH 2.04 VHP 6.900 DPA -4.40 RAP 54.85 ECC 1.2254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.62 18 48 29 3999.73 -27.67 171.71 268.95 64.88 19 55 8 3399.7 -30.81 163.70
 114.38 0 40 53 2899.73 -27.66 88.95 268.95 64.87 1 29 13 2299.7 -30.80 80.93
 65.62 18 48 29 3999.73 -27.67 171.71 268.95 64.88 19 55 8 3399.7 -30.81 163.70
 114.38 0 40 53 2899.73 -27.66 88.95 268.95 64.87 1 29 13 2299.7 -30.80 80.93
 65.62 18 48 29 3999.73 -27.67 171.71 268.95 64.88 19 55 8 3399.7 -30.81 163.70
 114.38 0 40 53 2899.73 -27.66 88.95 268.95 64.87 1 29 13 2299.7 -30.80 80.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.1068 TRA -.4389 TC3-6.3416 BAU 1.1623 SGT 5067.8 SGR 515.0 SG3 183.1 ST 1738.2 SR 458.4 SS 436.7
 RDE .2959 RRA .0219 RC3 -.3125 FAU .04091 RRT .7030 RRF .7258 RTF .9051 CRT .9826 CRS -.9766 CST -.9282
 FDE .4587 FRA .2938 FC3-2.5864 BSP 16078 SGB 5093.9 R23 .1211 R13 .9058 LSA 1841.7 MSA 172.6 SSA 27.0
 BOE 1.1457 BRA .4395 BC3 6.3493 FSP -592 SG1 5080.8 SG2 365.3 THA 4.11 EL1 1795.8 EL2 82.4 ALF 14.56

LAUNCH DATE FEB 28 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 488.360

RL 148.20 LAL -1.00 LOL 159.23 VL 26.704 GAL -1.89 AZL 87.66 MCA 240.36 SMA 123.12 ECC .20428 INC 2.3429 V1 30.065
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.077 GAP 9.54 AZP 91.16 TAL 183.45 TAP 63.81 RCA 97.97 APO 148.27 V2 35.016
 RC 169.445 GL 17.40 GP -20.67 ZAL 103.13 ZAP 155.78 ETS 306.35 ZAE 129.37 ETE 197.46 ZAC 147.96 ETC 189.53 CLP-167.09

PLANETOCENTRIC CONIC

C3 13.329 VHL 3.651 DLA 35.95 RAL 48.06 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 7.002 DPA -2.68 RAP 56.63 ECC 1.2194
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.87 19 12 46 3973.82 -27.31 169.45 272.67 65.66 20 19 0 3373.8 -30.35 161.41
 113.13 0 51 40 2913.92 -27.30 89.90 272.66 65.65 1 40 14 2313.9 -30.34 81.87
 66.87 19 12 46 3973.82 -27.31 169.45 272.67 65.66 20 19 0 3373.8 -30.35 161.41
 113.13 0 51 40 2913.92 -27.30 89.90 272.66 65.65 1 40 14 2313.9 -30.34 81.87
 66.87 19 12 46 3973.82 -27.31 169.45 272.67 65.66 20 19 0 3373.8 -30.35 161.41
 113.13 0 51 40 2913.92 -27.30 89.90 272.66 65.65 1 40 14 2313.9 -30.34 81.87

DIFFERENTIAL CORRECTIONS

TOE 1.0681 TRA -2.561 TC3-6.6165 BAU 1.1803
 RDE .2926 RRA .0319 RC3 -1.3074 FAU .03928
 FDE .4091 FRA .3584 FC3-2.5510 BSP 16345
 BDE 1.1074 BRA .2581 BC3 6.6237 FSP -586

MID-COURSE EXECUTION ACCURACY

SGT 5137.8 SGR 514.8 SG3 180.5
 RRT .6894 RRF .7028 RTF .9065
 SGB 5163.6 R23 .1029 R13 .9071
 SG1 5150.2 SG2 372.0 THA 3.97

ORBIT DETERMINATION ACCURACY

ST 1689.1 SR 459.6 SS 409.7
 CRT .9892 CRS -.9606 CST -.9206
 LSA 1790.1 MSA 163.6 SSA 30.4
 EL1 1749.2 EL2 65.1 ALF 15.08

LAUNCH DATE FEB 28 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 494.078

RL 148.20 LAL -1.00 LOL 159.23 VL 26.652 GAL -1.45 AZL 87.90 MCA 243.55 SMA 122.81 ECC .20691 INC 2.1011 V1 30.065
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.052 GAP 9.81 AZP 90.94 TAL 181.71 TAP 65.26 RCA 97.40 APO 148.22 V2 35.030
 RC 171.498 GL 15.66 GP -19.67 ZAL 99.93 ZAP 157.04 ETS 305.83 ZAE 129.67 ETE 196.72 ZAC 150.28 ETC 189.11 CLP-167.92

PLANETOCENTRIC CONIC

C3 13.097 VHL 3.619 DLA 35.15 RAL 52.55 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 7.116 DPA -1.09 RAP 58.48 ECC 1.2155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.24 19 38 21 3947.04 -26.85 167.09 276.61 66.41 20 44 8 3347.0 -29.80 159.05
 111.76 1 1 55 2933.09 -26.84 91.19 276.60 66.39 1 50 48 2333.1 -29.79 83.16
 68.24 19 38 21 3947.04 -26.85 167.09 276.61 66.41 20 44 8 3347.0 -29.80 159.05
 111.76 1 1 55 2933.09 -26.84 91.19 276.60 66.39 1 50 48 2333.1 -29.79 83.16
 68.24 19 38 21 3947.04 -26.85 167.09 276.61 66.41 20 44 8 3347.0 -29.80 159.05
 111.76 1 1 55 2933.09 -26.84 91.19 276.60 66.39 1 50 48 2333.1 -29.79 83.16

DIFFERENTIAL CORRECTIONS

TOE 1.0214 TRA -.0638 TC3-6.8293 BAU 1.1970
 RDE .2902 RRA .0426 RC3 -.3010 FAU .03755
 FDE .3596 FRA .4208 FC3-2.4821 BSP 16585
 BDE 1.0619 BRA .0767 BC3 6.8360 FSP -577

MID-COURSE EXECUTION ACCURACY

SGT 5202.3 SGR 515.2 SG3 177.4
 RRT .6753 RRF .6809 RTF .9082
 SGB 5227.8 R23 .0872 R13 .9086
 SG1 5214.0 SG2 379.1 THA 3.85

ORBIT DETERMINATION ACCURACY

ST 1624.3 SR 460.2 SS 382.4
 CRT .9941 CRS -.9364 CST -.9103
 LSA 1723.6 MSA 156.8 SSA 33.9
 EL1 1687.6 EL2 48.1 ALF 15.74

LAUNCH DATE FEB 28 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 499.786

RL 148.20 LAL -1.00 LOL 159.23 VL 26.602 GAL -.01 AZL 88.13 MCA 246.75 SMA 122.50 ECC .20799 INC 1.8722 V1 30.065
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.028 GAP 10.09 AZP 90.74 TAL 179.95 TAP 66.71 RCA 96.80 APO 148.20 V2 35.043
 RC 173.532 GL 13.95 GP -18.78 ZAL 96.55 ZAP 158.21 ETS 305.15 ZAE 129.93 ETE 196.05 ZAC 152.61 ETC 188.69 CLP-168.74

PLANETOCENTRIC CONIC

C3 12.996 VHL 3.605 DLA 34.31 RAL 57.12 RAD 6567.5 VEL 11.592 PTH 2.03 VHP 7.241 DPA -.39 RAP 60.40 ECC 1.2139
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.77 20 5 31 3918.37 -26.28 164.56 280.77 67.11 21 10 49 3318.4 -29.14 156.53
 110.23 1 11 14 2958.41 -26.27 92.91 280.77 67.10 2 0 32 2358.4 -29.14 84.89
 69.77 20 5 31 3918.37 -26.28 164.56 280.77 67.11 21 10 49 3318.4 -29.14 156.53
 110.23 1 11 14 2958.41 -26.27 92.91 280.77 67.10 2 0 32 2358.4 -29.14 84.89
 69.77 20 5 31 3918.37 -26.28 164.56 280.77 67.11 21 10 49 3318.4 -29.14 156.53
 110.23 1 11 14 2958.41 -26.27 92.91 280.77 67.10 2 0 32 2358.4 -29.14 84.89

DIFFERENTIAL CORRECTIONS

TOE 1.0456 TRA .2305 TC3-6.6303 BAU 1.1527
 RDE .3028 RRA .0692 RC3 -.2334 FAU .03120
 FDE .3819 FRA .5586 FC3-2.0785 BSP 14242
 BDE 1.0886 BRA .2407 BC3 6.6344 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 5080.4 SGR 527.0 SG3 167.7
 RRT .6213 RRF .6719 RTF .8769
 SGB 5107.6 R23 .1576 R13 .8777
 SG1 5091.0 SG2 412.0 THA 3.71

ORBIT DETERMINATION ACCURACY

ST 1673.3 SR 483.0 SS 430.9
 CRT .9972 CRS -.9176 CST -.9180
 LSA 1786.0 MSA 166.5 SSA 34.9
 EL1 1741.2 EL2 35.0 ALF 16.06

LAUNCH DATE FEB 28 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 505.460

RL 148.20 LAL -1.00 LOL 159.23 VL 26.551 GAL -.48 AZL 88.35 MCA 249.96 SMA 122.20 ECC .21293 INC 1.6539 V1 30.065
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.005 GAP 10.38 AZP 90.57 TAL 178.21 TAP 68.17 RCA 96.18 APO 148.22 V2 35.056
 RC 175.544 GL 12.26 GP -17.97 ZAL 93.06 ZAP 159.30 ETS 304.30 ZAE 130.16 ETE 195.43 ZAC 154.95 ETC 188.24 CLP-169.55

PLANETOCENTRIC CONIC

C3 13.032 VHL 3.610 DLA 33.38 RAL 61.70 RAD 6567.5 VEL 11.594 PTH 2.03 VHP 7.378 DPA 1.76 RAP 62.39 ECC 1.2145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.54 20 34 33 3885.91 -25.60 161.72 285.07 67.81 21 39 19 3285.9 -28.37 153.71
 108.46 1 18 40 2992.08 -25.58 95.21 285.07 67.79 2 8 32 2392.1 -28.37 87.21
 71.54 20 34 33 3885.91 -25.60 161.72 285.07 67.81 21 39 19 3285.9 -28.37 153.71
 108.46 1 18 40 2992.08 -25.58 95.21 285.07 67.79 2 8 32 2392.1 -28.37 87.21
 110.00 2 24 10 2791.31 -30.16 81.47 286.91 73.09 3 10 41 2191.3 -32.18 72.83
 110.00 0 32 9 3134.67 -21.19 104.06 282.85 62.53 1 24 24 2534.7 -24.69 96.66

DIFFERENTIAL CORRECTIONS

TOE .8994 TRA .3549 TC3-7.0238 BAU 1.2247
 RDE .2879 RRA .0671 RC3 -.2824 FAU .03382
 FDE .2603 FRA .5441 FC3-2.2464 BSP 16960
 BDE .9444 BRA .3611 BC3 7.0294 FSP -553

MID-COURSE EXECUTION ACCURACY

SGT 5311.2 SGR 516.4 SG3 170.0
 RRT .6462 RRF .6412 RTF .9103
 SGB 5336.3 R23 .0651 R13 .9106
 SG1 5321.8 SG2 393.3 THA 3.61

ORBIT DETERMINATION ACCURACY

ST 1449.8 SR 458.6 SS 330.8
 CRT .9942 CRS -.8444 CST -.8772
 LSA 1547.4 MSA 159.7 SSA 39.0
 EL1 1519.9 EL2 47.2 ALF 17.47

LAUNCH DATE FEB 28 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 511.119

RL 148.20 LAL -0.00 LOL 159.23 VL 26.502 GAL .97 AZL 88.56 HCA 253.16 SMA 121.90 ECC .21635 INC 1.4442 V1 30.065
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.982 GAP 10.68 AZP 90.42 TAL 176.46 TAP 69.63 RCA 95.53 APO 148.28 V2 35.069
 RC 177.535 GL 10.59 GP -17.24 ZAL 89.46 ZAP 160.32 ETS 303.28 ZAE 130.37 ETE 194.88 ZAC 157.29 ETC 187.75 CLP-170.36

PLANETOCENTRIC CONIC

C3 13.209 VHL 3.634 CLA 32.38 RAL 66.28 RAD 6567.5 VEL 11.602 PTH 2.03 VHP 7.527 DPA 3.03 RAP 64.43 ECC 1.2174
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.60 21 6 2 3847.97 -24.80 158.45 289.54 68.48 22 10 10 3248.0 -27.49 150.47
 106.40 1 23 43 3035.83 -24.78 98.22 289.53 68.46 2 14 19 2435.8 -27.48 90.25
 73.60 21 6 2 3847.97 -24.80 158.45 289.54 68.48 22 10 10 3248.0 -27.49 150.47
 106.40 1 23 43 3035.83 -24.78 98.22 289.53 68.46 2 14 19 2435.8 -27.48 90.25
 110.00 3 10 6 2707.44 -31.67 75.40 292.00 76.39 3 55 14 2107.4 -33.21 66.51
 110.00 0 22 46 3224.36 -18.28 109.39 286.20 60.60 1 16 30 2624.4 -22.05 102.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8212 TRA .5780 TC3-7.0052 BAU 1.2380 SGT 5363.6 SGR 517.0 SG3 166.2 ST 1343.3 SR 455.8 SS 308.6
 ROE .2877 RRA .0800 RC3 -.2728 FAU .03208 RRT .6340 RRF .6241 RTF .9128 CRT .9843 CRS -.7662 CST -.8552
 FOE .2103 FRA .6006 FC3-2.1025 BSP 17154 SGB 5388.4 R23 .0546 R13 .9131 LSA 1440.7 MSA 174.0 SSA 39.0
 BOE .8702 BRA .5835 BC3 7.0105 FSP -543 SG1 5373.6 SG2 399.1 THA 3.52 EL1 1416.4 EL2 76.4 ALF 18.52

LAUNCH DATE FEB 28 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 516.755

RL 148.20 LAL -0.00 LOL 159.23 VL 26.453 GAL 1.49 AZL 88.76 HCA 256.37 SMA 121.61 ECC .22007 INC 1.2413 V1 30.065
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.959 GAP 11.00 AZP 90.29 TAL 174.72 TAP 71.09 RCA 94.85 APO 148.38 V2 35.083
 RC 179.506 GL 8.96 GP -16.57 ZAL 85.80 ZAP 161.27 ETS 302.07 ZAE 130.56 ETE 194.38 ZAC 159.64 ETC 187.21 CLP-171.16

PLANETOCENTRIC CONIC

C3 13.536 VHL 3.679 CLA 31.31 RAL 70.81 RAD 6567.5 VEL 11.616 PTH 2.04 VHP 7.687 DPA 4.21 RAP 66.53 ECC 1.2228
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.06 21 40 51 3800.91 -23.88 154.48 294.11 69.13 22 44 12 3200.9 -26.50 146.55
 103.94 1 25 4 3093.52 -23.87 102.21 294.10 69.12 2 16 37 2493.5 -26.49 94.28
 76.06 21 40 51 3800.91 -23.88 154.48 294.11 69.13 22 44 12 3200.9 -26.50 146.55
 103.94 1 25 4 3093.52 -23.87 102.21 294.10 69.12 2 16 37 2493.5 -26.49 94.28
 110.00 3 49 57 2642.88 -32.60 70.59 296.92 79.09 4 34 0 2042.9 -33.76 61.55
 110.00 0 19 5 3299.54 -15.71 113.70 289.91 59.24 1 14 4 2699.5 -19.67 106.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .7289 TRA .8105 TC3-6.9032 BAU 1.2501 SGT 5410.4 SGR 516.7 SG3 162.2 ST 1228.1 SR 451.2 SS 290.5
 ROE .2878 RRA .0936 RC3 -.2613 FAU .03033 RRT .6215 RRF .6074 RTF .9154 CRT .9608 CRS -.6570 CST -.8311
 FOE .1592 FRA .6545 FC3-1.9401 BSP 17350 SGB 5435.0 R23 .0451 R13 .9156 LSA 1324.6 MSA 200.1 SSA 37.0
 BOE .7837 BRA .8159 BC3 6.9081 FSP -533 SG1 5420.0 SG2 404.1 THA 3.42 EL1 1303.0 EL2 117.9 ALF 19.61

LAUNCH DATE FEB 28 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 522.363

RL 148.20 LAL -0.00 LOL 159.23 VL 26.404 GAL 2.02 AZL 88.96 HCA 259.58 SMA 121.33 ECC .22412 INC 1.0437 V1 30.065
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.936 GAP 11.33 AZP 90.19 TAL 172.97 TAP 72.56 RCA 94.14 APO 148.52 V2 35.095
 RC 181.455 GL 7.37 GP -15.97 ZAL 82.12 ZAP 162.16 ETS 300.67 ZAE 130.74 ETE 193.92 ZAC 161.99 ETC 186.58 CLP-171.96

PLANETOCENTRIC CONIC

C3 14.025 VHL 3.745 CLA 30.16 RAL 75.25 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 7.860 DPA 5.30 RAP 68.67 ECC 1.2308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.15 22 21 2 3737.64 -22.87 149.32 298.75 69.77 23 23 19 3137.6 -25.41 141.43
 100.85 1 20 21 3172.34 -22.85 107.71 298.75 69.76 2 13 14 2572.3 -25.40 99.82
 79.15 22 21 2 3737.64 -22.87 149.32 298.75 69.77 23 23 19 3137.6 -25.41 141.43
 100.85 1 20 21 3172.34 -22.85 107.71 298.75 69.76 2 13 14 2572.3 -25.40 99.82
 110.00 4 26 34 2588.59 -33.22 66.48 301.76 81.45 5 9 42 1988.6 -34.05 57.34
 110.00 0 17 56 3369.39 -13.24 117.61 293.82 58.19 1 14 5 2769.4 -17.35 110.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .6283 TRA 1.0589 TC3-6.7114 BAU 1.2593 SGT 5450.1 SGR 516.2 SG3 158.1 ST 1123.7 SR 445.8 SS 281.8
 ROE .2889 RRA 1.084 RC3 -.2472 FAU .02853 RRT .6096 RRF .5929 RTF .9174 CRT .9144 CRS -.5225 CST -.8157
 FOE .1105 FRA .7099 FC3-1.7612 BSP 17440 SGB 5474.5 R23 .0385 R13 .9176 LSA 1217.7 MSA 238.5 SSA 34.0
 BOE .6916 BRA 1.0644 BC3 6.7159 FSP -518 SG1 5459.3 SG2 408.5 THA 3.32 EL1 1197.0 EL2 169.4 ALF 20.37

LAUNCH DATE FEB 28 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 527.940

RL 148.20 LAL -0.00 LOL 159.23 VL 26.356 GAL 2.58 AZL 89.15 HCA 262.80 SMA 121.05 ECC .22853 INC .8501 V1 30.065
 RP 107.94 LAP -.84 LOP 62.03 VP 36.914 GAP 11.68 AZP 90.11 TAL 171.24 TAP 74.03 RCA 93.39 APO 148.71 V2 35.108
 RC 183.384 GL 5.85 GP -15.43 ZAL 78.45 ZAP 162.99 ETS 299.07 ZAE 130.90 ETE 193.51 ZAC 164.35 ETC 185.80 CLP-172.75

PLANETOCENTRIC CONIC

C3 14.692 VHL 3.833 CLA 28.96 RAL 79.58 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 8.047 DPA 6.32 RAP 70.86 ECC 1.2418
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.66 23 13 26 3635.21 -21.76 141.31 303.44 70.40 24 14 1 3035.2 -24.23 133.46
 96.34 1 2 26 3295.32 -21.75 116.38 303.44 70.39 1 57 21 2695.3 -24.22 108.54
 100.00 2 33 50 3001.85 -26.52 96.29 305.03 75.67 3 23 51 2401.8 -28.23 87.91
 100.00 0 28 39 3403.92 -17.14 122.40 301.44 65.13 1 25 23 2803.9 -20.35 115.08
 110.00 5 0 48 2541.62 -33.64 62.88 306.54 83.55 5 43 10 1941.6 -34.17 53.68
 110.00 0 18 10 3436.91 -10.79 121.30 297.85 57.37 1 15 27 2836.9 -15.02 114.75

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .5116 TRA 1.3151 TC3-6.4576 BAU 1.2692 SGT 5489.9 SGR 514.4 SG3 153.9 ST 1030.2 SR 438.5 SS 279.9
 ROE .2903 RRA .1235 RC3 -.2327 FAU .02685 RRT .5980 RRF .5786 RTF .9200 CRT .8307 CRS -.3636 CST -.8147
 FOE .0606 FRA .7621 FC3-1.5823 BSP 17629 SGB 5514.0 R23 .0316 R13 .9201 LSA 1117.3 MSA 287.2 SSA 30.7
 BOE .5882 BRA 1.3209 BC3 6.4618 FSP -509 SG1 5498.6 SG2 411.6 THA 3.23 EL1 1095.9 EL2 229.5 ALF 20.41

LAUNCH DATE FEB 28 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 533.482

RL 148.20 LAL -.00 LOL 159.23 VL 26.309 GAL 3.16 AZL 89.34 MCA 266.01 SMA 120.77 ECC .23333 INC .6589 V1 30.065
 RP 107.90 LAP -.66 LOP 65.24 VP 36.892 GAP 12.05 AZP 90.05 TAL 169.51 TAP 75.52 RCA 92.59 APO 148.95 V2 35.120
 RC 185.291 GL 4.39 GP -14.93 ZAL 74.83 ZAP 163.76 ETS 297.25 ZAE 131.05 ETE 193.13 ZAC 166.72 ETC 184.80 CLP-173.54

PLANETOCENTRIC CONIC

C3 15.554 VHL 3.944 CLA 27.72 RAL 83.74 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 8.247 DPA 7.25 RAP 73.09 ECC 1.2560
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 17 43 3311.47 -24.36 118.45 309.40 75.10 2 12 54 2711.5 -26.17 110.25
 90.00 23 31 24 3644.63 -16.87 139.97 306.65 66.92 24 32 8 3044.6 -19.86 132.57
 100.00 3 23 23 2906.34 -27.95 89.56 310.32 78.94 4 11 50 2306.3 -29.19 80.97
 100.00 0 12 20 3525.00 -13.53 129.58 305.04 63.09 1 11 5 2925.0 -17.04 122.54
 110.00 5 32 59 2500.76 -33.91 59.72 311.28 85.40 6 14 40 1900.8 -34.17 50.48
 110.00 0 19 14 3503.34 -8.33 124.87 301.97 56.73 1 17 37 2903.3 -12.65 118.44

DIFFERENTIAL CORRECTIONS

TOE .3852 TRA 1.5846 TC3-6.1383 BAU 1.2772
 RDE .2925 RRA .1393 RC3 -.2165 FAU .02518
 FDE .0124 FRA .8140 FC3-1.4017 BSP 17783
 BOE .4836 BRA 1.5907 BC3 6.1421 FSP -497

MID-COURSE EXECUTION ACCURACY

SGT 5524.3 SGR 511.8 SG3 149.8
 RRT .5868 RRF .5654 RTF .9225
 SGB 5548.0 R23 .0261 R13 .9226
 SG1 5532.5 SG2 413.8 THA 3.13

ORBIT DETERMINATION ACCURACY

ST 971.0 SR 430.4 SS 286.8
 CRT .6987 CRS -.2039 CST -.8381
 LSA 1046.1 MSA 339.5 SSA 27.6
 EL1 1020.9 EL2 292.8 ALF 18.81

LAUNCH DATE FEB 28 1969

FLIGHT TIME 184.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 538.985

RL 148.20 LAL -.00 LOL 159.23 VL 26.262 GAL 3.77 AZL 89.53 MCA 269.23 SMA 120.51 ECC .23855 INC .4690 V1 30.065
 RP 107.87 LAP -.47 LOP 68.46 VP 36.870 GAP 12.44 AZP 90.01 TAL 167.78 TAP 77.01 RCA 91.76 APO 149.25 V2 35.132
 RC 187.175 GL 3.02 GP -14.47 ZAL 71.30 ZAP 164.47 ETS 295.20 ZAE 131.18 ETE 192.78 ZAC 169.08 ETC 183.41 CLP-174.32

PLANETOCENTRIC CONIC

C3 16.634 VHL 4.079 CLA 26.44 RAL 87.73 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 8.463 DPA 8.10 RAP 75.35 ECC 1.2738
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 42 3197.32 -26.13 110.56 314.82 78.67 3 5 59 2597.3 -27.43 102.13
 90.00 23 8 14 3789.33 -12.81 148.66 310.13 64.53 24 11 23 3189.3 -16.14 141.56
 100.00 4 3 50 2839.04 -28.73 84.71 315.33 81.38 4 51 9 2239.0 -29.63 76.02
 100.00 0 3 43 3622.84 -10.45 135.21 308.91 61.84 1 4 6 3022.8 -14.14 128.36
 110.00 6 3 14 2465.44 -34.07 56.97 315.97 87.02 6 44 19 1865.4 -34.11 47.73
 110.00 0 20 48 3569.21 -5.85 128.36 306.13 56.26 1 20 17 2969.2 -10.25 122.03

DIFFERENTIAL CORRECTIONS

TOE .2482 TRA 1.8675 TC3-5.7689 BAU 1.2837
 RDE .2953 RRA .1556 RC3 -.1994 FAU .02356
 FDE -.0348 FRA .8652 FC3-1.2263 BSP 17927
 BOE .3858 BRA 1.8740 BC3 5.7724 FSP -487

MID-COURSE EXECUTION ACCURACY

SGT 5554.4 SGR 508.0 SG3 145.7
 RRT .5759 RRF .5528 RTF .9250
 SGB 5577.6 R23 .0209 R13 .9251
 SG1 5562.1 SG2 414.8 THA 3.03

ORBIT DETERMINATION ACCURACY

ST 956.1 SR 421.3 SS 300.7
 CRT .5206 CRS -.0560 CST -.8778
 LSA 1016.8 MSA 384.0 SSA 24.9
 EL1 984.7 EL2 349.2 ALF 14.83

LAUNCH DATE FEB 28 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 544.442

RL 148.20 LAL -.00 LOL 159.23 VL 26.216 GAL 4.41 AZL 89.72 MCA 272.45 SMA 120.24 ECC .24423 INC .2792 V1 30.065
 RP 107.83 LAP -.28 LOP 71.68 VP 36.849 GAP 12.86 AZP 89.99 TAL 166.07 TAP 78.52 RCA 90.88 APO 149.61 V2 35.147
 RC 189.037 GL 1.72 GP -14.06 ZAL 67.87 ZAP 165.13 ETS 292.90 ZAE 131.31 ETE 192.45 ZAC 171.44 ETC 181.31 CLP-175.11

PLANETOCENTRIC CONIC

C3 17.959 VHL 4.238 CLA 25.16 RAL 91.52 RAD 6567.7 VEL 11.804 PTH 2.09 VHP 8.696 DPA 8.88 RAP 77.65 ECC 1.2956
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 35 3124.37 -27.00 105.39 319.85 81.12 3 46 39 2524.4 -27.95 96.86
 90.00 22 56 36 3897.71 -9.56 154.96 313.97 63.22 24 1 34 3297.7 -13.08 148.04
 100.00 4 39 19 2786.69 -29.21 80.89 320.19 83.34 5 25 46 2186.7 -29.82 72.14
 100.00 23 54 33 3710.62 -7.59 140.16 312.92 61.00 24 56 23 3110.6 -11.40 133.44
 110.00 6 31 36 2435.38 -34.15 54.63 320.61 88.40 7 12 12 1835.4 -33.99 45.39
 110.00 0 22 41 3634.69 -3.37 131.80 310.31 55.96 1 23 16 3034.7 -7.81 125.54

DIFFERENTIAL CORRECTIONS

TOE .1058 TRA 2.1682 TC3-5.3546 BAU 1.2863
 RDE .2993 RRA .1726 RC3 -.1808 FAU .02190
 FDE -.0785 FRA .9179 FC3-1.0556 BSP 17966
 BOE .3174 BRA 2.1751 BC3 5.3576 FSP -472

MID-COURSE EXECUTION ACCURACY

SGT 5577.3 SGR 503.6 SG3 141.7
 RRT .5654 RRF .5417 RTF .9274
 SGB 5600.0 R23 .0175 R13 .9275
 SG1 5584.6 SG2 414.9 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 991.5 SR 412.0 SS 319.8
 CRT .3272 CRS .0627 CST -.9197
 LSA 1043.1 MSA 408.0 SSA 22.6
 EL1 1002.3 EL2 385.1 ALF 9.10

LAUNCH DATE FEB 28 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 549.847

RL 148.20 LAL -.00 LOL 159.23 VL 26.171 GAL 5.08 AZL 89.91 MCA 275.67 SMA 119.98 ECC .25042 INC .0885 V1 30.065
 RP 107.79 LAP -.09 LOP 74.91 VP 36.827 GAP 13.30 AZP 89.99 TAL 164.38 TAP 80.05 RCA 89.94 APO 150.03 V2 35.155
 RC 190.875 GL .52 GP -13.68 ZAL 64.57 ZAP 165.73 ETS 290.36 ZAE 131.41 ETE 192.16 ZAC 173.77 ETC 177.70 CLP-175.90

PLANETOCENTRIC CONIC

C3 19.560 VHL 4.423 CLA 23.88 RAL 95.11 RAD 6567.8 VEL 11.872 PTH 2.11 VHP 8.947 DPA 9.59 RAP 79.97 ECC 1.3219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 30 24 3069.95 -27.51 101.49 324.70 83.01 4 21 34 2470.0 -28.19 92.89
 90.00 22 49 23 3992.28 -6.62 160.34 317.94 62.40 23 55 55 3392.3 -10.26 153.56
 100.00 5 11 14 2744.86 -29.50 77.81 324.94 84.93 5 56 59 2144.9 -29.89 69.03
 100.00 23 51 14 3792.61 -4.86 144.71 316.98 60.47 24 54 27 3192.6 -8.76 138.09
 110.00 6 58 8 2410.42 -34.18 52.68 325.21 89.56 7 38 18 1810.4 -33.86 43.45
 110.00 0 24 45 3699.82 -.88 135.21 314.51 55.83 1 26 25 3099.8 -5.36 128.98

DIFFERENTIAL CORRECTIONS

TOE -.0497 TRA 2.4798 TC3-4.9275 BAU 1.2892
 RDE .3037 RRA .1895 RC3 -.1627 FAU .02036
 FDE -.1226 FRA .9689 FC3 -.9013 BSP 18101
 BOE .3077 BRA 2.4871 BC3 4.9302 FSP -462

MID-COURSE EXECUTION ACCURACY

SGT 5598.7 SGR 497.6 SG3 137.8
 RRT .5547 RRF .5301 RTF .9301
 SGB 5620.8 R23 .0136 R13 .9302
 SG1 5605.6 SG2 413.5 THA 2.84

ORBIT DETERMINATION ACCURACY

ST 1064.1 SR 401.6 SS 341.7
 CRT .1408 CRS .1646 CST -.9512
 LSA 1114.1 MSA 410.7 SSA 20.6
 EL1 1065.8 EL2 397.0 ALF 3.53

LAUNCH DATE FEB 28 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 555.192

RL 148.20 LAL -.00 LOL 159.23 VL 26.126 GAL 5.79 AZL 90.10 MCA 278.90 SMA 119.73 ECC .25718 INC .1033 V1 30.065
 RP 107.76 LAP .10 LOP 78.13 VP 36.806 GAP 13.78 AZP 90.02 TAL 162.70 TAP 81.60 RCA 88.94 APO 150.52 V2 35.166
 RC 192.690 GL -.58 GP -13.33 ZAL 61.41 ZAP 166.27 ETS 287.55 ZAE 131.51 ETE 191.88 ZAC 176.06 ETC 169.92 CLP-176.69

PLANETOCENTRIC CONIC

C3 21.477 VHL 4.634 DLA 22.63 RAL 98.48 RAD 6567.9 VEL 11.952 PTH 2.13 VHP 9.218 DPA 10.23 RAP 82.31 ECC 1.3535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 2 8 3027.77 -27.82 98.45 329.43 84.51 4 52 35 2427.8 -28.29 89.81
 90.00 22 44 33 4079.15 -3.85 165.23 321.98 61.92 23 52 32 3479.2 -7.58 158.53
 100.00 5 40 14 2711.47 -29.67 75.35 329.60 86.22 6 25 25 2111.5 -29.88 66.55
 100.00 23 49 8 3870.69 -2.23 149.01 321.08 60.18 24 53 39 3270.7 -6.18 142.45
 110.00 7 22 51 2390.39 -34.18 51.11 329.76 90.48 8 2 42 1790.4 -33.74 41.90
 110.00 0 26 55 3764.54 1.60 138.58 318.70 55.85 1 29 40 3164.5 -2.90 132.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2128 TRA 2.8082 TC3-4.4892 BAU 1.2896 SGT 5615.3 SGR 490.5 SG3 134.1 ST 1165.4 SR 391.0 SS 365.2
 RDE .3090 RRA .2067 RC3 -.1446 FAU .01886 RRT .5440 RRF .5190 RTF .9330 CRT -.0139 CRS .2442 CST -.9714
 FDE -.1650 FRA 1.0206 FC3 -.7604 BSP 18217 SGB 5636.6 R23 .0103 R13 .9330 LSA 1218.6 MSA 399.0 SSA 19.0
 BDE .3752 BRA 2.8158 BC3 4.4916 FSP -451 SG1 5621.6 SG2 411.1 THA 2.74 EL1 1165.4 EL2 391.0 ALF 179.70

LAUNCH DATE FEB 28 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 560.467

RL 148.20 LAL -.00 LOL 159.23 VL 26.082 GAL 6.54 AZL 90.30 MCA 282.12 SMA 119.48 ECC .26456 INC .3003 V1 30.065
 RP 107.73 LAP .29 LOP 81.36 VP 36.785 GAP 14.29 AZP 90.06 TAL 161.05 TAP 83.17 RCA 87.87 APO 151.09 V2 35.177
 RC 194.480 GL -1.60 GP -13.01 ZAL 58.42 ZAP 166.75 ETS 284.47 ZAE 131.59 ETE 191.62 ZAC 178.09 ETC 143.94 CLP-177.49

PLANETOCENTRIC CONIC

C3 23.755 VHL 4.874 DLA 21.41 RAL 101.64 RAD 6568.0 VEL 12.047 PTH 2.15 VHP 9.513 DPA 10.80 RAP 84.67 ECC 1.3910
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 30 39 2995.00 -28.01 96.07 334.07 85.69 5 20 34 2395.0 -28.32 87.42
 90.00 22 41 12 4160.91 -1.22 169.80 326.06 61.71 23 50 33 3560.9 -5.00 163.15
 100.00 6 6 42 2683.30 -29.78 73.41 334.19 87.23 6 51 27 2085.3 -29.84 64.60
 100.00 23 47 51 3945.84 .32 153.14 325.20 60.11 24 53 37 3345.8 -3.66 146.61
 110.00 7 45 50 2375.14 -34.17 49.92 334.26 91.19 8 25 26 1775.1 -33.62 40.72
 110.00 0 29 8 3828.76 4.05 141.94 322.88 56.03 1 32 57 3228.8 -.44 135.73

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3830 TRA 3.1547 TC3-4.0506 BAU 1.2871 SGT 5626.8 SGR 482.2 SG3 130.4 ST 1282.5 SR 380.3 SS 389.0
 RDE .3153 RRA .2237 RC3 -.1268 FAU .01739 RRT .5331 RRF .5082 RTF .9360 CRT -.1336 CRS .3055 CST -.9833
 FDE -.2054 FRA 1.0734 FC3 -.6339 BSP 18310 SGB 5647.4 R23 .0077 R13 .9360 LSA 1339.8 MSA 381.4 SSA 17.6
 BDE .4961 BRA 3.1626 BC3 4.0526 FSP -441 SG1 5632.7 SG2 407.5 THA 2.63 EL1 1283.6 EL2 376.5 ALF 177.52

LAUNCH DATE FEB 28 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 565.660

RL 148.20 LAL -.00 LOL 159.23 VL 26.038 GAL 7.33 AZL 90.50 MCA 285.35 SMA 119.24 ECC .27263 INC .5017 V1 30.065
 RP 107.70 LAP .48 LOP 84.58 VP 36.763 GAP 14.84 AZP 90.13 TAL 159.42 TAP 84.77 RCA 86.73 APO 151.75 V2 35.187
 RC 196.245 GL -2.52 GP -12.72 ZAL 55.59 ZAP 167.17 ETS 281.11 ZAE 131.65 ETE 191.38 ZAC 178.26 ETC 63.16 CLP-178.30

PLANETOCENTRIC CONIC

C3 26.453 VHL 5.143 DLA 20.23 RAL 104.58 RAD 6568.1 VEL 12.158 PTH 2.18 VHP 9.832 DPA 11.30 RAP 87.05 ECC 1.4353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 30 2970.03 -28.13 94.25 338.62 86.59 5 46 0 2370.0 -28.30 85.59
 90.00 22 38 53 4238.87 1.29 174.15 330.15 61.71 23 49 32 3638.9 -2.50 167.52
 100.00 6 30 56 2665.53 -29.83 71.94 338.72 88.00 7 15 21 2065.5 -29.79 63.14
 100.00 23 47 8 4018.60 2.78 157.13 329.32 60.23 24 54 7 3418.6 -1.20 150.61
 110.00 8 7 9 2364.50 -34.15 49.09 338.73 91.68 8 46 33 1764.5 -33.54 39.90
 110.00 0 31 20 3892.40 6.46 145.29 327.04 56.36 1 36 13 3292.4 1.99 139.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.5575 TRA 3.5239 TC3-3.6171 BAU 1.2797 SGT 5633.2 SGR 472.9 SG3 126.9 ST 1404.8 SR 369.7 SS 412.1
 RDE .3228 RRA .2408 RC3 -.1094 FAU .01591 RRT .5223 RRF .4981 RTF .9391 CRT -.2220 CRS .3509 CST -.9900
 FDE -.2433 FRA 1.1288 FC3 -.5207 BSP 18306 SGB 5653.1 R23 .0060 R13 .9391 LSA 1465.7 MSA 362.8 SSA 16.5
 BDE .6442 BRA 3.5321 BC3 3.6187 FSP -427 SG1 5638.7 SG2 402.9 THA 2.52 EL1 1407.4 EL2 359.8 ALF 176.42

LAUNCH DATE FEB 28 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 570.758

RL 148.20 LAL -.00 LOL 159.23 VL 25.996 GAL 8.18 AZL 90.71 MCA 288.58 SMA 119.00 ECC .28147 INC .7095 V1 30.065
 RP 107.67 LAP .67 LOP 87.81 VP 36.742 GAP 15.43 AZP 90.23 TAL 157.82 TAP 86.40 RCA 85.51 APO 152.50 V2 35.196
 RC 197.986 GL -3.36 GP -12.45 ZAL 52.94 ZAP 167.52 ETS 277.49 ZAE 131.69 ETE 191.15 ZAC 176.31 ETC 32.48 CLP-179.11

PLANETOCENTRIC CONIC

C3 29.637 VHL 5.444 DLA 19.11 RAL 107.33 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 10.180 DPA 11.73 RAP 89.43 ECC 1.4878
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 20 0 2951.78 -28.19 92.92 343.11 87.25 6 9 12 2351.8 -28.28 84.25
 90.00 22 37 15 4313.79 3.70 178.33 334.24 61.91 23 49 9 3713.8 -.08 171.70
 100.00 6 53 7 2651.51 -29.86 70.90 343.18 88.55 7 37 18 2051.5 -29.74 62.10
 100.00 23 46 49 4089.29 5.17 161.03 333.43 60.52 24 54 59 3489.3 1.20 154.49
 110.00 8 26 51 2358.24 -34.13 48.60 343.15 91.97 9 6 9 1758.2 -33.48 39.42
 110.00 0 33 30 3955.33 8.82 148.63 331.20 56.84 1 39 26 3355.3 4.39 142.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.7433 TRA 3.9102 TC3-3.2061 BAU 1.2709 SGT 5636.1 SGR 462.1 SG3 123.5 ST 1526.5 SR 358.7 SS 434.9
 RDE .3309 RRA .2570 RC3 -.0933 FAU .01452 RRT .5103 RRF .4870 RTF .9425 CRT -.2920 CRS .3894 CST -.9939
 FDE -.2813 FRA 1.1845 FC3 -.4243 BSP 18378 SGB 5655.0 R23 .0042 R13 .9425 LSA 1590.3 MSA 344.2 SSA 15.5
 BDE .8136 BRA 3.9186 BC3 3.2074 FSP -417 SG1 5641.1 SG2 397.1 THA 2.41 EL1 1530.2 EL2 342.2 ALF 175.87

LAUNCH DATE FEB 28 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 575.742

RL 148.20 LAL -.00 LOL 159.23 VL 25.954 GAL 9.08 AZL 90.93 MCA 291.81 SMA 118.77 ECC .29119 INC .9255 V1 30.065
 RP 107.64 LAP .86 LOP 91.05 VP 36.721 GAP 16.08 AZP 90.34 TAL 156.26 TAP 88.07 RCA 84.18 APO 153.35 V2 35.205
 RC 199.701 GL -4.11 GP -12.21 ZAL 50.45 ZAP 167.79 ETS 273.60 ZAE 131.71 ETE 190.93 ZAC 174.07 ETC 23.88 CLP-179.95

PLANETOCENTRIC CONIC

C3 33.394 VHL 5.779 DLA 18.04 RAL 109.87 RAD 6568.3 VEL 12.440 PTH 2.25 VHP 10.561 OPA 12.11 RAP 91.81 ECC 1.5496
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 24 2939.48 -28.23 92.02 347.52 87.70 6 30 23 2339.5 -28.25 83.36
 90.00 22 36 8 4386.10 6.01 182.40 338.32 62.28 23 49 15 3786.1 2.25 175.73
 100.00 7 13 25 2642.72 -29.87 70.25 347.58 88.89 7 57 28 2042.7 -29.71 61.45
 100.00 23 46 48 4158.09 7.46 164.85 337.54 60.97 24 56 6 3558.1 3.53 158.27
 110.00 8 45 2 2356.12 -34.13 48.44 347.54 92.06 9 24 18 1756.1 -33.47 39.26
 110.00 0 35 37 4017.46 11.11 151.98 335.33 57.46 1 42 35 3417.5 6.74 145.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9373 TRA 4.3192 TC3-2.8165 BAU 1.2579 SGT 5634.3 SGR 450.1 SG3 120.2 ST 1642.8 SR 347.7 SS 457.0
 RDE .3400 RRA .2725 RC3 -.0784 FAU .01317 RRT .4974 RRF .4753 RTF .9461 CRT -.3463 CRS .4205 CST -.9962
 FDE -.3183 FRA 1.2424 FC3 -.3415 BSP 18452 SGB 5652.2 R23 .0028 R13 .9462 LSA 1709.3 MSA 326.6 SSA 14.6
 BDE .9971 BRA 4.3278 BC3 2.8176 FSP -407 SG1 5638.7 SG2 390.1 THA 2.29 EL1 1647.4 EL2 325.3 ALF 175.64

LAUNCH DATE FEB 28 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 580.593

RL 148.20 LAL -.00 LOL 159.23 VL 25.913 GAL 10.05 AZL 91.15 MCA 295.04 SMA 118.54 ECC .30188 INC 1.1516 V1 30.065
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.700 GAP 16.78 AZP 90.49 TAL 154.74 TAP 89.78 RCA 82.76 APO 154.33 V2 35.213
 RC 201.391 GL -4.78 GP -11.98 ZAL 48.14 ZAP 167.99 ETS 269.46 ZAE 131.71 ETE 190.71 ZAC 171.78 ETC 20.05 CLP 179.20

PLANETOCENTRIC CONIC

C3 37.826 VHL 6.150 DLA 17.03 RAL 112.22 RAD 6568.5 VEL 12.617 PTH 2.29 VHP 10.977 OPA 12.42 RAP 94.19 ECC 1.6225
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 54 2932.46 -28.25 91.51 351.87 87.96 6 49 46 2332.5 -28.23 82.84
 90.00 22 35 24 4456.06 8.21 186.36 342.40 62.80 23 49 40 3856.1 4.50 179.65
 100.00 7 32 0 2638.68 -29.88 69.95 351.92 89.05 8 15 59 2038.7 -29.69 61.15
 100.00 23 46 59 4225.08 9.65 168.61 341.63 61.57 24 57 24 3625.1 5.78 161.97
 110.00 9 1 45 2357.86 -34.13 48.57 351.87 91.98 9 41 3 1757.9 -33.48 39.39
 110.00 0 37 39 4078.66 13.33 155.33 339.45 58.23 1 45 38 3478.7 9.03 148.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1368 TRA 4.7544 TC3-2.4414 BAU 1.2350 SGT 5621.3 SGR 436.9 SG3 117.0 ST 1749.6 SR 336.8 SS 478.3
 RDE .3501 RRA .2869 RC3 -.0646 FAU .01183 RRT .4839 RRF .4630 RTF .9504 CRT -.3880 CRS .4458 CST -.9975
 FDE -.3544 FRA 1.3035 FC3 -.2708 BSP 18506 SGB 5638.3 R23 .0011 R13 .9504 LSA 1818.4 MSA 310.3 SSA 13.7
 BDE 1.1895 BRA 4.7631 BC3 2.4423 FSP -397 SG1 5625.3 SG2 382.0 THA 2.16 EL1 1754.6 EL2 309.5 ALF 175.59

LAUNCH DATE FEB 28 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 585.284

RL 148.20 LAL -.00 LOL 159.23 VL 25.872 GAL 11.09 AZL 91.39 MCA 298.28 SMA 118.32 ECC .31367 INC 1.3901 V1 30.065
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.679 GAP 17.55 AZP 90.66 TAL 153.27 TAP 91.55 RCA 81.21 APO 155.44 V2 35.221
 RC 203.056 GL -5.39 GP -11.77 ZAL 46.00 ZAP 168.11 ETS 265.11 ZAE 131.68 ETE 190.51 ZAC 169.50 ETC 17.91 CLP 178.33

PLANETOCENTRIC CONIC

C3 43.062 VHL 6.562 DLA 16.09 RAL 114.39 RAD 6568.6 VEL 12.823 PTH 2.33 VHP 11.436 OPA 12.67 RAP 96.56 ECC 1.7087
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 40 2930.17 -28.25 91.34 356.15 88.04 7 7 30 2330.2 -28.23 82.68
 90.00 22 34 56 4523.81 10.29 190.25 346.45 63.47 23 50 20 3923.8 6.65 183.47
 100.00 7 48 58 2638.93 -29.88 69.96 356.19 89.04 8 32 57 2038.9 -29.69 61.16
 100.00 23 47 18 4290.29 11.74 172.33 345.70 62.31 24 58 49 3690.3 7.94 165.60
 110.00 9 17 6 2363.17 -34.14 48.99 356.16 91.74 9 56 30 1763.2 -33.53 39.80
 110.00 0 39 36 4138.81 15.46 158.69 343.55 59.13 1 48 34 3538.8 11.25 152.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3471 TRA 5.2215 TC3-2.1086 BAU 1.2143 SGT 5617.4 SGR 422.6 SG3 113.9 ST 1848.4 SR 326.0 SS 498.7
 RDE .3615 RRA .3000 RC3 -.0519 FAU .01046 RRT .4680 RRF .4500 RTF .9538 CRT -.4225 CRS .4659 CST -.9985
 FDE -.3890 FRA 1.3690 FC3 -.2103 BSP 18438 SGB 5633.3 R23 .0018 R13 .9538 LSA 1919.4 MSA 295.2 SSA 13.0
 BDE 1.3947 BRA 5.2301 BC3 2.1092 FSP -385 SG1 5620.9 SG2 373.2 THA 2.03 EL1 1853.6 EL2 294.7 ALF 175.63

LAUNCH DATE FEB 28 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 589.783

RL 148.20 LAL -.00 LOL 159.23 VL 25.833 GAL 12.21 AZL 91.64 MCA 301.51 SMA 118.11 ECC .32672 INC 1.6435 V1 30.065
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.658 GAP 18.39 AZP 90.86 TAL 151.87 TAP 93.38 RCA 79.52 APO 156.70 V2 35.228
 RC 204.697 GL -5.92 GP -11.58 ZAL 44.02 ZAP 168.14 ETS 260.58 ZAE 131.61 ETE 190.31 ZAC 167.23 ETC 16.54 CLP 177.43

PLANETOCENTRIC CONIC

C3 49.263 VHL 7.019 DLA 15.21 RAL 116.38 RAD 6568.8 VEL 13.062 PTH 2.38 VHP 11.943 OPA 12.87 RAP 98.91 ECC 1.8107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 48 2932.10 -28.25 91.48 .34 87.97 7 23 41 2332.1 -28.23 82.82
 90.00 22 34 40 4589.40 12.26 194.06 350.47 64.27 23 51 9 3989.4 8.70 187.19
 100.00 8 4 26 2643.05 -29.87 70.27 .39 88.88 8 48 29 2043.0 -29.71 61.47
 100.00 23 47 43 4353.68 13.71 176.00 349.73 63.18 25 0 17 3753.7 10.01 169.17
 110.00 9 31 9 2371.73 -34.16 49.66 .38 91.34 10 10 41 1771.7 -33.60 40.46
 110.00 0 41 26 4197.77 17.49 162.06 347.62 60.15 1 51 23 3597.8 13.39 155.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.5692 TRA 5.7161 TC3-1.7976 BAU 1.1842 SGT 5602.9 SGR 406.9 SG3 111.0 ST 1936.8 SR 315.2 SS 519.5
 RDE .3738 RRA .3110 RC3 -.0408 FAU .00915 RRT .4500 RRF .4343 RTF .9579 CRT -.4525 CRS .4854 CST -.9990
 FDE -.4249 FRA 1.4375 FC3 -.1607 BSP 18469 SGB 5617.6 R23 .0016 R13 .9579 LSA 2010.3 MSA 280.6 SSA 12.4
 BDE 1.6131 BRA 5.7245 BC3 1.7981 FSP -375 SG1 5605.9 SG2 363.2 THA 1.88 EL1 1942.1 EL2 280.3 ALF 175.70

LAUNCH DATE FEB 28 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 594.048

RL 148.20 LAL -.00 LOL 159.23 VL 25.795 GAL 13.43 AZL 91.92 MCA 304.74 SMA 117.90 ECC .34120 INC 1.9154 V1 30.065
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.637 GAP 19.33 AZP 91.09 TAL 150.53 TAP 95.28 RCA 77.67 APO 158.13 V2 35.235
 RC 206.313 GL -6.40 GP -11.40 ZAL 42.21 ZAP 168.08 ETS 255.90 ZAE 131.51 ETE 190.10 ZAC 164.99 ETC 15.60 CLP 176.49

PLANETOCENTRIC CONIC

C3 56.633 VHL 7.525 DLA 14.40 RAL 118.20 RAD 6569.0 VEL 13.341 PTH 2.44 VHP 12.505 OPA 13.01 RAP 101.23 ECC 1.9320
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 26 2937.78 -28.24 91.90 4.45 87.77 7 38 24 2337.8 -28.25 83.23
 90.00 22 34 32 4652.79 14.10 197.81 354.45 65.19 23 52 5 4052.8 10.64 190.84
 100.00 8 18 29 2650.64 -29.86 70.84 4.51 88.58 9 2 39 2050.6 -29.74 62.03
 100.00 23 48 11 4415.17 15.57 179.62 353.73 64.16 25 1 46 3815.2 11.97 172.68
 110.00 9 43 56 2383.22 -34.17 50.55 4.53 90.81 10 23 40 1783.2 -33.68 41.35
 110.00 0 43 8 4255.36 19.41 165.42 351.65 61.29 1 54 4 3655.4 15.42 158.57

DIFFERENTIAL CORRECTIONS

TDE -1.8028 TRA 6.2461 TC3 -1.5134 BAU 1.1460
 RDE .3873 RRA .3195 RC3 -.0311 FAU .00782
 FDE -.4610 FRA 1.5111 FC3 -.1195 BSP 18485
 BDE 1.8439 BRA 6.2542 BC3 1.5137 FSP -366

MID-COURSE EXECUTION ACCURACY

SGT 5583.7 SGR 390.1 SG3 108.1
 RRT .4292 RRF .4162 RTF .9621
 SGB 5597.3 R23 .0018 R13 .9621
 SG1 5586.2 SG2 352.2 THA 1.72

ORBIT DETERMINATION ACCURACY

ST 2014.5 SR 304.4 SS 540.4
 CRT -.4790 CRS .5035 CST -.9993
 LSA 2090.8 MSA 266.6 SSA 11.7
 EL1 2019.8 EL2 266.5 ALF 175.79

LAUNCH DATE FEB 28 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 598.029

RL 148.20 LAL -.00 LOL 159.23 VL 25.758 GAL 14.76 AZL 92.21 MCA 307.98 SMA 117.70 ECC .35732 INC 2.2095 V1 30.065
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.617 GAP 20.37 AZP 91.36 TAL 149.29 TAP 97.27 RCA 75.64 APO 159.76 V2 35.240
 RC 207.904 GL -6.82 GP -11.24 ZAL 40.57 ZAP 167.91 ETS 251.14 ZAE 131.36 ETE 189.90 ZAC 162.78 ETC 14.93 CLP 175.51

PLANETOCENTRIC CONIC

C3 65.429 VHL 8.089 DLA 13.66 RAL 119.84 RAD 6569.2 VEL 13.667 PTH 2.50 VHP 13.131 OPA 13.11 RAP 103.52 ECC 2.0768
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 38 2946.79 -28.21 92.55 8.45 87.44 7 51 45 2346.8 -28.27 83.89
 90.00 22 34 30 4713.90 15.81 201.48 358.36 66.20 23 53 4 4113.9 12.46 194.40
 100.00 8 31 9 2661.30 -29.84 71.63 8.52 88.17 9 15 31 2061.3 -29.78 62.82
 100.00 23 48 40 4474.61 17.30 183.18 357.66 65.24 25 3 14 3874.6 13.82 176.12
 110.00 9 55 31 2397.33 -34.18 51.66 8.60 90.16 10 35 29 1797.3 -33.78 42.43
 110.00 0 44 43 4311.36 21.20 168.78 355.64 62.54 1 56 34 3711.4 17.36 161.76

DIFFERENTIAL CORRECTIONS

TDE -2.0488 TRA 6.8167 TC3 -1.2546 BAU 1.0976
 RDE .4023 RRA .3249 RC3 -.0228 FAU .00644
 FDE -.4977 FRA 1.5909 FC3 -.0853 BSP 18482
 BDE 2.0879 BRA 6.8244 BC3 1.2548 FSP -357

MID-COURSE EXECUTION ACCURACY

SGT 5560.2 SGR 372.4 SG3 105.4
 RRT .4048 RRF .3947 RTF .9662
 SGB 5572.7 R23 .0023 R13 .9662
 SG1 5562.3 SG2 340.4 THA 1.56

ORBIT DETERMINATION ACCURACY

ST 2081.3 SR 293.7 SS 561.9
 CRT -.5032 CRS .5207 CST -.9996
 LSA 2161.0 MSA 253.2 SSA 11.1
 EL1 2086.7 EL2 253.2 ALF 175.88

LAUNCH DATE FEB 28 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 601.659

RL 148.20 LAL -.00 LOL 159.23 VL 25.722 GAL 16.21 AZL 92.53 MCA 311.22 SMA 117.51 ECC .37532 INC 2.5308 V1 30.065
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.597 GAP 21.52 AZP 91.67 TAL 148.14 TAP 99.36 RCA 73.41 APO 161.61 V2 35.246
 RC 209.470 GL -7.19 GP -11.08 ZAL 39.09 ZAP 167.63 ETS 246.35 ZAE 131.15 ETE 189.69 ZAC 160.62 ETC 14.42 CLP 174.48

PLANETOCENTRIC CONIC

C3 75.983 VHL 8.717 DLA 12.98 RAL 121.33 RAD 6569.5 VEL 14.048 PTH 2.56 VHP 13.832 OPA 13.15 RAP 105.75 ECC 2.2505
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 14 27 2958.72 -28.17 93.42 12.33 87.00 8 3 45 2358.7 -28.29 84.76
 90.00 22 34 31 4772.55 17.39 205.06 2.19 67.30 23 54 3 4172.6 14.17 197.87
 100.00 8 42 31 2674.67 -29.81 72.62 12.42 87.65 9 27 6 2074.7 -29.82 63.82
 100.00 23 49 7 4531.83 18.90 186.68 1.51 66.40 25 4 39 3931.8 15.55 179.49
 110.00 10 5 55 2413.71 -34.18 52.94 12.55 89.40 10 46 9 1813.7 -33.88 43.70
 110.00 0 46 9 4365.55 22.87 172.10 359.55 63.87 1 58 54 3765.6 19.17 164.92

DIFFERENTIAL CORRECTIONS

TDE -2.3053 TRA 7.4370 TC3 -1.0187 BAU 1.0349
 RDE .4191 RRA .3266 RC3 -.0156 FAU .00495
 FDE -.5346 FRA 1.6790 FC3 -.0564 BSP 18364
 BDE 2.3431 BRA 7.4442 BC3 1.0188 FSP -346

MID-COURSE EXECUTION ACCURACY

SGT 5533.1 SGR 353.8 SG3 102.8
 RRT .3762 RRF .3692 RTF .9704
 SGB 5544.4 R23 .0031 R13 .9704
 SG1 5534.7 SG2 327.7 THA 1.38

ORBIT DETERMINATION ACCURACY

ST 2136.3 SR 283.3 SS 584.2
 CRT -.5253 CRS .5369 CST -.9997
 LSA 2219.8 MSA 240.5 SSA 10.5
 EL1 2141.5 EL2 240.5 ALF 175.97

LAUNCH DATE FEB 28 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 604.852

RL 148.20 LAL -.00 LOL 159.23 VL 25.688 GAL 17.82 AZL 92.89 MCA 314.45 SMA 117.33 ECC .39551 INC 2.8857 V1 30.065
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.577 GAP 22.82 AZP 92.02 TAL 147.12 TAP 101.57 RCA 70.92 APO 163.73 V2 35.250
 RC 211.012 GL -7.51 GP -10.94 ZAL 37.78 ZAP 167.24 ETS 241.56 ZAE 130.88 ETE 189.48 ZAC 158.51 ETC 14.04 CLP 173.39

PLANETOCENTRIC CONIC

C3 88.726 VHL 9.419 DLA 12.37 RAL 122.64 RAD 6569.7 VEL 14.494 PTH 2.63 VHP 14.620 OPA 13.16 RAP 107.93 ECC 2.4602
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 54 2973.19 -28.11 94.48 16.07 86.48 8 14 27 2373.2 -28.31 85.82
 90.00 22 34 32 4828.53 18.83 208.54 5.91 68.45 23 55 1 4228.5 15.74 201.23
 100.00 8 52 35 2690.40 -29.76 73.79 16.17 87.03 9 37 25 2090.4 -29.85 64.98
 100.00 23 49 32 4586.56 20.35 190.10 5.26 67.62 25 5 59 3986.6 17.14 182.77
 110.00 10 15 8 2432.07 -34.16 54.37 16.37 88.55 10 55 40 1832.1 -33.98 45.13
 110.00 0 47 24 4417.66 24.39 175.38 3.36 65.27 2 1 2 3817.7 20.85 168.02

DIFFERENTIAL CORRECTIONS

TDE -2.5836 TRA 8.1038 TC3 -.8095 BAU .9602
 RDE .4375 RRA .3234 RC3 -.0099 FAU .00341
 FDE -.5746 FRA 1.7744 FC3 -.0333 BSP 18358
 BDE 2.6204 BRA 8.1102 BC3 .8095 FSP -338

MID-COURSE EXECUTION ACCURACY

SGT 5501.1 SGR 334.3 SG3 100.3
 RRT .3407 RRF .3368 RTF .9744
 SGB 5511.2 R23 .0040 R13 .9744
 SG1 5502.2 SG2 314.2 THA 1.19

ORBIT DETERMINATION ACCURACY

ST 2182.6 SR 272.9 SS 608.5
 CRT -.5486 CRS .5552 CST -.9998
 LSA 2270.8 MSA 227.6 SSA 9.9
 EL1 2187.8 EL2 227.6 ALF 176.03

LAUNCH DATE FEB 28 1969

FLIGHT TIME 214.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 607.498

RL 148.20 LAL -.00 LOL 159.23 VL 25.655 GAL 19.61 AZL 93.28 HCA 317.69 SMA 117.15 ECC .41822 INC 3.2824 V1 30.065
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.557 GAP 24.29 AZP 92.43 TAL 146.26 TAP 103.94 RCA 68.16 APO 166.15 V2 35.254
 RC 212.528 GL -7.79 GP -10.80 ZAL 36.64 ZAP 166.72 ETS 236.83 ZAE 130.54 ETE 189.25 ZAC 156.48 ETC 13.74 CLP 172.23

PLANETOCENTRIC CONIC

C3 104.221 VHL 10.209 DLA 11.83 RAL 123.78 RAD 6570.0 VEL 15.019 PTH 2.70 VHP 15.513 DPA 13.13 RAP 110.04 ECC 2.7152
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 33 59 2989.88 -28.04 95.69 19.63 85.87 8 23 49 2389.9 -28.32 87.04
 90.00 22 34 32 4881.56 20.12 211.89 9.49 69.64 23 55 54 4281.6 17.17 204.46
 100.00 9 1 20 2708.15 -29.69 75.10 19.76 86.34 9 46 28 2108.2 -29.88 66.30
 100.00 23 49 52 4638.51 21.67 193.40 8.86 68.89 25 7 11 4038.5 18.60 185.94
 110.00 10 23 10 2452.09 -34.11 55.93 20.03 87.63 11 4 2 1852.1 -34.06 46.69
 110.00 0 48 28 4467.34 25.77 178.58 7.04 66.72 2 2 55 3867.3 22.39 171.05

DIFFERENTIAL CORRECTIONS

TOE-2.8800 TRA 8.8298 TC3 -.6221 BAU .8669
 RDE .4584 RRA .3141 RC3 -.0054 FAU .00170
 FDE -.6168 FRA 1.8802 FC3 -.0141 BSP 18329
 BDE 2.9162 BRA 8.8354 BC3 .6221 FSP -330

MID-COURSE EXECUTION ACCURACY

SGT 5464.6 SGR 314.2 SG3 97.9
 RRT .2971 RRF .2963 RTF .9782
 SGB 5473.6 R23 .0050 R13 .9782
 SG1 5465.4 SG2 300.0 THA .98

ORBIT DETERMINATION ACCURACY

ST 2218.4 SR 262.9 SS 635.0
 CRT -.5723 CRS .5748 CST -.9999
 LSA 2312.4 MSA 215.1 SSA 9.4
 EL1 2223.5 EL2 215.1 ALF 176.08

LAUNCH DATE FEB 28 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 609.451

RL 148.20 LAL -.00 LOL 159.23 VL 25.625 GAL 21.60 AZL 93.73 HCA 320.92 SMA 116.99 ECC .44387 INC 3.7317 V1 30.065
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.539 GAP 25.96 AZP 92.90 TAL 145.57 TAP 106.49 RCA 65.06 APO 168.92 V2 35.256
 RC 214.018 GL -8.03 GP -10.67 ZAL 35.69 ZAP 166.05 ETS 232.20 ZAE 130.10 ETE 189.00 ZAC 154.53 ETC 13.52 CLP 170.97

PLANETOCENTRIC CONIC

C3 123.216 VHL 11.100 DLA 11.37 RAL 124.74 RAD 6570.3 VEL 15.638 PTH 2.78 VHP 16.529 DPA 13.07 RAP 112.05 ECC 3.0278
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 41 3008.49 -27.94 97.05 22.99 85.20 8 31 49 2408.5 -28.31 88.40
 90.00 22 34 29 4931.26 21.26 215.09 12.88 70.85 23 56 41 4331.3 18.46 207.54
 100.00 9 8 45 2727.66 -29.60 76.54 23.14 85.59 9 54 13 2127.7 -29.89 67.75
 100.00 23 50 6 4687.32 22.83 196.56 12.28 70.16 25 8 13 4087.3 19.92 188.97
 110.00 10 29 58 2473.52 -34.04 57.60 23.58 86.65 11 11 12 1873.5 -34.13 48.36
 110.00 0 49 18 4514.23 26.99 181.68 10.54 68.18 2 4 32 3914.2 23.79 173.98

DIFFERENTIAL CORRECTIONS

TOE-3.1965 TRA 9.6237 TC3 -.4552 BAU .7499
 RDE .4821 RRA .2974 RC3 -.0021 FAU-.00025
 FDE -.6619 FRA 1.9985 FC3 .0018 BSP 18267
 BDE 3.2327 BRA 9.6283 BC3 .4552 FSP -323

MID-COURSE EXECUTION ACCURACY

SGT 5423.7 SGR 294.1 SG3 95.6
 RRT .2429 RRF .2451 RTF .9818
 SGB 5431.6 R23 .0061 R13 .9818
 SG1 5424.2 SG2 285.2 THA .76

ORBIT DETERMINATION ACCURACY

ST 2243.6 SR 253.2 SS 664.3
 CRT -.5970 CRS .5959 CST -.9999
 LSA 2344.8 MSA 202.8 SSA 8.8
 EL1 2248.7 EL2 202.7 ALF 176.11

LAUNCH DATE FEB 28 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 610.520

RL 148.20 LAL -.00 LOL 159.23 VL 25.597 GAL 23.84 AZL 94.25 HCA 324.15 SMA 116.84 ECC .47294 INC 4.2482 V1 30.065
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.521 GAP 27.88 AZP 93.45 TAL 145.11 TAP 109.26 RCA 61.58 APO 172.10 V2 35.259
 RC 215.482 GL -8.23 GP -10.55 ZAL 34.93 ZAP 165.23 ETS 227.69 ZAE 129.54 ETE 188.73 ZAC 152.70 ETC 13.37 CLP 169.60

PLANETOCENTRIC CONIC

C3 146.709 VHL 12.112 DLA 10.98 RAL 125.50 RAD 6570.6 VEL 16.372 PTH 2.86 VHP 17.694 DPA 13.00 RAP 113.95 ECC 3.4145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 47 55 3028.79 -27.82 98.52 26.11 84.47 8 38 23 2428.8 -28.29 89.89
 90.00 22 34 21 4977.21 22.26 218.09 16.04 72.03 23 57 18 4377.2 19.60 210.43
 100.00 9 14 45 2748.69 -29.47 78.10 26.29 84.78 10 0 34 2148.7 -29.89 69.32
 100.00 23 50 11 4732.54 23.84 199.53 15.47 71.41 25 9 4 4132.5 21.08 191.82
 110.00 10 35 29 2496.11 -33.93 59.36 26.73 85.61 11 17 5 1896.1 -34.17 50.12
 110.00 0 49 53 4557.89 28.06 184.62 13.81 69.63 2 5 51 3957.9 25.03 176.76

DIFFERENTIAL CORRECTIONS

TOE-3.5322 TRA10.4979 TC3 -.3064 BAU .6010
 RDE .5095 RRA .2713 RC3 .0002 FAU-.00258
 FDE -.7099 FRA 2.1323 FC3 .0152 BSP 18091
 BDE 3.5687 BRA10.5014 BC3 .3064 FSP -313

MID-COURSE EXECUTION ACCURACY

SGT 5378.8 SGR 274.2 SG3 93.4
 RRT .1752 RRF .1801 RTF .9851
 SGB 5385.8 R23 .0072 R13 .9851
 SG1 5379.0 SG2 269.9 THA .51

ORBIT DETERMINATION ACCURACY

ST 2257.3 SR 244.2 SS 696.8
 CRT -.6226 CRS .6185 CST -.9999
 LSA 2367.3 MSA 190.8 SSA 8.2
 EL1 2262.4 EL2 190.6 ALF 176.12

LAUNCH DATE FEB 28 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

DISTANCE 610.447

RL 148.20 LAL -.00 LOL 159.23 VL 25.571 GAL 26.39 AZL 94.85 HCA 327.38 SMA 116.71 ECC .50597 INC 4.8524 V1 30.065
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.505 GAP 30.09 AZP 94.09 TAL 144.93 TAP 112.31 RCA 57.66 APO 175.76 V2 35.260
 RC 216.920 GL -8.40 GP -10.42 ZAL 34.38 ZAP 164.23 ETS 223.32 ZAE 128.84 ETE 188.44 ZAC 150.99 ETC 13.26 CLP 168.10

PLANETOCENTRIC CONIC

C3 176.047 VHL 13.268 DLA 10.68 RAL 126.05 RAD 6570.9 VEL 17.244 PTH 2.94 VHP 19.035 DPA 12.92 RAP 115.71 ECC 3.8973
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 52 33 3050.62 -27.66 100.10 28.94 83.69 8 43 24 2450.6 -28.25 91.48
 90.00 22 34 4 5018.90 23.11 220.85 18.90 73.16 23 57 43 4418.9 20.58 213.09
 100.00 9 19 14 2771.09 -29.32 79.74 29.15 83.93 10 5 25 2171.1 -29.86 70.98
 100.00 23 50 5 4773.67 24.71 202.28 18.37 72.61 25 9 39 4173.7 22.09 194.46
 110.00 10 39 34 2519.70 -33.80 61.19 29.68 84.54 11 21 33 1919.7 -34.18 51.96
 110.00 0 50 10 4597.82 28.98 187.37 16.79 71.02 2 6 48 3997.8 26.11 179.36

DIFFERENTIAL CORRECTIONS

TOE-3.8978 TRA11.4519 TC3 -.1772 BAU .4171
 RDE .5413 RRA .2332 RC3 .0013 FAU-.00534
 FDE -.7635 FRA 2.2821 FC3 .0262 BSP 18022
 BDE 3.9352 BRA11.4543 BC3 .1772 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 5327.2 SGR 255.3 SG3 91.4
 RRT .0887 RRF .0961 RTF .9881
 SGB 5333.4 R23 .0083 R13 .9881
 SG1 5327.3 SG2 254.2 THA .24

ORBIT DETERMINATION ACCURACY

ST 2261.1 SR 235.8 SS 734.1
 CRT -.6510 CRS .6445 CST -.9999
 LSA 2382.2 MSA 178.8 SSA 7.6
 EL1 2266.3 EL2 178.6 ALF 176.09

LAUNCH DATE MAR 1 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 10 1969

HELIOCENTRIC CONIC

DISTANCE 195.936

RL 148.24 LAL -0.00 LOL 160.24 VL 28.197 GAL -11.27 AZL 89.55 HCA 88.57 SMA 133.31 ECC .22410 INC .4491 V1 30.058
 RP 108.55 LAP .45 LOP 248.80 VP 38.075 GAP -7.33 AZP 89.99 TAL 229.39 TAP 317.96 RCA 103.44 APO 163.18 V2 34.911
 RC 60.976 GL 1.94 GP 21.03 ZAL 157.87 ZAP 35.13 ETS 329.77 ZAE 148.21 ETE 31.82 ZAC 123.16 ETC 148.44 CLP -28.81

PLANETOCENTRIC CONIC

C3 40.980 VHL 6.402 DLA 2.69 RAL 1.33 RAD 6568.6 VEL 12.742 PTH 2.32 VHP 6.198 DPA 32.36 RAP 29.54 ECC 1.6744
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 32 53 2475.93 -24.93 58.74 235.95 103.88 1 14 9 1875.9 -22.78 50.73
 90.00 13 10 50 4953.07 21.74 216.51 234.08 71.40 14 33 24 4353.1 19.00 208.91
 100.00 1 55 29 2209.51 -26.22 38.78 235.58 104.90 2 32 18 1609.5 -23.92 30.74
 100.00 14 30 56 4694.72 23.00 197.04 233.61 70.36 15 49 10 4094.7 20.11 189.43
 110.00 3 6 36 1986.90 -29.69 20.73 234.43 107.78 3 39 43 1386.9 -26.97 12.60
 110.00 15 36 18 4490.09 26.37 180.08 232.18 67.42 16 51 8 3890.1 23.08 172.47

DIFFERENTIAL CORRECTIONS

TDE -.1562 TRA -.3242 TC3 .3064 BAU .2115
 RDE -.3274 RRA .3185 RC3 .2349 FAU .06245
 FDE -.5274 FRA -.7214 FC3-1.3193 BSP 1440
 BDE .3627 BRA .4545 BC3 .3860 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 507.7 SGR 507.7 SG3 161.5
 RRT .2949 RRF -.5839 RTF -.4308
 SGB 718.0 R23 -.1289 R13 -.6305
 SG1 577.7 SG2 426.3 THA 45.00

ORBIT DETERMINATION ACCURACY

ST 165.1 SR 305.4 SS 274.6
 CRT .6662 CRS -.7742 CST -.9716
 LSA 413.0 MSA 157.2 SSA 26.2
 EL1 327.7 EL2 114.8 ALF 67.24

LAUNCH DATE MAR 1 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 202.642

RL 148.24 LAL -0.00 LOL 160.24 VL 28.282 GAL -11.16 AZL 89.74 HCA 91.74 SMA 133.95 ECC .22007 INC .2615 V1 30.058
 RP 108.58 LAP .26 LOP 251.98 VP 38.128 GAP -6.55 AZP 90.01 TAL 230.46 TAP 322.20 RCA 104.47 APO 163.43 V2 34.900
 RC 63.000 GL 1.15 GP 22.42 ZAL 158.59 ZAP 38.85 ETS 332.08 ZAE 148.36 ETE 35.87 ZAC 121.91 ETC 148.14 CLP -32.60

PLANETOCENTRIC CONIC

C3 40.127 VHL 6.335 DLA 1.69 RAL 1.03 RAD 6568.5 VEL 12.708 PTH 2.31 VHP 5.850 DPA 33.39 RAP 28.24 ECC 1.6604
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 5 2439.68 -24.32 56.26 234.88 104.97 1 19 45 1839.7 -22.03 48.34
 90.00 13 2 14 4978.69 22.29 218.19 233.71 72.07 14 25 12 4378.7 19.63 210.52
 100.00 2 1 13 2174.76 -25.59 36.39 234.49 106.00 2 37 28 1574.8 -23.15 28.44
 100.00 14 22 47 4718.84 23.54 198.63 233.25 71.03 15 41 26 4118.8 20.73 190.96
 110.00 3 11 16 1955.49 -29.01 18.53 233.28 108.92 3 43 51 1355.5 -26.16 10.52
 110.00 15 29 13 4510.88 26.91 181.46 231.87 68.07 16 44 24 3910.9 23.69 173.77

DIFFERENTIAL CORRECTIONS

TDE -.1513 TRA -.3310 TC3 .2982 BAU .2167
 RDE -.3052 RRA .3360 RC3 .2726 FAU .06862
 FDE -.6264 FRA -.8093 FC3-1.4805 BSP 1508
 BDE .3407 BRA .4717 BC3 .4040 FSP -499

MID-COURSE EXECUTION ACCURACY

SGT 501.2 SGR 536.6 SG3 180.7
 RRT .2870 RRF -.6361 RTF -.3927
 SGB 734.2 R23 -.1310 R13 -.6600
 SG1 590.6 SG2 436.1 THA 51.69

ORBIT DETERMINATION ACCURACY

ST 164.1 SR 290.9 SS 308.5
 CRT .6222 CRS -.7648 CST -.9650
 LSA 423.6 MSA 163.1 SSA 26.2
 EL1 311.8 EL2 119.9 ALF 67.08

LAUNCH DATE MAR 1 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 209.313

RL 148.24 LAL -0.00 LOL 160.24 VL 28.352 GAL -11.07 AZL 89.93 HCA 94.92 SMA 134.50 ECC .21660 INC .0723 V1 30.058
 RP 108.62 LAP .07 LOP 255.16 VP 38.170 GAP -5.82 AZP 90.01 TAL 231.36 TAP 326.28 RCA 105.37 APO 163.63 V2 34.889
 RC 65.076 GL .33 GP 23.90 ZAL 159.18 ZAP 42.77 ETS 334.27 ZAE 148.55 ETE 40.48 ZAC 120.44 ETC 147.98 CLP -36.60

PLANETOCENTRIC CONIC

C3 39.377 VHL 6.275 DLA .72 RAL .84 RAD 6568.5 VEL 12.679 PTH 2.30 VHP 5.539 DPA 34.41 RAP 26.66 ECC 1.6480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 45 33 2404.69 -23.68 53.90 233.99 106.00 1 25 38 1804.7 -21.26 46.06
 90.00 12 54 15 5004.15 22.81 219.87 233.49 72.76 14 17 39 4404.1 20.24 212.14
 100.00 2 7 14 2141.23 -24.94 34.11 233.58 107.04 2 42 55 1541.2 -22.37 26.26
 100.00 14 15 15 4742.84 24.06 200.22 233.06 71.71 15 34 18 4142.8 21.34 192.48
 110.00 3 16 15 1925.21 -28.33 16.45 232.31 109.99 3 48 20 1325.2 -25.34 8.54
 110.00 15 22 44 4531.62 27.42 182.84 231.71 68.75 16 38 15 3931.6 24.29 175.08

DIFFERENTIAL CORRECTIONS

TDE -.1508 TRA -.3447 TC3 .2808 BAU .2216
 RDE -.2804 RRA .3540 RC3 .3137 FAU .07501
 FDE -.7334 FRA -.8961 FC3-1.6491 BSP 1557
 BDE .3184 BRA .4941 BC3 .4210 FSP -563

MID-COURSE EXECUTION ACCURACY

SGT 492.2 SGR 570.1 SG3 200.8
 RRT .2575 RRF -.6851 RTF -.3317
 SGB 753.2 R23 -.1219 R13 -.6931
 SG1 605.7 SG2 447.6 THA 59.91

ORBIT DETERMINATION ACCURACY

ST 167.3 SR 274.1 SS 342.6
 CRT .5721 CRS -.7489 CST -.9579
 LSA 437.7 MSA 168.0 SSA 26.2
 EL1 294.6 EL2 127.7 ALF 65.96

LAUNCH DATE MAR 1 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 215.950

RL 148.24 LAL -0.00 LOL 160.24 VL 28.410 GAL -10.98 AZL 90.12 HCA 98.09 SMA 134.95 ECC .21359 INC .1149 V1 30.058
 RP 108.65 LAP -.11 LOP 258.33 VP 38.203 GAP -5.12 AZP 89.98 TAL 232.11 TAP 330.20 RCA 106.12 APO 163.77 V2 34.878
 RC 67.198 GL -.52 GP 25.46 ZAL 159.63 ZAP 46.90 ETS 336.42 ZAE 148.70 ETE 45.66 ZAC 118.77 ETC 147.99 CLP -40.82

PLANETOCENTRIC CONIC

C3 38.707 VHL 6.222 DLA -.24 RAL .75 RAD 6568.5 VEL 12.652 PTH 2.30 VHP 5.263 DPA 35.41 RAP 24.79 ECC 1.6370
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 52 19 2370.70 -23.03 51.82 233.27 106.95 1 31 50 1770.7 -20.49 43.87
 90.00 12 46 50 5029.47 23.31 221.56 233.43 73.46 14 10 39 4429.5 20.83 213.77
 100.00 2 13 33 2108.67 -24.27 31.92 232.84 108.01 2 48 42 1508.7 -21.58 24.16
 100.00 14 8 17 4766.73 24.56 201.82 233.01 72.41 15 27 44 4166.7 21.93 194.01
 110.00 3 21 33 1895.84 -27.63 14.45 231.52 110.98 3 53 9 1295.8 -24.52 6.65
 110.00 15 16 47 4552.32 27.93 184.24 231.71 69.44 16 32 39 3952.3 24.87 176.40

DIFFERENTIAL CORRECTIONS

TDE -.1541 TRA -.3641 TC3 .2548 BAU .2276
 RDE -.2524 RRA .3726 RC3 .3586 FAU .08155
 FDE -.8495 FRA -.9812 FC3-1.8240 BSP 1624
 BDE .2957 BRA .5210 BC3 .4399 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 482.8 SGR 608.9 SG3 221.6
 RRT .2019 RRF -.7304 RTF -.2466
 SGB 777.1 R23 -.0942 R13 -.7313
 SG1 626.8 SG2 459.4 THA 69.62

ORBIT DETERMINATION ACCURACY

ST 174.2 SR 254.5 SS 377.8
 CRT .5130 CRS -.7236 CST -.9510
 LSA 455.8 MSA 171.4 SSA 26.1
 EL1 275.9 EL2 138.0 ALF 63.57

LAUNCH DATE MAR 1 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC
 RL 148.24 LAL -.00 LOL 160.24 VL 28.456 GAL -10.89 AZL 90.31 HCA 101.27 SMA 135.31 ECC .21096 INC .3081 V1 30.058
 RP 108.68 LAP -.30 LOP 261.50 VP 38.228 GAP -4.45 AZP 89.94 TAL 232.70 TAP 333.97 RCA 106.76 APO 163.85 V2 34.867
 RC 69.360 GL -1.40 GP 27.09 ZAL 159.95 ZAP 51.20 ETS 338.57 ZAE 148.76 ETE 51.43 ZAC 116.90 ETC 148.17 CLP -45.27

PLANETOCENTRIC CONIC
 C3 38.102 VHL 6.173 DLA -1.18 RAL .78 RAD 6568.5 VEL 12.628 PTH 2.29 VHP 5.023 DPA 36.36 RAP 22.64 ECC 1.6271
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 25 2337.44 -22.35 49.42 232.70 107.86 1 38 23 1737.4 -19.70 41.75
 90.00 12 39 56 5054.75 23.79 223.26 233.50 74.18 14 4 11 4454.8 21.40 215.40
 100.00 2 20 13 2076.83 -23.59 29.81 232.26 108.92 2 54 50 1476.8 -20.79 22.13
 100.00 14 1 49 4790.60 25.05 203.43 233.10 73.13 15 21 40 4190.6 22.50 195.56
 110.00 3 27 12 1867.15 -26.91 12.52 230.89 111.92 3 58 19 1267.2 -23.70 4.83
 110.00 15 11 20 4573.04 28.42 185.66 231.85 70.15 16 27 33 3973.0 25.45 177.74

MID-COURSE EXECUTION ACCURACY
 SGT 476.0 SGR 653.5 SG3 243.0
 RRT .1160 RRF -.7713 RTF -.1354
 SGB 808.4 R23 -.0493 R13 -.7711
 SG1 658.3 SG2 469.3 THA 80.10

ORBIT DETERMINATION ACCURACY
 ST 184.6 SR 232.4 SS 414.5
 CRT .4396 CRS -.6838 CST -.9447
 LSA 478.7 MSA 173.3 SSA 26.0
 EL1 255.7 EL2 150.7 ALF 58.94

DIFFERENTIAL CORRECTIONS
 TDE -.1608 TRA -.3888 TC3 .2203 BAU .2359
 RDE -.2205 RRA .3917 RC3 .4074 FAU .08817
 FDE -.9749 FRA -1.0633 FC3 -2.0034 BSP 1737
 BDE .2729 BRA .5519 BC3 .4631 FSP -703

LAUNCH DATE MAR 1 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC
 RL 148.24 LAL -.00 LOL 160.24 VL 28.492 GAL -10.80 AZL 90.50 HCA 104.43 SMA 135.59 ECC .20865 INC .5048 V1 30.058
 RP 108.72 LAP -.49 LOP 264.67 VP 38.245 GAP -3.82 AZP 89.87 TAL 233.14 TAP 337.58 RCA 107.30 APO 163.88 V2 34.858
 RC 71.560 GL -2.31 GP 28.78 ZAL 160.12 ZAP 55.66 ETS 340.80 ZAE 148.63 ETE 57.72 ZAC 114.86 ETC 148.54 CLP -49.94

PLANETOCENTRIC CONIC
 C3 37.546 VHL 6.127 DLA -2.12 RAL .91 RAD 6568.5 VEL 12.606 PTH 2.29 VHP 4.819 DPA 37.26 RAP 20.21 ECC 1.6179
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 6 54 2304.65 -21.65 47.27 232.29 108.71 1 45 18 1704.7 -18.89 39.68
 90.00 12 33 29 5080.11 24.25 224.97 233.71 74.92 13 58 9 4480.1 21.95 217.06
 100.00 2 27 15 2045.44 -22.88 27.74 231.83 109.78 3 1 20 1445.4 -19.97 20.15
 100.00 13 55 49 4814.56 25.51 205.06 233.32 73.86 15 16 4 4214.6 23.05 197.12
 110.00 3 33 14 1838.90 -26.18 10.65 230.41 112.81 4 3 53 1238.9 -22.86 3.07
 110.00 15 6 20 4593.86 28.89 187.10 232.11 70.88 16 22 53 3993.9 26.01 179.10

MID-COURSE EXECUTION ACCURACY
 SGT 476.8 SGR 701.8 SG3 263.5
 RRT -.0079 RRF -.8062 RTF .0108
 SGB 848.5 R23 .0010 R13 -.8062
 SG1 701.8 SG2 476.8 THA 90.57

ORBIT DETERMINATION ACCURACY
 ST 201.3 SR 208.9 SS 450.3
 CRT .3518 CRS -.6244 CST -.9410
 LSA 506.2 MSA 173.4 SSA 25.8
 EL1 238.7 EL2 164.9 ALF 48.02

DIFFERENTIAL CORRECTIONS
 TDE -.1741 TRA -.4211 TC3 .1743 BAU .2462
 RDE -.1857 RRA .4094 RC3 .4584 FAU .09439
 FDE -1.1024 FRA -1.1329 FC3 -2.1764 BSP 1864
 BDE .2546 BRA .5873 BC3 .4905 FSP -772

LAUNCH DATE MAR 1 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC
 RL 148.24 LAL -.00 LOL 160.24 VL 28.517 GAL -10.72 AZL 90.71 HCA 107.60 SMA 135.79 ECC .20660 INC .7071 V1 30.058
 RP 108.74 LAP -.67 LOP 267.84 VP 38.256 GAP -3.21 AZP 89.79 TAL 233.44 TAP 341.04 RCA 107.73 APO 163.84 V2 34.848
 RC 73.792 GL -3.26 GP 30.49 ZAL 160.15 ZAP 60.24 ETS 343.12 ZAE 148.27 ETE 64.42 ZAC 112.67 ETC 149.09 CLP -54.83

PLANETOCENTRIC CONIC
 C3 37.030 VHL 6.085 DLA -3.06 RAL 1.14 RAD 6568.4 VEL 12.586 PTH 2.28 VHP 4.649 DPA 38.08 RAP 17.53 ECC 1.6094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 14 47 2272.03 -20.92 45.15 232.02 109.53 1 52 39 1672.0 -18.07 37.64
 90.00 12 27 26 5105.75 24.70 226.72 234.04 75.69 13 52 31 4505.7 22.49 218.74
 100.00 2 34 42 2014.23 -22.14 25.72 231.54 110.61 3 8 16 1414.2 -19.14 18.21
 100.00 13 50 12 4838.77 25.96 206.72 233.67 74.63 15 10 50 4238.8 23.59 198.71
 110.00 3 39 40 1810.85 -25.43 8.82 230.08 113.66 4 9 51 1210.8 -22.01 1.33
 110.00 15 1 43 4614.93 29.35 188.56 232.51 71.63 16 18 38 4014.9 26.56 180.49

MID-COURSE EXECUTION ACCURACY
 SGT 490.9 SGR 754.6 SG3 283.2
 RRT -.1580 RRF -.8363 RTF .1768
 SGB 900.2 R23 .0457 R13 -.8363
 SG1 761.3 SG2 480.5 THA 99.81

ORBIT DETERMINATION ACCURACY
 ST 223.2 SR 184.6 SS 487.2
 CRT .2323 CRS -.5300 CST -.9395
 LSA 539.5 MSA 171.9 SSA 25.5
 EL1 233.1 EL2 171.9 ALF 25.29

DIFFERENTIAL CORRECTIONS
 TDE -.1928 TRA -.4587 TC3 .1189 BAU .2603
 RDE -.1471 RRA .4263 RC3 .5123 FAU .10022
 FDE -1.2340 FRA -1.1921 FC3 -2.3431 BSP 2050
 BDE .2423 BRA .6262 BC3 .5259 FSP -842

LAUNCH DATE MAR 1 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC
 RL 148.24 LAL -.00 LOL 160.24 VL 28.533 GAL -10.62 AZL 90.92 HCA 110.77 SMA 135.92 ECC .20476 INC .9167 V1 30.058
 RP 108.77 LAP -.86 LOP 271.01 VP 38.260 GAP -2.64 AZP 89.67 TAL 233.59 TAP 344.36 RCA 108.09 APO 163.75 V2 34.839
 RC 76.053 GL -4.26 GP 32.21 ZAL 160.04 ZAP 64.89 ETS 345.58 ZAE 147.61 ETE 71.37 ZAC 110.37 ETC 149.82 CLP -59.90

PLANETOCENTRIC CONIC
 C3 36.546 VHL 6.045 DLA -4.00 RAL 1.47 RAD 6568.4 VEL 12.566 PTH 2.28 VHP 4.514 DPA 38.81 RAP 14.66 ECC 1.6015
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 10 2239.26 -20.16 43.05 231.88 110.32 2 0 30 1639.3 -17.21 35.61
 90.00 12 21 41 5131.88 25.12 228.51 234.51 76.49 13 47 12 4531.9 23.02 220.48
 100.00 2 42 38 1982.91 -21.38 23.70 231.38 111.40 3 15 41 1382.9 -18.28 16.28
 100.00 13 44 54 4863.46 26.39 208.42 234.15 75.43 15 5 57 4263.5 24.13 200.35
 110.00 3 46 35 1782.72 -24.65 7.01 229.88 114.47 4 16 18 1182.7 -21.13 359.62
 110.00 14 57 26 4636.41 29.80 190.07 233.04 72.42 16 14 43 4036.4 27.11 181.92

MID-COURSE EXECUTION ACCURACY
 SGT 525.3 SGR 808.3 SG3 300.3
 RRT -.3212 RRF -.8609 RTF .3507
 SGB 964.0 R23 .0808 R13 -.8607
 SG1 835.1 SG2 481.5 THA 107.93

ORBIT DETERMINATION ACCURACY
 ST 252.8 SR 162.1 SS 521.9
 CRT .0735 CRS -.3868 CST -.9408
 LSA 577.4 MSA 169.0 SSA 25.3
 EL1 253.3 EL2 161.3 ALF 4.54

DIFFERENTIAL CORRECTIONS
 TDE -.2196 TRA -.5034 TC3 .0514 BAU .2778
 RDE -.1062 RRA .4398 RC3 .5662 FAU .10507
 FDE -1.3593 FRA -1.2301 FC3 -2.4890 BSP 2265
 BDE .2440 BRA .6684 BC3 .5685 FSP -901

LAUNCH DATE MAR 1 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 248.583

RL 148.24 LAL -.00 LOL 160.24 VL 28.542 GAL -10.53 AZL 91.13 MCA 113.93 SMA 135.98 ECC .20310 INC 1.1348 VI 30.058
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.258 GAP -2.09 AZP 89.54 TAL 233.61 TAP 347.54 RCA 108.37 APO 163.60 V2 34.831
 RC 78.340 GL -5.31 GP 33.92 ZAL 159.79 ZAP 69.57 ETS 348.19 ZAE 146.61 ETE 78.37 ZAC 108.00 ETC 150.70 CLP -65.12

PLANETOCENTRIC CONIC

C3 36.092 VHL 6.008 DLA -4.96 RAL 1.90 RAD 6568.4 VEL 12.548 PTH 2.27 VHP 4.413 DPA 39.45 RAP 11.65 ECC 1.5940
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 32 7 2206.01 -19.36 40.94 231.87 111.08 2 8 53 1606.0 -16.32 33.58
 90.00 12 16 9 5158.80 25.54 230.38 235.10 77.34 13 42 8 4558.8 23.54 222.28
 100.00 2 51 8 1951.15 -20.58 21.69 231.36 112.17 3 23 39 1351.1 -17.39 14.34
 100.00 13 39 50 4888.90 26.81 210.19 234.76 76.27 15 1 19 4288.9 24.66 202.06
 110.00 3 54 1 1754.26 -23.83 5.20 229.82 115.26 4 23 15 1154.3 -20.23 357.91
 110.00 14 53 26 4658.55 30.24 191.64 233.70 73.25 16 11 5 4058.5 27.66 183.41

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2535 TRA -.5524 TC3 -.0258 BAU .2996 SGT 582.3 SGR 863.1 SG3 315.0 ST 289.2 SR 144.0 SS 556.8
 ROE -.0622 RRA .4503 RC3 .6203 FAU .10897 RRT -.4711 RRF -.8813 RTF .5049 CRT -.1487 CRS -.1676 CST -.9437
 FOE -1.4807 FRA -1.2503 FC3 -2.6140 BSP 2544 SGB 1041.1 R23 .1058 R13 -.8808 LSA 621.7 MSA 165.0 SSA 24.9
 BOE .2610 BRA .7127 BC3 .6209 FSP -.958 SG1 924.0 SG2 479.7 THA 114.70 EL1 290.2 EL2 141.9 ALF 174.43

LAUNCH DATE MAR 1 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 255.000

RL 148.24 LAL -.00 LOL 160.24 VL 28.542 GAL -10.43 AZL 91.36 MCA 117.09 SMA 135.99 ECC .20158 INC 1.3640 VI 30.058
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.252 GAP -1.57 AZP 89.38 TAL 233.50 TAP 350.60 RCA 108.58 APO 163.40 V2 34.824
 RC 80.651 GL -6.42 GP 35.58 ZAL 159.40 ZAP 74.21 ETS 350.96 ZAE 145.29 ETE 85.21 ZAC 105.61 ETC 151.72 CLP -70.45

PLANETOCENTRIC CONIC

C3 35.664 VHL 5.972 DLA -5.95 RAL 2.43 RAD 6568.4 VEL 12.531 PTH 2.27 VHP 4.346 DPA 39.99 RAP 8.56 ECC 1.5869
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 44 2171.92 -18.51 38.80 232.00 111.82 2 17 56 1571.9 -15.39 31.51
 90.00 12 10 46 5186.86 25.94 232.33 235.82 78.24 13 37 13 4586.9 24.06 224.17
 100.00 3 0 15 1918.61 -19.73 19.64 231.47 112.93 3 32 14 1318.6 -16.45 12.38
 100.00 13 34 56 4915.40 27.23 212.05 235.51 77.16 14 56 51 4315.4 25.19 203.85
 110.00 4 2 3 1725.17 -22.97 3.37 229.88 116.04 4 30 48 1125.2 -19.29 356.18
 110.00 14 49 38 4681.61 30.69 193.29 234.50 74.14 16 7 40 4081.6 28.21 184.97

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2967 TRA -.6063 TC3 -.1138 BAU .3247 SGT 664.5 SGR 914.4 SG3 325.4 ST 334.4 SR 134.9 SS 588.6
 ROE -.0171 RRA .4553 RC3 .6714 FAU .11138 RRT -.5944 RRF -.8976 RTF .6289 CRT -.4109 CRS .1169 CST -.9480
 FOE -1.5871 FRA -1.2433 FC3 -2.7039 BSP 2851 SGB 1130.3 R23 .1245 R13 -.8967 LSA 671.0 MSA 160.2 SSA 24.6
 BOE .2972 BRA .7582 BC3 .6809 FSP -.996 SG1 1024.9 SG2 476.7 THA 120.68 EL1 339.7 EL2 121.1 ALF 169.20

LAUNCH DATE MAR 1 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 261.382

RL 148.24 LAL -.00 LOL 160.24 VL 28.536 GAL -10.33 AZL 91.61 MCA 120.25 SMA 135.94 ECC .20018 INC 1.6064 VI 30.058
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.241 GAP -1.08 AZP 89.19 TAL 233.28 TAP 353.53 RCA 108.73 APO 163.15 V2 34.816
 RC 82.981 GL -7.62 GP 37.20 ZAL 158.86 ZAP 78.76 ETS 353.88 ZAE 143.66 ETE 91.72 ZAC 103.26 ETC 152.83 CLP -75.84

PLANETOCENTRIC CONIC

C3 35.264 VHL 5.938 DLA -6.98 RAL 3.06 RAD 6568.4 VEL 12.515 PTH 2.27 VHP 4.310 DPA 40.46 RAP 5.47 ECC 1.5804
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 7 2136.59 -17.60 36.60 232.26 112.54 2 27 44 1536.6 -14.40 29.39
 90.00 12 5 26 5216.50 26.34 234.41 236.68 79.21 13 32 22 4616.5 24.58 226.18
 100.00 3 10 8 1884.93 -18.82 17.55 231.71 113.66 3 41 33 1284.9 -15.46 10.37
 100.00 13 30 6 4943.38 27.64 214.03 236.39 78.13 14 52 30 4343.4 25.72 205.76
 110.00 4 10 45 1695.13 -22.06 1.52 230.08 116.80 4 39 0 1095.1 -18.29 354.42
 110.00 14 45 58 4705.95 31.13 195.05 235.44 75.10 16 4 24 4106.0 28.77 186.65

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3485 TRA -.6622 TC3 -.2098 BAU .3534 SGT 767.8 SGR 963.1 SG3 332.4 ST 387.8 SR 138.4 SS 620.2
 ROE -.0303 RRA .4556 RC3 .7197 FAU .11251 RRT -.6868 RRF -.9110 RTF .7193 CRT -.6648 CRS .4215 CST -.9527
 FOE -1.6832 FRA -1.2162 FC3 -2.7622 BSP 3213 SGB 1231.7 R23 .1381 R13 -.9096 LSA 727.8 MSA 154.8 SSA 24.1
 BOE .3498 BRA .8038 BC3 .7496 FSP -1028 SG1 1137.4 SG2 472.5 THA 125.80 EL1 399.3 EL2 100.4 ALF 165.73

LAUNCH DATE MAR 1 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 267.730

RL 148.24 LAL -.00 LOL 160.24 VL 28.524 GAL -10.22 AZL 91.86 MCA 123.41 SMA 135.84 ECC .19888 INC 1.8647 VI 30.058
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.226 GAP -.60 AZP 88.97 TAL 232.94 TAP 356.36 RCA 108.83 APO 162.86 V2 34.810
 RC 85.328 GL -8.90 GP 38.76 ZAL 158.17 ZAP 83.16 ETS 356.95 ZAE 141.76 ETE 97.78 ZAC 100.97 ETC 154.00 CLP -81.22

PLANETOCENTRIC CONIC

C3 34.896 VHL 5.907 DLA -8.05 RAL 3.80 RAD 6568.4 VEL 12.501 PTH 2.26 VHP 4.306 DPA 40.87 RAP 2.43 ECC 1.5743
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 26 2099.56 -16.62 34.33 232.67 113.26 2 38 26 1499.6 -13.33 27.20
 90.00 12 0 1 5248.23 26.72 236.66 237.70 80.27 13 27 29 4648.2 25.11 228.36
 100.00 3 20 53 1849.69 -17.84 15.39 232.10 114.39 3 51 43 1249.7 -14.40 8.29
 100.00 13 25 15 4973.33 28.04 216.17 237.43 79.19 14 48 8 4373.3 26.26 207.82
 110.00 4 20 15 1663.79 -21.09 359.61 230.42 117.55 4 47 59 1063.8 -17.23 352.60
 110.00 14 42 22 4731.99 31.57 196.96 236.55 76.14 16 1 14 4132.0 29.34 188.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.4101 TRA -.7195 TC3 -.3131 BAU .3842 SGT 889.9 SGR 1004.2 SG3 334.2 ST 450.6 SR 154.2 SS 648.1
 ROE -.0776 RRA .4485 RC3 .7616 FAU .11192 RRT -.7526 RRF -.9216 RTF .7825 CRT -.8365 CRS .6554 CST -.9575
 FOE -1.7582 FRA -1.1610 FC3 -2.7767 BSP 3589 SGB 1341.7 R23 .1498 R13 -.9193 LSA 790.0 MSA 149.1 SSA 23.5
 BOE .4174 BRA .8479 BC3 .8235 FSP -1038 SG1 1257.5 SG2 468.0 THA 130.43 EL1 469.3 EL2 81.1 ALF 163.52

LAUNCH DATE MAR 1 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 274.044

RL 148.24 LAL -.00 LOL 160.24 VL 28.506 GAL -10.11 AZL 92.14 HCA 126.57 SMA 135.70 ECC .19766 INC 2.1428 V1 30.058
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.207 GAP -.15 AZP 88.72 TAL 232.50 TAP 359.07 RCA 108.88 APO 162.53 V2 34.804
 RC 87.691 GL -10.28 GP 40.27 ZAL 157.31 ZAP 87.36 ETS .15 ZAE 139.65 ETE 103.31 ZAC 98.80 ETC 155.19 CLP -86.54

PLANETOCENTRIC CONIC

C3 34.569 VHL 5.880 DLA -9.20 RAL 4.65 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 4.333 DPA 41.27 RAP 359.50 ECC 1.5689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 50 2060.32 -15.55 31.94 233.23 113.97 2 50 11 1460.3 -12.18 24.89
 90.00 11 54 23 5282.72 27.10 239.11 238.89 81.45 13 22 26 4682.7 25.63 230.75
 100.00 3 32 41 1812.41 -16.78 13.13 232.65 115.11 4 2 54 1212.4 -13.26 6.11
 100.00 13 20 14 5005.86 28.43 218.51 238.65 80.36 14 43 39 4405.9 26.81 210.08
 110.00 4 30 41 1630.77 -20.04 357.62 230.92 118.29 4 57 52 1030.8 -16.10 350.71
 110.00 14 38 43 4760.26 32.01 199.04 237.83 77.30 15 58 3 4160.3 29.93 190.45

DIFFERENTIAL CORRECTIONS

TOE -.4816 TRA -.7756 TC3 -.4210 BAU .4172
 RDE .1266 RRA .4360 RC3 .7986 FAU .11007
 FDE -1.8196 FRA -1.0893 FC3 -2.7565 BSP .4012
 BOE .4979 BRA .8897 BC3 .9028 FSP -1042

MID-COURSE EXECUTION ACCURACY

SGT 1025.5 SGR 1040.3 SG3 332.5
 RRT -.7990 RRF -.9306 RTF .8262
 SGB 1460.8 R23 .1596 R13 -.9271
 SG1 1385.4 SG2 463.1 THA 134.48

ORBIT DETERMINATION ACCURACY

ST 522.7 SR 180.8 SS 675.7
 CRT -.9309 CRS .8064 CST -.9621
 LSA 861.0 MSA 143.6 SSA 22.8
 EL1 549.5 EL2 62.8 ALF 161.91

LAUNCH DATE MAR 1 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 280.326

RL 148.24 LAL -.00 LOL 160.24 VL 28.483 GAL -9.99 AZL 92.44 HCA 129.73 SMA 135.52 ECC .19651 INC 2.4440 V1 30.058
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.186 GAP .28 AZP 88.44 TAL 231.97 TAP 1.69 RCA 108.89 APO 162.15 V2 34.799
 RC 90.065 GL -11.79 GP 41.74 ZAL 156.29 ZAP 91.30 ETS 3.46 ZAE 137.36 ETE 108.28 ZAC 96.76 ETC 156.36 CLP -91.74

PLANETOCENTRIC CONIC

C3 34.293 VHL 5.856 DLA -10.42 RAL 5.62 RAD 6568.4 VEL 12.477 PTH 2.26 VHP 4.390 DPA 41.68 RAP 356.71 ECC 1.5644
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 29 35 2018.22 -14.37 29.42 233.97 114.66 3 3 13 1418.2 -10.93 22.43
 90.00 11 48 23 5320.76 27.45 241.84 240.28 82.77 13 17 4 4720.8 26.17 233.41
 100.00 3 45 44 1772.51 -15.61 10.75 233.36 115.82 4 15 17 1172.5 -12.01 3.80
 100.00 13 14 55 5041.71 28.81 221.10 240.06 81.67 14 38 56 4441.7 27.36 212.60
 110.00 4 42 14 1595.62 -18.89 355.54 231.58 119.03 5 8 49 995.6 -14.87 348.73
 110.00 14 34 55 4791.37 32.45 201.36 239.33 78.61 15 54 46 4191.4 30.54 192.66

DIFFERENTIAL CORRECTIONS

TOE -.5636 TRA -.8288 TC3 -.5316 BAU .4507
 RDE .1751 RRA .4155 RC3 .8269 FAU .10663
 FDE -1.8596 FRA -.9951 FC3 -2.6919 BSP .4432
 BOE .5902 BRA .9271 BC3 .9830 FSP -1024

MID-COURSE EXECUTION ACCURACY

SGT 1171.1 SGR 1066.8 SG3 325.9
 RRT -.8310 RRF -.9378 RTF .8562
 SGB 1584.2 R23 .1696 R13 -.9327
 SG1 1516.4 SG2 458.3 THA 138.21

ORBIT DETERMINATION ACCURACY

ST 604.6 SR 213.5 SS 700.2
 CRT -.9737 CRS .8915 CST -.9663
 LSA 939.1 MSA 138.5 SSA 21.9
 EL1 639.6 EL2 45.9 ALF 160.92

LAUNCH DATE MAR 1 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 286.576

RL 148.24 LAL -.00 LOL 160.24 VL 28.456 GAL -9.86 AZL 92.77 HCA 132.88 SMA 135.31 ECC .19543 INC 2.7742 V1 30.058
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.161 GAP .69 AZP 88.11 TAL 231.34 TAP 4.22 RCA 108.86 APO 161.75 V2 34.795
 RC 92.449 GL -13.44 GP 43.21 ZAL 155.08 ZAP 94.94 ETS 6.88 ZAE 134.95 ETE 112.71 ZAC 94.88 ETC 157.48 CLP -96.79

PLANETOCENTRIC CONIC

C3 34.087 VHL 5.838 DLA -11.75 RAL 6.72 RAD 6568.3 VEL 12.468 PTH 2.26 VHP 4.478 DPA 42.14 RAP 354.06 ECC 1.5610
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 44 56 1972.53 -13.06 26.71 234.92 115.35 3 17 49 1372.5 -9.53 19.80
 90.00 11 41 49 5363.42 27.78 244.92 241.88 84.28 13 11 12 4763.4 26.70 236.42
 100.00 4 0 19 1729.32 -14.32 8.19 234.29 116.52 4 29 9 1129.3 -10.64 1.33
 100.00 13 9 7 5081.86 29.17 224.03 241.71 83.17 14 33 49 4481.9 27.92 215.45
 110.00 4 55 5 1557.81 -17.63 353.34 232.45 119.77 5 21 3 957.8 -13.53 346.62
 110.00 14 30 51 4826.13 32.89 203.98 241.07 80.10 15 51 17 4226.1 31.17 195.18

DIFFERENTIAL CORRECTIONS

TOE -.6572 TRA -.8774 TC3 -.6421 BAU .4849
 RDE .2254 RRA .3894 RC3 .8486 FAU .10216
 FDE -1.8867 FRA -.8908 FC3 -2.5947 BSP .4885
 BOE .6948 BRA .9599 BC3 1.0641 FSP -1002

MID-COURSE EXECUTION ACCURACY

SGT 1323.4 SGR 1087.7 SG3 316.3
 RRT -.8536 RRF -.9442 RTF .8773
 SGB 1713.1 R23 .1791 R13 -.9371
 SG1 1651.8 SG2 453.9 THA 141.51

ORBIT DETERMINATION ACCURACY

ST 697.2 SR 252.1 SS 724.6
 CRT -.9915 CRS .9397 CST -.9701
 LSA 1027.7 MSA 134.0 SSA 20.8
 EL1 740.7 EL2 30.9 ALF 160.24

LAUNCH DATE MAR 1 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 292.796

RL 148.24 LAL -.00 LOL 160.24 VL 28.424 GAL -9.73 AZL 93.14 HCA 136.03 SMA 135.06 ECC .19440 INC 3.1400 V1 30.058
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.134 GAP 1.08 AZP 87.74 TAL 230.63 TAP 6.66 RCA 108.80 APO 161.31 V2 34.791
 RC 94.840 GL -15.26 GP 44.71 ZAL 153.67 ZAP 98.25 ETS 10.41 ZAE 132.45 ETE 116.60 ZAC 93.15 ETC 158.53 CLP -101.65

PLANETOCENTRIC CONIC

C3 33.975 VHL 5.829 DLA -13.21 RAL 7.97 RAD 6568.3 VEL 12.464 PTH 2.25 VHP 4.596 DPA 42.71 RAP 351.56 ECC 1.5591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 2 19 1922.25 -11.57 23.76 236.12 116.03 3 34 21 1322.2 -7.98 16.92
 90.00 11 34 23 5412.04 28.06 248.45 243.75 86.03 13 4 35 4812.0 27.21 239.88
 100.00 4 16 47 1682.00 -12.86 5.44 235.46 117.22 4 44 49 1082.0 -9.11 358.65
 100.00 13 2 37 5127.52 29.50 227.39 243.62 84.91 14 28 4 4527.5 28.48 218.73
 110.00 5 9 33 1516.73 -16.22 350.98 233.54 120.51 5 34 50 916.7 -12.05 344.36
 110.00 14 26 20 4865.56 33.31 206.98 243.11 81.83 15 47 25 4265.6 31.82 198.07

DIFFERENTIAL CORRECTIONS

TOE -.7632 TRA -.9189 TC3 -.7495 BAU .5182
 RDE .2757 RRA .3554 RC3 .8603 FAU .09649
 FDE -1.8950 FRA -.7719 FC3 -2.4588 BSP .5320
 BOE .8115 BRA .9852 BC3 1.1410 FSP -960

MID-COURSE EXECUTION ACCURACY

SGT 1478.9 SGR 1099.1 SG3 302.9
 RRT -.8690 RRF -.9495 RTF .8920
 SGB 1842.5 R23 .1895 R13 -.9402
 SG1 1786.7 SG2 450.1 THA 144.56

ORBIT DETERMINATION ACCURACY

ST 800.6 SR 293.1 SS 746.3
 CRT -.9973 CRS .9667 CST -.9735
 LSA 1125.4 MSA 130.6 SSA 19.4
 EL1 852.3 EL2 20.3 ALF 159.93

LAUNCH DATE MAR 1 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 298.987

RL 148.24 LAL -0.00 LOL 160.24 VL 28.389 GAL -9.59 AZL 93.55 HCA 139.18 SMA 134.78 ECC .19343 INC 3.5500 V1 30.05H
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.105 GAP 1.46 AZP 87.31 TAL 229.83 TAP 9.02 RCA 108.71 APO 160.86 V2 34.78H
 RC 97.236 GL -17.29 GP 46.27 ZAL 152.03 ZAP 101.19 ETS 14.04 ZAE 129.87 ETE 120.02 ZAC 91.58 ETC 159.50 CLP-106.31

PLANETOCENTRIC CONIC

C3 33.993 VHL 5.830 CLA -14.82 RAL 9.38 RAD 6568.3 VEL 12.465 PTH 2.25 VHP 4.748 CPA 43.41 RAP 349.18 ECC 1.5594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 14 1866.12 -9.87 20.51 237.63 116.67 3 53 21 1266.1 -6.22 13.74
 90.00 11 25 44 5468.43 28.26 252.56 245.93 88.08 12 56 53 4868.4 27.69 243.94
 100.00 4 35 35 1629.46 -11.20 2.41 236.93 117.90 5 2 45 1029.5 -7.38 355.71
 100.00 12 55 4 5180.33 29.75 231.29 245.86 86.95 14 21 25 4580.3 29.01 222.57
 110.00 5 25 59 1471.60 -14.64 348.44 234.93 121.24 5 50 31 871.6 -10.40 341.91
 110.00 14 21 10 4910.94 33.69 210.47 245.49 83.86 15 43 1 4310.9 32.48 201.44

DIFFERENTIAL CORRECTIONS

TCE -.8848 TRA -.9524 TC3 -.8515 BAU .5513
 RDE .3291 RRA .3159 RC3 .8641 FAU .09016
 FDE-1.8948 FRA -.6501 FC3-2.2962 BSP 5786
 BDE .9440 BRA 1.0034 BC3 1.2132 FSP -917

MID-COURSE EXECUTION ACCURACY

SGT 1636.8 SGR 1105.9 SG3 287.5
 RRT -.8798 RRF -.9544 RTF .9028
 SGB 1975.4 R23 .1999 R13 -.9427
 SG1 1924.1 SG2 447.2 THA 147.29

ORBIT DETERMINATION ACCURACY

ST 917.2 SR 338.8 SS 768.9
 CRT -.9978 CRS .9822 CST -.9767
 LSA 1237.1 MSA 128.4 SSA 17.8
 EL1 977.6 EL2 20.9 ALF 159.76

LAUNCH DATE MAR 1 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 305.150

RL 148.24 LAL -0.00 LOL 160.24 VL 28.351 GAL -9.44 AZL 94.02 HCA 142.33 SMA 134.49 ECC .19250 INC 4.0156 V1 30.05H
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.075 GAP 1.82 AZP 86.82 TAL 228.97 TAP 11.30 RCA 108.60 APO 160.37 V2 34.786
 RC 99.636 GL -19.57 GP 47.94 ZAL 150.12 ZAP 103.73 ETS 17.78 ZAE 127.22 ETE 123.00 ZAC 90.13 ETC 160.39 CLP-110.76

PLANETOCENTRIC CONIC

C3 34.191 VHL 5.847 CLA -16.61 RAL 10.99 RAD 6568.3 VEL 12.472 PTH 2.26 VHP 4.938 CPA 44.28 RAP 346.85 ECC 1.5627
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 29 1802.35 -7.90 16.86 239.54 117.28 4 15 31 1202.4 -4.19 10.15
 90.00 11 15 19 5535.13 28.31 257.44 248.48 90.53 12 47 34 4935.1 28.09 248.78
 100.00 4 57 26 1570.20 -9.30 359.05 238.79 118.54 5 23 36 970.2 -5.41 352.41
 100.00 12 46 3 5242.51 29.89 235.91 248.48 89.38 14 13 26 4642.5 29.48 227.13
 110.00 5 44 54 1421.47 -12.86 345.65 236.68 121.95 6 8 36 821.5 -8.54 339.21
 110.00 14 15 4 4964.01 34.00 214.58 248.29 86.27 15 37 48 4364.0 33.11 205.45

DIFFERENTIAL CORRECTIONS

TCE-1.0240 TRA -.9747 TC3 -.9438 BAU .5825
 RDE .3838 RRA .2684 RC3 .8564 FAU .08303
 FDE-1.8801 FRA -.5221 FC3-2.1022 BSP 6225
 BDE 1.0936 BRA 1.0110 BC3 1.2744 FSP -859

MID-COURSE EXECUTION ACCURACY

SGT 1793.9 SGR 1104.5 SG3 269.4
 RRT -.8864 RRF -.9587 RTF .9106
 SGB 2106.7 R23 .2110 R13 -.9444
 SG1 2059.0 SG2 445.5 THA 149.82

ORBIT DETERMINATION ACCURACY

ST 1047.5 SR 386.2 SS 789.5
 CRT -.9962 CRS .9910 CST -.9795
 LSA 1361.3 MSA 127.7 SSA 15.9
 EL1 1116.0 EL2 31.6 ALF 159.82

LAUNCH DATE MAR 1 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 311.286

RL 148.24 LAL -0.00 LOL 160.24 VL 28.309 GAL -9.28 AZL 94.55 HCA 145.48 SMA 134.17 ECC .19162 INC 4.5527 V1 30.05H
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.043 GAP 2.16 AZP 86.25 TAL 228.03 TAP 13.51 RCA 108.46 APO 159.88 V2 34.784
 RC 102.038 GL -22.13 GP 49.78 ZAL 147.92 ZAP 105.85 ETS 21.66 ZAE 124.48 ETE 125.62 ZAC 88.79 ETC 161.21 CLP-115.02

PLANETOCENTRIC CONIC

C3 34.647 VHL 5.886 CLA -18.63 RAL 12.82 RAD 6568.4 VEL 12.491 PTH 2.26 VHP 5.171 CPA 45.36 RAP 344.51 ECC 1.5702
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 12 1728.25 -5.57 12.67 241.98 117.81 4 42 0 1128.2 -1.81 6.01
 90.00 11 2 15 5615.92 28.12 263.34 251.44 93.48 12 35 51 5015.9 28.31 254.68
 100.00 5 23 16 1502.12 -7.06 355.23 241.17 119.12 5 48 18 902.1 -3.12 348.66
 100.00 12 34 52 5317.28 29.81 241.47 251.54 92.30 14 3 29 4717.3 29.81 232.66
 110.00 6 7 0 1365.09 -10.80 342.57 238.90 122.63 6 29 45 765.1 -6.43 336.22
 110.00 14 7 37 5027.07 34.17 219.49 251.61 89.18 15 31 24 4427.1 33.68 210.29

DIFFERENTIAL CORRECTIONS

TCE-1.1868 TRA -.9847 TC3-1.0230 BAU .6127
 RDE .4432 RRA .2146 RC3 .8384 FAU .07554
 FDE-1.8597 FRA -.3972 FC3-1.8875 BSP 6693
 BDE 1.2669 BRA 1.0078 BC3 1.3227 FSP -802

MID-COURSE EXECUTION ACCURACY

SGT 1951.5 SGR 1099.5 SG3 250.1
 RRT -.8902 RRF -.9626 RTF .9169
 SGB 2239.9 R23 .2217 R13 -.9460
 SG1 2195.2 SG2 445.2 THA 152.12

ORBIT DETERMINATION ACCURACY

ST 1195.0 SR 437.5 SS 811.2
 CRT -.9938 CRS .9960 CST -.9821
 LSA 1503.6 MSA 128.3 SSA 14.0
 EL1 1271.7 EL2 45.6 ALF 159.98

LAUNCH DATE MAR 1 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 317.395

RL 148.24 LAL -0.00 LOL 160.24 VL 28.265 GAL -9.12 AZL 95.18 HCA 148.62 SMA 133.83 ECC .19078 INC 5.1828 V1 30.05H
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.009 GAP 2.49 AZP 85.57 TAL 227.03 TAP 15.65 RCA 108.30 APO 159.36 V2 34.783
 RC 104.441 GL -25.04 GP 51.84 ZAL 145.36 ZAP 107.50 ETS 25.71 ZAE 121.63 ETE 127.94 ZAC 87.51 ETC 162.01 CLP-119.13

PLANETOCENTRIC CONIC

C3 35.475 VHL 5.956 CLA -20.91 RAL 14.94 RAD 6568.4 VEL 12.524 PTH 2.27 VHP 5.460 CPA 46.66 RAP 342.05 ECC 1.5838
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 18 1639.18 -2.72 7.67 245.17 118.20 5 14 38 1039.2 1.07 1.04
 90.00 10 45 2 5716.92 27.49 270.66 254.87 97.09 12 20 19 5116.9 28.18 262.06
 100.00 5 54 40 1421.79 -4.38 350.78 244.25 119.60 6 18 22 821.8 -4.40 344.24
 100.00 12 20 21 5409.54 29.36 248.29 255.11 95.86 13 50 31 4809.5 29.87 239.52
 110.00 6 33 18 1300.70 -8.42 339.11 241.76 123.25 6 54 59 700.7 -3.99 332.83
 110.00 13 58 12 5103.39 34.09 225.45 255.52 92.70 15 23 16 4503.4 34.09 216.21

DIFFERENTIAL CORRECTIONS

TCE-1.3788 TRA -.9775 TC3-1.0823 BAU .6397
 RDE .5052 RRA .1509 RC3 .8048 FAU .06754
 FDE-1.8280 FRA -.2713 FC3-1.6481 BSP 7117
 BDE 1.4684 BRA .9891 BC3 1.3488 FSP -732

MID-COURSE EXECUTION ACCURACY

SGT 2105.9 SGR 1086.0 SG3 229.0
 RRT -.8907 RRF -.9659 RTF .9218
 SGB 2369.5 R23 .2326 R13 -.9472
 SG1 2327.0 SG2 446.8 THA 154.31

ORBIT DETERMINATION ACCURACY

ST 1360.9 SR 489.1 SS 830.9
 CRT -.9913 CRS .9985 CST -.9845
 LSA 1662.6 MSA 130.4 SSA 11.9
 EL1 1444.8 EL2 60.5 ALF 160.35

LAUNCH DATE MAR 1 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 323.477

RL 148.24 LAL -1.00 LOL 160.24 VL 28.219 GAL -8.94 AZL 95.94 MCA 151.76 SMA 133.48 ECC .18999 INC 5.9375 V1 30.058
 RP 108.95 LAP -2.81 LOP 312.12 VP 37.975 GAP 2.80 AZP 84.77 TAL 225.97 TAP 17.73 RCA 108.12 APO 158.84 V2 34.783
 RC 106.844 GL -28.36 GP 54.18 ZAL 142.38 ZAP 108.66 ETS 29.98 ZAE 118.63 ETE 130.08 ZAC 86.24 ETC 162.83 CLP-123.15

PLANETOCENTRIC CONIC

C3 36.859 VHL 6.071 CLA -23.50 RAL 17.41 RAD 6568.4 VEL 12.579 PTH 2.28 VHP 5.819 DPA 48.19 RAP 339.33 ECC 1.6066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 31 35 1525.43 .95 1.32 249.45 118.30 5 57 1 925.4 4.72 354.68
 90.00 10 20 25 5850.01 26.01 280.12 258.71 101.61 11 57 55 5250.0 27.35 271.70
 100.00 6 34 22 1322.78 -1.03 345.33 248.35 119.88 6 56 25 722.8 2.95 338.81
 100.00 12 0 19 5527.90 28.23 256.90 259.19 100.26 13 32 27 4927.9 29.36 248.28
 110.00 7 5 22 1225.60 -5.60 335.13 245.51 123.78 7 25 47 625.6 -1.12 328.91
 110.00 13 45 49 5197.83 33.54 232.77 260.13 97.00 15 12 27 4597.8 34.15 223.58

DIFFERENTIAL CORRECTIONS

TDE-1.6126 TRA -.9508 TC3-1.1168 BAU .6645
 RDE .5726 RRA .0784 RC3 .7557 FAU .05942
 FDE-1.7928 FRA -.1534 FC3-1.3956 BSP 7574
 BDE 1.7113 BRA .9541 BC3 1.3484 FSP -666

MID-COURSE EXECUTION ACCURACY

SGT 2261.0 SGR 1068.0 SG3 207.3
 RRT -.8886 RRF -.9684 RTF .9265
 SGB 2500.6 R23 .2416 R13 -.9488
 SG1 2459.7 SG2 450.3 THA 156.39

ORBIT DETERMINATION ACCURACY

ST 1550.4 SR 541.7 SS 851.4
 CRT -.9891 CRS .9996 CST -.9868
 LSA 1845.0 MSA 133.6 SSA 9.9
 EL1 1640.6 EL2 75.4 ALF 160.90

LAUNCH DATE MAR 1 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 329.532

RL 148.24 LAL -1.00 LOL 160.24 VL 28.171 GAL -8.76 AZL 96.86 MCA 154.89 SMA 133.12 ECC .18924 INC 6.8637 V1 30.058
 RP 108.94 LAP -2.91 LOP 315.29 VP 37.939 GAP 3.11 AZP 83.78 TAL 224.85 TAP 19.74 RCA 107.93 APO 158.31 V2 34.784
 RC 109.246 GL -32.15 GP 56.87 ZAL 138.91 ZAP 109.28 ETS 34.54 ZAE 115.42 ETE 132.15 ZAC 84.91 ETC 163.77 CLP-127.17

PLANETOCENTRIC CONIC

C3 39.103 VHL 6.253 CLA -26.43 RAL 20.32 RAD 6568.5 VEL 12.668 PTH 2.30 VHP 6.276 DPA 49.97 RAP 336.16 ECC 1.6435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 6 1355.45 6.39 351.80 255.63 117.64 6 59 41 755.4 10.04 345.02
 90.00 9 38 7 761.82 22.56 315.82 262.56 107.58 9 50 49 161.8 24.76 307.84
 100.00 7 28 43 1188.74 3.51 337.97 254.05 119.70 7 48 32 588.7 7.44 331.39
 100.00 11 29 11 5691.80 25.71 268.42 263.59 105.81 13 4 3 5091.8 27.63 260.14
 110.00 7 45 52 1134.90 -2.15 330.38 250.53 124.12 8 4 47 534.9 2.35 324.17
 110.00 13 28 31 5318.40 32.17 241.90 265.43 102.24 14 57 10 4718.4 33.52 232.93

DIFFERENTIAL CORRECTIONS

TDE-1.9031 TRA -.8961 TC3-1.1160 BAU .6844
 RDE .6409 RRA -.0083 RC3 .6844 FAU .05105
 FDE-1.7490 FRA -.0400 FC3-1.1303 BSP 7995
 BDE 2.0081 BRA .8961 BC3 1.3092 FSP -591

MID-COURSE EXECUTION ACCURACY

SGT 2414.4 SGR 1038.1 SG3 184.7
 RRT -.8821 RRF -.9694 RTF .9311
 SGB 2628.1 R23 .2491 R13 -.9506
 SG1 2588.2 SG2 456.2 THA 158.53

ORBIT DETERMINATION ACCURACY

ST 1765.7 SR 587.8 SS 869.3
 CRT -.9869 CRS .9998 CST -.9890
 LSA 2049.4 MSA 137.7 SSA 8.1
 EL1 1858.8 EL2 90.0 ALF 161.77

LAUNCH DATE MAR 1 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 335.560

RL 148.24 LAL -1.00 LOL 160.24 VL 28.121 GAL -8.57 AZL 98.03 MCA 158.02 SMA 132.74 ECC .18852 INC 8.0346 V1 30.058
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.903 GAP 3.39 AZP 82.54 TAL 223.68 TAP 21.69 RCA 107.72 APO 157.77 V2 34.785
 RC 111.645 GL -36.48 GP 59.97 ZAL 134.88 ZAP 109.32 ETS 39.52 ZAE 111.93 ETE 134.35 ZAC 83.44 ETC 165.01 CLP-131.38

PLANETOCENTRIC CONIC

C3 42.742 VHL 6.538 CLA -29.73 RAL 23.81 RAD 6568.6 VEL 12.810 PTH 2.33 VHP 6.873 DPA 51.94 RAP 332.27 ECC 1.7034
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.53 7 4 8 1330.87 15.34 354.58 265.09 115.79 7 26 19 730.9 18.68 347.40
 99.47 9 38 56 831.31 15.35 317.87 265.10 115.78 9 52 47 231.3 18.70 310.69
 100.00 9 17 4 901.19 12.91 321.80 263.84 117.20 9 32 5 301.2 16.45 314.80
 100.00 10 8 41 736.23 17.81 312.01 266.30 114.41 10 20 57 136.2 20.96 304.63
 110.00 8 40 28 1016.68 2.37 324.21 257.55 124.11 8 57 25 416.7 6.83 317.96
 110.00 13 1 47 5481.54 29.20 253.68 271.18 108.61 14 33 8 4881.5 31.46 245.20

DIFFERENTIAL CORRECTIONS

TDE-2.2776 TRA -.8040 TC3-1.0714 BAU .6988
 RDE .7051 RRA -.1105 RC3 .5894 FAU .04274
 FDE-1.7016 FRA .0628 FC3 -.8657 BSP 8440
 BDE 2.3843 BRA .8115 BC3 1.2228 FSP -518

MID-COURSE EXECUTION ACCURACY

SGT 2570.1 SGR 994.1 SG3 161.9
 RRT -.8699 RRF -.9671 RTF .9370
 SGB 2755.6 R23 .2521 R13 -.9536
 SG1 2716.3 SG2 463.9 THA 160.82

ORBIT DETERMINATION ACCURACY

ST 2011.3 SR 619.3 SS 885.9
 CRT -.9845 CRS .9990 CST -.9910
 LSA 2278.9 MSA 142.0 SSA 6.4
 EL1 2101.9 EL2 103.8 ALF 163.09

LAUNCH DATE MAR 1 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 341.558

RL 148.24 LAL -1.00 LOL 160.24 VL 28.070 GAL -8.37 AZL 99.57 MCA 161.13 SMA 132.36 ECC .18784 INC 9.5714 V1 30.058
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.867 GAP 3.67 AZP 80.93 TAL 222.44 TAP 23.58 RCA 107.50 APO 157.22 V2 34.787
 RC 114.042 GL -41.39 GP 63.56 ZAL 130.20 ZAP 108.72 ETS 45.21 ZAE 108.05 ETE 137.06 ZAC 81.72 ETC 166.89 CLP-136.12

PLANETOCENTRIC CONIC

C3 48.783 VHL 6.984 CLA -33.38 RAL 28.07 RAD 6568.8 VEL 13.044 PTH 2.38 VHP 7.683 DPA 54.04 RAP 327.26 ECC 1.8028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.54 6 18 17 1561.71 15.96 12.36 272.34 119.72 6 44 19 961.7 19.79 5.40
 108.46 10 58 48 666.85 15.97 305.79 272.35 119.71 11 9 55 66.8 19.80 298.82
 71.54 6 18 17 1561.71 15.96 12.36 272.34 119.72 6 44 19 961.7 19.79 5.40
 108.46 10 58 48 666.85 15.97 305.79 272.35 119.71 11 9 55 66.8 19.80 298.82
 110.00 10 12 11 809.79 10.17 313.26 268.73 122.81 10 25 41 209.8 14.42 306.74
 110.00 12 4 5 5754.81 21.93 271.56 275.74 116.90 13 40 0 5154.8 25.36 264.08

DIFFERENTIAL CORRECTIONS

TDE-2.7782 TRA -.6537 TC3 -.9719 BAU .7032
 RDE .7426 RRA -.2338 RC3 .4669 FAU .03451
 FDE-1.6502 FRA .1562 FC3 -.6125 BSP 8883
 BDE 2.8758 BRA .6942 BC3 1.0782 FSP -445

MID-COURSE EXECUTION ACCURACY

SGT 2729.4 SGR 921.5 SG3 139.0
 RRT -.8454 RRF -.9564 RTF .9447
 SGB 2880.8 R23 .2488 R13 -.9580
 SG1 2841.7 SG2 472.8 THA 163.60

ORBIT DETERMINATION ACCURACY

ST 2287.6 SR 613.4 SS 899.3
 CRT -.9806 CRS .9968 CST -.9930
 LSA 2529.1 MSA 146.1 SSA 5.0
 EL1 2365.5 EL2 116.3 ALF 165.23

LAUNCH DATE MAR 1 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 347.520

RL 148.24 LAL -0.00 LOL 160.24 VL 28.017 GAL -8.16 AZL 101.69 HCA 164.23 SMA 131.97 ECC .18718 INC11.6888 VI 30.058
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.831 GAP 3.93 AZP 78.74 TAL 221.16 TAP 25.39 RCA 107.27 APO 156.67 V2 34.790
 RC 116.435 GL -46.85 GP 67.71 ZAL 124.83 ZAP 107.43 ETS 52.19 ZAE 103.63 ETE 140.97 ZAC 79.57 ETC 170.09 CLP-142.17

PLANETOCENTRIC CONIC

C3 59.307 VHL 7.701 DLA -37.26 RAL 33.37 RAD 6569.1 VEL 13.441 PTH 2.46 VHP 8.836 DPA 56.05 RAP 320.60 ECC 1.9760
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.71 6 0 33 1726.99 15.78 25.33 281.55 124.20 6 29 20 1127.0 20.15 18.70
 115.29 11 58 50 5886.17 15.79 278.14 281.56 124.19 13 36 56 5286.2 20.17 271.52
 64.71 6 0 33 1726.99 15.78 25.33 281.55 124.20 6 29 20 1127.0 20.15 18.70
 115.29 11 58 50 5886.17 15.79 278.14 281.56 124.19 13 36 56 5286.2 20.17 271.52
 64.71 6 0 33 1726.99 15.78 25.33 281.55 124.20 6 29 20 1127.0 20.15 18.70
 115.29 11 58 50 5886.17 15.79 278.14 281.56 124.19 13 36 56 5286.2 20.17 271.52

DIFFERENTIAL CORRECTIONS

TDE-3.4732 TRA -.4040 TC3 -.8081 BAU .6884
 ROE .6854 RRA -.3809 RC3 .3173 FAU .02641
 FDE-1.5975 FRA .2428 FC3 -.3856 BSP 9267
 BDE 3.5402 BRA .5553 BC3 .8682 FSP -370

MID-COURSE EXECUTION ACCURACY

SGT 2893.0 SGR 791.0 SG3 116.5
 RRT -.7829 RRF -.9165 RTF .9552
 SGB 2999.1 R23 .2368 R13 -.9643
 SG1 2960.3 SG2 480.9 THA 167.58

ORBIT DETERMINATION ACCURACY

ST 2586.8 SR 521.2 SS 909.0
 CRT -.9688 CRS .9888 CST -.9949
 LSA 2787.0 MSA 149.2 SSA 3.8
 EL1 2635.7 EL2 126.9 ALF 168.93

LAUNCH DATE MAR 1 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 353.433

RL 148.24 LAL -0.00 LOL 160.24 VL 27.963 GAL -7.93 AZL 104.81 HCA 167.30 SMA 131.57 ECC .18652 INC14.8050 VI 30.058
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.794 GAP 4.17 AZP 75.54 TAL 219.81 TAP 27.11 RCA 107.03 APO 156.11 V2 34.794
 RC 118.823 GL -52.69 GP 72.40 ZAL 118.77 ZAP 105.42 ETS 62.07 ZAE 98.44 ETE 147.79 ZAC 76.75 ETC 176.32 CLP-151.59

PLANETOCENTRIC CONIC

C3 79.169 VHL 8.898 DLA -41.03 RAL 40.04 RAD 6569.5 VEL 14.160 PTH 2.58 VHP 10.590 DPA 57.56 RAP 311.61 ECC 2.3029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.97 5 59 49 1873.68 14.25 36.41 293.06 128.90 6 31 3 1273.7 19.18 30.24
 121.03 12 52 47 5876.55 14.27 276.17 293.07 128.89 14 30 44 5276.5 19.19 270.00
 58.97 5 59 49 1873.68 14.25 36.41 293.06 128.90 6 31 3 1273.7 19.18 30.24
 121.03 12 52 47 5876.55 14.27 276.17 293.07 128.89 14 30 44 5276.5 19.19 270.00
 58.97 5 59 49 1873.68 14.25 36.41 293.06 128.90 6 31 3 1273.7 19.18 30.24
 121.03 12 52 47 5876.55 14.27 276.17 293.07 128.89 14 30 44 5276.5 19.19 270.00

DIFFERENTIAL CORRECTIONS

TDE-4.4717 TRA .0308 TC3 -.5820 BAU .6376
 ROE .3149 RRA -.5250 RC3 .1554 FAU .01866
 FDE-1.5585 FRA .3257 FC3 -.2040 BSP 9644
 BDE 4.4828 BRA .5259 BC3 .6024 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 3060.2 SGR 564.3 SG3 95.3
 RRT -.5108 RRF -.6886 RTF .9698
 SGB 3111.8 R23 .2100 R13 -.9731
 SG1 3074.1 SG2 482.9 THA 174.48

ORBIT DETERMINATION ACCURACY

ST 2879.7 SR 243.4 SS 921.5
 CRT -.8348 CRS .8762 CST -.9968
 LSA 3029.6 MSA 149.7 SSA 2.8
 EL1 2886.9 EL2 133.7 ALF 175.95

LAUNCH DATE MAR 1 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 359.270

RL 148.24 LAL -0.00 LOL 160.24 VL 27.908 GAL -7.69 AZL 109.84 HCA 170.31 SMA 131.18 ECC .18578 INC19.8423 VI 30.058
 RP 108.90 LAP -3.27 LOP 331.11 VP 37.757 GAP 4.39 AZP 70.42 TAL 218.38 TAP 28.69 RCA 106.81 APO 155.55 V2 34.798
 RC 121.206 GL -58.31 GP 77.14 ZAL 112.13 ZAP 102.70 ETS 79.44 ZAE 92.02 ETE 162.27 ZAC 72.76 ETC 190.39 CLP-171.00

PLANETOCENTRIC CONIC

C3 121.717 VHL 11.033 DLA -43.97 RAL 48.35 RAD 6570.3 VEL 15.590 PTH 2.78 VHP 13.508 DPA 57.72 RAP 299.75 ECC 3.0032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.84 6 15 50 2012.56 10.85 45.62 306.87 132.88 6 49 22 1412.6 16.23 39.95
 125.16 13 43 4 634.31 10.87 299.28 306.89 132.87 13 53 39 34.3 16.25 293.60
 54.84 6 15 50 2012.56 10.85 45.62 306.87 132.88 6 49 22 1412.6 16.23 39.95
 125.16 13 43 4 634.31 10.87 299.28 306.89 132.87 13 53 39 34.3 16.25 293.60
 54.84 6 15 50 2012.56 10.85 45.62 306.87 132.88 6 49 22 1412.6 16.23 39.95
 125.16 13 43 4 634.31 10.87 299.28 306.89 132.87 13 53 39 34.3 16.25 293.60

DIFFERENTIAL CORRECTIONS

TDE-5.7592 TRA .8486 TC3 -.3067 BAU .5001
 RDE-1.2205 RRA -.4739 RC3 .0189 FAU .01088
 FDE-1.5617 FRA .4274 FC3 -.0774 BSP 9917
 BDE 5.8871 BRA .9719 BC3 .3073 FSP -239

MID-COURSE EXECUTION ACCURACY

SGT 3127.1 SGR 721.4 SG3 76.4
 RRT .7351 RRF .6293 RTF .9873
 SGB 3209.2 R23 -.1682 R13 .9832
 SG1 3172.8 SG2 482.0 THA 9.85

ORBIT DETERMINATION ACCURACY

ST 2996.6 SR 642.1 SS 952.7
 CRT -.9755 CRS -.9627 CST -.9986
 LSA 3205.9 MSA 149.3 SSA 2.2
 EL1 3061.5 EL2 138.4 ALF 11.83

LAUNCH DATE MAR 1 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 364.950

RL 148.24 LAL -0.00 LOL 160.24 VL 27.852 GAL -7.41 AZL 119.21 HCA 173.19 SMA 130.77 ECC .18479 INC29.2087 VI 30.058
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.721 GAP 4.56 AZP 60.96 TAL 216.83 TAP 30.01 RCA 106.61 APO 154.94 V2 34.803
 RC 123.581 GL -61.98 GP 78.58 ZAL 105.23 ZAP 99.34 ETS 115.10 ZAE 83.25 ETE 195.26 ZAC 66.43 ETC 223.40 CLP 145.08

PLANETOCENTRIC CONIC

C3 233.123 VHL 15.268 DLA -44.38 RAL 57.98 RAD 6571.4 VEL 18.827 PTH 3.07 VHP 19.035 DPA 54.72 RAP 285.40 ECC 4.8366
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.28 6 52 2 2128.78 5.74 51.26 322.07 134.09 7 27 30 1528.8 11.27 45.83
 125.72 14 23 40 738.94 5.76 303.87 322.08 134.08 14 35 59 138.9 11.28 298.43
 54.28 6 52 2 2128.78 5.74 51.26 322.07 134.09 7 27 30 1528.8 11.27 45.83
 125.72 14 23 40 738.94 5.76 303.87 322.08 134.08 14 35 59 138.9 11.28 298.43
 54.28 6 52 2 2128.78 5.74 51.26 322.07 134.09 7 27 30 1528.8 11.27 45.83
 125.72 14 23 40 738.94 5.76 303.87 322.08 134.08 14 35 59 138.9 11.28 298.43

DIFFERENTIAL CORRECTIONS

TDE-5.1297 TRA 2.0602 TC3 -.0548 BAU .1800
 ROE-6.3048 RRA .8500 RC3 .0182 FAU .00137
 FDE-1.6882 FRA .6116 FC3 -.0051 BSP 10204
 BDE 8.1280 BRA 2.2287 BC3 .0577 FSP -194

MID-COURSE EXECUTION ACCURACY

SGT 2214.4 SGR 2408.3 SG3 61.4
 RRT .9428 RRF .9593 RTF .9976
 SGB 3271.6 R23 -.1280 R13 .9910
 SG1 3224.8 SG2 551.4 THA 47.55

ORBIT DETERMINATION ACCURACY

ST 1952.1 SR 2369.7 SS 1053.8
 CRT .9939 CRS -.9955 CST -.9999
 LSA 3241.4 MSA 173.7 SSA 1.3
 EL1 3065.7 EL2 166.4 ALF 50.55

LAUNCH DATE MAR 1 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 370.183
 RL 148.24 LAL -.00 LOL 160.24 VL 27.796 GAL -7.03 AZL 140.35 HCA 175.64 SMA 130.37 ECC .18292 INC50.3463 V1 30.058
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.684 GAP 4.60 AZP 39.74 TAL 214.95 TAP 30.59 RCA 106.53 APO 154.22 V2 34.808
 RC 125.948 GL -58.49 GP 68.45 ZAL 98.82 ZAP 95.73 ETS 156.32 ZAE 68.82 ETE 233.68 ZAC 54.24 ETC 263.62 CLP 105.78

PLANETOCENTRIC CONIC

C3 620.739 VHL 24.915 DLA -38.00 RAL 66.57 RAD 6572.6 VEL 27.240 PTH 3.40 VHP 31.295 DPA 44.36 RAP 270.82 ECC11.2158
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.52 8 6 57 2115.97 .86 45.91 335.45 127.99 8 42 13 1516.0 5.77 40.00
 116.48 14 17 17 952.02 .88 317.95 335.46 127.99 14 33 9 352.0 5.79 312.04
 63.52 8 6 57 2115.97 .86 45.91 335.45 127.99 8 42 13 1516.0 5.77 40.00
 116.48 14 17 17 952.02 .88 317.95 335.46 127.99 14 33 9 352.0 5.79 312.04
 63.52 8 6 57 2115.97 .86 45.91 335.45 127.99 8 42 13 1516.0 5.77 40.00
 116.48 14 17 17 952.02 .88 317.95 335.46 127.99 14 33 9 352.0 5.79 312.04

DIFFERENTIAL CORRECTIONS

TDE 1.0781 TRA 1.8691 TC3 -.0239 BAU 1.3401
 RO-11.5626 RRA 4.9179 RC3 .1597 FAU-.02013
 FDE-2.0994 FRA 1.1144 FC3 .0281 BSP 10082
 BDE11.6127 BRA 5.2611 BC3 .1615 FSP -168

MID-COURSE EXECUTION ACCURACY

SGT 610.9 SGR 3124.7 SG3 51.7
 RRT .0152 RRF .9953 RTF .1123
 SGB 3183.8 R23 -.0966 R13 .9953
 SG1 3124.7 SGT 610.8 THA 89.82

ORBIT DETERMINATION ACCURACY

ST 297.1 SR 2693.8 SS 1331.9
 CRT -.7358 CRS -.9992 CST .7090
 LSA 3012.5 MSA 207.6 SSA .4
 EL1 2702.7 EL2 200.5 ALF 94.67

LAUNCH DATE MAR 1 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 380.845
 RL 148.24 LAL -.00 LOL 160.24 VL 27.739 GAL -7.76 AZL 6.54 HCA 183.40 SMA 129.97 ECC .19398 INC83.4555 V1 30.058
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.648 GAP 6.16 AZP 173.44 TAL 216.36 TAP 39.76 RCA 104.76 APO 155.18 V2 34.815
 RC 128.306 GL 45.07 GP -50.53 ZAL 96.20 ZAP 94.96 ETS 180.70 ZAE 54.77 ETE 107.50 ZAC 65.04 ETC 77.22 CLP 97.81

PLANETOCENTRIC CONIC

C31487.793 VHL 38.572 DLA 63.67 RAL 40.41 RAD 6573.2 VEL 40.113 PTH 3.56 VHP 48.139 DPA -72.12 RAP 235.96 ECC25.4853
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.25 16 28 30 5072.68 1.30 243.44 311.06 26.33 17 53 3 4472.7 -5.87 240.30
 149.75 2 27 0 3367.57 1.31 101.50 311.04 26.33 3 23 8 2767.6 -5.86 98.36
 30.25 16 28 30 5072.68 1.30 243.44 311.06 26.33 17 53 3 4472.7 -5.87 240.30
 149.75 2 27 0 3367.57 1.31 101.50 311.04 26.33 3 23 8 2767.6 -5.86 98.36
 30.25 16 28 30 5072.68 1.30 243.44 311.06 26.33 17 53 3 4472.7 -5.87 240.30
 149.75 2 27 0 3367.57 1.31 101.50 311.04 26.33 3 23 8 2767.6 -5.86 98.36

DIFFERENTIAL CORRECTIONS

TDE-4.8826 TRA 1.4895 TC3 -.0953 BAU 4.0361
 RO-14.8620 RRA -.1625 RC3 -.1791 FAU-.06492
 FDE 3.2606 FRA .0630 FC3 .0378 BSP 8660
 BDE15.6435 BRA 1.4983 BC3 .0209 FSP -159

MID-COURSE EXECUTION ACCURACY

SGT 1147.0 SGR 2605.1 SG3 48.9
 RRT .8668 RRF -.9997 RTF -.8555
 SGB 2846.4 R23 -.0979 R13 -.9952
 SG1 2796.1 SGT 532.8 THA 68.28

ORBIT DETERMINATION ACCURACY

ST 740.9 SR 2208.1 SS 2015.0
 CRT .9778 CRS 1.0000 CST .9766
 LSA 3075.9 MSA 152.9 SSA .8
 EL1 2324.4 EL2 147.5 ALF 71.76

LAUNCH DATE MAR 1 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 385.095
 RL 148.24 LAL -.00 LOL 160.24 VL 27.682 GAL -7.17 AZL 46.35 HCA 184.92 SMA 129.57 ECC .18973 INC43.6527 V1 30.058
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.613 GAP 5.92 AZP 133.55 TAL 213.95 TAP 38.86 RCA 104.99 APO 154.15 V2 34.821
 RC 130.653 GL 60.12 GP -71.45 ZAL 100.21 ZAP 98.50 ETS 196.12 ZAE 77.72 ETE 120.18 ZAC 86.37 ETC 95.29 CLP 117.70

PLANETOCENTRIC CONIC

C3 478.149 VHL 21.867 DLA 71.08 RAL .37 RAD 6572.3 VEL 24.484 PTH 3.33 VHP 27.110 DPA -83.90 RAP 85.33 ECC 8.8691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 21.61 13 29 34 5037.95 -2.63 246.86 269.48 18.94 14 53 32 4437.9 -10.19 244.65
 158.39 0 6 32 3278.17 -2.62 95.50 269.46 18.94 1 1 10 2678.2 -10.18 93.29
 21.61 13 29 34 5037.95 -2.63 246.86 269.48 18.94 14 53 32 4437.9 -10.19 244.65
 158.39 0 6 32 3278.17 -2.62 95.50 269.46 18.94 1 1 10 2678.2 -10.18 93.29
 21.61 13 29 34 5037.95 -2.63 246.86 269.48 18.94 14 53 32 4437.9 -10.19 244.65
 158.39 0 6 32 3278.17 -2.62 95.50 269.46 18.94 1 1 10 2678.2 -10.18 93.29

DIFFERENTIAL CORRECTIONS

TDE 1.4906 TRA .6397 TC3 -.0365 BAU .9612
 RDE-8.6549 RRA 3.0575 RC3 -.1459 FAU-.01082
 FDE 1.7751 FRA -.5331 FC3 .0196 BSP 10795
 BDE 8.7824 BRA 3.1236 BC3 .1504 FSP -180

MID-COURSE EXECUTION ACCURACY

SGT 667.3 SGR 3413.9 SG3 55.3
 RRT .2166 RRF -.9954 RTF -.1282
 SGB 3478.5 R23 -.0978 R13 -.9946
 SG1 3417.1 SGT 650.9 THA 87.48

ORBIT DETERMINATION ACCURACY

ST 420.3 SR 2385.9 SS 1130.8
 CRT -.7686 CRS .9990 CST -.7966
 LSA 2660.1 MSA 268.1 SSA 1.5
 EL1 2408.0 EL2 266.4 ALF 97.81

LAUNCH DATE MAR 1 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 390.461
 RL 148.24 LAL -.00 LOL 160.24 VL 27.625 GAL -6.80 AZL 63.17 HCA 187.54 SMA 129.17 ECC .18840 INC26.8271 V1 30.058
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.577 GAP 6.00 AZP 116.63 TAL 212.13 TAP 39.67 RCA 104.83 APO 153.51 V2 34.829
 RC 132.989 GL 61.62 GP -75.59 ZAL 105.21 ZAP 103.58 ETS 244.41 ZAE 90.36 ETE 167.46 ZAC 97.21 ETC 144.17 CLP 160.61

PLANETOCENTRIC CONIC

C3 197.976 VHL 14.070 DLA 66.97 RAL 346.81 RAD 6571.1 VEL 17.869 PTH 3.00 VHP 17.314 DPA -71.35 RAP 61.22 ECC 4.2582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.39 12 45 52 4919.83 -9.09 241.76 252.93 23.34 14 7 51 4319.8 -16.42 238.88
 153.61 22 58 8 3187.46 -9.08 95.48 252.90 23.34 23 51 15 2587.5 -16.41 92.61
 26.39 12 45 52 4919.83 -9.09 241.76 252.93 23.34 14 7 51 4319.8 -16.42 238.88
 153.61 22 58 8 3187.46 -9.08 95.48 252.90 23.34 23 51 15 2587.5 -16.41 92.61
 26.39 12 45 52 4919.83 -9.09 241.76 252.93 23.34 14 7 51 4319.8 -16.42 238.88
 153.61 22 58 8 3187.46 -9.08 95.48 252.90 23.34 23 51 15 2587.5 -16.41 92.61

DIFFERENTIAL CORRECTIONS

TDE 3.5878 TRA-2.0957 TC3 -.0721 BAU .1930
 RDE-1.8372 RRA 2.3932 RC3 .0109 FAU .00817
 FDE 1.0485 FRA -.6265 FC3 -.0357 BSP 11498
 BDE 4.0308 BRA 3.1811 BC3 .0729 FSP -220

MID-COURSE EXECUTION ACCURACY

SGT 2633.1 SGR 2601.0 SG3 67.9
 RRT -.9538 RRF -.9524 RTF .9986
 SGB 3701.1 R23 -.1503 R13 -.9873
 SG1 3658.2 SGT 562.4 THA 135.37

ORBIT DETERMINATION ACCURACY

ST 1600.9 SR 1057.4 SS 702.5
 CRT -.9346 CRS .9376 CST-1.0000
 LSA 2017.1 MSA 324.9 SSA 1.7
 EL1 1892.0 EL2 318.3 ALF 147.27

LAUNCH DATE MAR 1 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 396.128

RL 148.24 LAL -1.00 LOL 160.24 VL 27.568 GAL -6.49 AZL 71.02 MCA 190.47 SMA 128.77 ECC .18793 INC18.9774 V1 30.058
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.543 GAP 6.15 AZP 108.68 TAL 210.46 TAP 40.93 RCA 104.57 APO 152.97 V2 34.837
 RC 135.313 GL 58.52 GP -70.84 ZAL 109.79 ZAP 109.03 ETS 279.10 ZAE 98.57 ETE 200.81 ZAC 103.83 ETC 178.64 CLP-173.49

PLANETOCENTRIC CONIC

C3 109.086 VHL 10.444 CLA 62.34 RAL 347.43 RAD 6570.1 VEL 15.180 PTH 2.73 VHP 12.802 DPA -62.25 RAP 54.15 ECC 2.7953
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.82 13 0 54 4791.55 -15.24 234.83 249.23 28.76 14 20 45 4191.5 -22.21 231.10
 148.18 22 47 59 3098.95 -15.23 94.71 249.21 28.75 23 39 38 2498.9 -22.21 90.98
 31.82 13 0 54 4791.55 -15.24 234.83 249.23 28.76 14 20 45 4191.5 -22.21 231.10
 148.18 22 47 59 3098.95 -15.23 94.71 249.21 28.75 23 39 38 2498.9 -22.21 90.98
 31.82 13 0 54 4791.55 -15.24 234.83 249.23 28.76 14 20 45 4191.5 -22.21 231.10
 148.18 22 47 59 3098.95 -15.23 94.71 249.21 28.75 23 39 38 2498.9 -22.21 90.98

DIFFERENTIAL CORRECTIONS

TDE 2.7462 TRA-2.8372 TC3 -.3727 BAU .5437
 RDE .3018 RRA .6333 RC3 .0095 FAU .01858
 FDE .9365 FRA -.6558 FC3 -.1474 BSP 12033
 BDE 2.7627 BRA 2.9070 BC3 .3728 FSP -278

MID-COURSE EXECUTION ACCURACY

SGT 3757.6 SGR 766.8 SG3 84.6
 RRT -.7898 RRF -.6672 RTF .9815
 SGB 3835.1 R23 -.1956 R13 -.9778
 SG1 3806.9 SG2 464.2 THA 170.70

ORBIT DETERMINATION ACCURACY

ST 1811.6 SR 279.0 SS 623.8
 CRT .0465 CRS -.2087 CST -.9866
 LSA 1913.7 MSA 294.6 SSA 2.2
 EL1 1811.7 EL2 278.7 ALF .42

LAUNCH DATE MAR 1 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 401.894

RL 148.24 LAL -1.00 LOL 160.24 VL 27.510 GAL -6.19 AZL 75.42 MCA 193.51 SMA 128.38 ECC .18781 INC14.5757 V1 30.058
 RP 108.75 LAP -3.37 LOP 353.32 VP 37.509 GAP 6.34 AZP 104.19 TAL 208.84 TAP 42.35 RCA 104.27 APO 152.49 V2 34.846
 RC 137.625 GL 54.37 GP -64.54 ZAL 113.58 ZAP 114.41 ETS 291.05 ZAE 104.74 ETE 210.87 ZAC 108.77 ETC 189.79 CLP-164.03

PLANETOCENTRIC CONIC

C3 71.699 VHL 8.468 CLA 58.26 RAL 351.04 RAD 6569.4 VEL 13.894 PTH 2.54 VHP 10.406 DPA -54.66 RAP 50.02 ECC 2.1800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.69 13 27 35 4675.99 -19.92 227.50 248.11 34.02 14 45 31 4076.0 -26.47 222.93
 143.31 22 50 9 3028.17 -19.90 93.33 248.08 34.02 23 40 37 2428.2 -26.46 88.76
 36.69 13 27 35 4675.99 -19.92 227.50 248.11 34.02 14 45 31 4076.0 -26.47 222.93
 143.31 22 50 9 3028.17 -19.90 93.33 248.08 34.02 23 40 37 2428.2 -26.46 88.76
 36.69 13 27 35 4675.99 -19.92 227.50 248.11 34.02 14 45 31 4076.0 -26.47 222.93
 143.31 22 50 9 3028.17 -19.90 93.33 248.08 34.02 23 40 37 2428.2 -26.46 88.76

DIFFERENTIAL CORRECTIONS

TDE 2.1688 TRA-2.6465 TC3 -.7363 BAU .7097
 RDE .6160 RRA .0842 RC3 -.0784 FAU .02653
 FDE .9398 FRA -.6619 FC3 -.3203 BSP 12319
 BDE 2.2546 BRA 2.6478 BC3 .7404 FSP -338

MID-COURSE EXECUTION ACCURACY

SGT 3911.1 SGR 450.6 SG3 103.1
 RRT .2317 RRF .4553 RTF .9667
 SGB 3937.0 R23 .2350 R13 .9668
 SG1 3912.5 SG2 438.2 THA 1.55

ORBIT DETERMINATION ACCURACY

ST 1788.3 SR 418.1 SS 616.3
 CRT .1739 CRS -.8961 CST -.9746
 LSA 1916.1 MSA 285.0 SSA 3.1
 EL1 1818.0 EL2 260.4 ALF 10.47

LAUNCH DATE MAR 1 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 407.700

RL 148.24 LAL -1.00 LOL 160.24 VL 27.452 GAL -5.89 AZL 78.22 MCA 196.50 SMA 127.99 ECC .18792 INC11.7761 V1 30.058
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.475 GAP 6.54 AZP 101.30 TAL 207.22 TAP 43.82 RCA 103.93 APO 152.04 V2 34.855
 RC 139.923 GL 50.22 GP -58.47 ZAL 116.54 ZAP 119.52 ETS 296.16 ZAE 109.55 ETE 211.63 ZAC 112.85 ETC 193.70 CLP-160.42

PLANETOCENTRIC CONIC

C3 52.593 VHL 7.252 CLA 54.73 RAL 355.15 RAD 6568.9 VEL 13.189 PTH 2.41 VHP 9.002 DPA -47.98 RAP 47.44 ECC 1.8656
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.99 13 55 39 4577.15 -23.10 220.37 247.61 38.89 15 11 56 3977.1 -29.22 215.05
 139.01 22 54 51 2976.90 -23.09 91.87 247.59 38.88 23 44 28 2376.9 -29.21 86.55
 40.99 13 55 39 4577.15 -23.10 220.37 247.61 38.89 15 11 56 3977.1 -29.22 215.05
 139.01 22 54 51 2976.90 -23.09 91.87 247.59 38.88 23 44 28 2376.9 -29.21 86.55
 40.99 13 55 39 4577.15 -23.10 220.37 247.61 38.89 15 11 56 3977.1 -29.22 215.05
 139.01 22 54 51 2976.90 -23.09 91.87 247.59 38.88 23 44 28 2376.9 -29.21 86.55

DIFFERENTIAL CORRECTIONS

TDE 1.8619 TRA-2.4362 TC3 -1.1316 BAU .8040
 RDE .6177 RRA -.0677 RC3 -.1643 FAU .03318
 FDE .9493 FRA -.6473 FC3 -.5462 BSP 12659
 BDE 1.9617 BRA 2.4371 BC3 1.1434 FSP -401

MID-COURSE EXECUTION ACCURACY

SGT 3996.0 SGR 550.9 SG3 121.4
 RRT .6440 RRF .8227 RTF .9538
 SGB 4033.8 R23 .2634 R13 .9563
 SG1 4011.9 SG2 419.8 THA 5.13

ORBIT DETERMINATION ACCURACY

ST 1779.4 SR 488.9 SS 619.1
 CRT .8576 CRS -.9600 CST -.9673
 LSA 1926.5 MSA 277.3 SSA 3.9
 EL1 1829.0 EL2 244.6 ALF 13.50

LAUNCH DATE MAR 1 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 413.522

RL 148.24 LAL -1.00 LOL 160.24 VL 27.395 GAL -5.59 AZL 80.16 MCA 199.71 SMA 127.60 ECC .18820 INC 9.8369 V1 30.058
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.442 GAP 6.74 AZP 99.27 TAL 205.60 TAP 45.32 RCA 103.58 APO 151.61 V2 34.865
 RC 142.207 GL 46.35 GP -52.97 ZAL 118.71 ZAP 124.23 ETS 298.98 ZAE 113.61 ETE 213.79 ZAC 116.40 ETC 195.07 CLP-159.07

PLANETOCENTRIC CONIC

C3 41.441 VHL 6.437 CLA 51.70 RAL 359.18 RAD 6568.6 VEL 12.760 PTH 2.32 VHP 8.128 DPA -42.02 RAP 45.90 ECC 1.6820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.75 14 22 48 4492.99 -25.15 213.74 247.43 43.21 15 37 41 3893.0 -30.84 207.79
 135.25 22 59 50 2941.64 -25.14 90.60 247.42 43.20 23 48 52 2341.6 -30.83 84.65
 44.75 14 22 48 4492.99 -25.15 213.74 247.43 43.21 15 37 41 3893.0 -30.84 207.79
 135.25 22 59 50 2941.64 -25.14 90.60 247.42 43.20 23 48 52 2341.6 -30.83 84.65
 44.75 14 22 48 4492.99 -25.15 213.74 247.43 43.21 15 37 41 3893.0 -30.84 207.79
 135.25 22 59 50 2941.64 -25.14 90.60 247.42 43.20 23 48 52 2341.6 -30.83 84.65

DIFFERENTIAL CORRECTIONS

TDE 1.6693 TRA-2.2569 TC3 -1.5454 BAU .8658
 RDE .5639 RRA -.1056 RC3 -.2326 FAU .03859
 FDE .9431 FRA -.6116 FC3 -.8062 BSP 12996
 BDE 1.7619 BRA 2.2594 BC3 1.5628 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 4083.2 SGR 603.8 SG3 138.1
 RRT .7435 RRF .8968 RTF .9440
 SGB 4127.6 R23 .2813 R13 .9471
 SG1 4108.0 SG2 401.4 THA 6.33

ORBIT DETERMINATION ACCURACY

ST 1776.6 SR 504.0 SS 618.2
 CRT .8827 CRS -.9771 CST -.9624
 LSA 1928.7 MSA 269.7 SSA 4.9
 EL1 1832.4 EL2 229.7 ALF 14.29

LAUNCH DATE MAR 1 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 419.349

RL 148.24 LAL -.00 LOL 160.24 VL 27.338 GAL -5.29 AZL 81.59 HCA 202.85 SMA 127.21 ECC .18862 INC 8.4098 V1 30.058
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.409 GAP 6.95 AZP 97.76 TAL 203.97 TAP 46.82 RCA 103.22 APO 151.21 V2 34.875
 RC 144.478 GL 42.84 GP -48.08 ZAL 120.17 ZAP 128.51 ETS 300.86 ZAE 116.81 ETE 212.85 ZAC 119.58 ETC 195.36 CLP-158.75

PLANETOCENTRIC CONIC

C3 34.279 VHL 5.855 DLA 49.13 RAL 3.03 RAD 6568.4 VEL 12.476 PTH 2.26 VHP 7.565 DPA -36.69 RAP 45.08 ECC 1.5641
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.02 14 48 37 4420.55 -26.42 207.72 247.58 46.95 16 2 17 3820.5 -31.72 201.27
 131.98 23 4 46 2918.22 -26.41 89.60 247.56 46.94 23 53 24 2318.2 -31.71 83.16
 48.02 14 48 37 4420.55 -26.42 207.72 247.58 46.95 16 2 17 3820.5 -31.72 201.27
 131.98 23 4 46 2918.22 -26.41 89.60 247.56 46.94 23 53 24 2318.2 -31.71 83.16
 48.02 14 48 37 4420.55 -26.42 207.72 247.58 46.95 16 2 17 3820.5 -31.72 201.27
 131.98 23 4 46 2918.22 -26.41 89.60 247.56 46.94 23 53 24 2318.2 -31.71 83.16

DIFFERENTIAL CORRECTIONS

TDE 1.5276 TRA-2.1055 TC3-1.9763 BAU .9150
 RDE .5046 RRA -.1078 RC3 -.2835 FAU .04292
 FDE .9165 FRA -.5614 FC3-1.0840 BSP 13467
 BDE 1.6088 BRA 2.1082 BC3 1.9965 FSP -517

MID-COURSE EXECUTION ACCURACY

SGT 4183.8 SGR 616.5 SG3 152.6
 RRT .7809 RRF .9180 RTF .9366
 SGB 4229.0 R23 .2888 R13 .9397
 SG1 4211.6 S62 382.6 THA 6.62

ORBIT DETERMINATION ACCURACY

ST 1769.7 SR 496.3 SS 609.4
 CRT .8934 CRS -.9843 CST -.9584
 LSA 1918.5 MSA 262.3 SSA 6.1
 EL1 1825.2 EL2 216.2 ALF 14.27

LAUNCH DATE MAR 1 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 425.180

RL 148.24 LAL -.00 LOL 160.24 VL 27.280 GAL -4.98 AZL 82.69 HCA 205.99 SMA 126.83 ECC .18918 INC 7.3108 V1 30.058
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.378 GAP 7.15 AZP 96.58 TAL 202.33 TAP 48.32 RCA 102.84 APO 150.83 V2 34.885
 RC 146.734 GL 39.68 GP -43.79 ZAL 120.99 ZAP 132.35 ETS 302.28 ZAE 119.39 ETE 211.42 ZAC 122.51 ETC 195.16 CLP-158.95

PLANETOCENTRIC CONIC

C3 29.336 VHL 5.416 DLA 46.94 RAL 6.74 RAD 6568.2 VEL 12.276 PTH 2.21 VHP 7.197 DPA -31.94 RAP 44.81 ECC 1.4828
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.85 15 13 6 4357.49 -27.20 202.33 248.06 50.14 16 25 43 3757.5 -32.14 195.50
 129.15 23 9 51 2902.97 -27.18 88.88 248.05 50.13 23 58 14 2303.0 -32.12 82.05
 50.85 15 13 6 4357.49 -27.20 202.33 248.06 50.14 16 25 43 3757.5 -32.14 195.50
 129.15 23 9 51 2902.97 -27.18 88.88 248.05 50.13 23 58 14 2303.0 -32.12 82.05
 50.85 15 13 6 4357.49 -27.20 202.33 248.06 50.14 16 25 43 3757.5 -32.14 195.50
 129.15 23 9 51 2902.97 -27.18 88.88 248.05 50.13 23 58 14 2303.0 -32.12 82.05

DIFFERENTIAL CORRECTIONS

TDE 1.4544 TRA-1.9335 TC3-2.3692 BAU .9367
 RDE .4634 RRA -.0864 RC3 -.3026 FAU .04480
 FDE .9032 FRA -.4705 FC3-1.3219 BSP 13108
 BDE 1.5264 BRA 1.9354 BC3 2.3884 FSP -511

MID-COURSE EXECUTION ACCURACY

SGT 4234.2 SGR 604.8 SG3 161.5
 RRT .7798 RRF .9159 RTF .9259
 SGB 4277.2 R23 .3005 R13 .9289
 SG1 4260.6 S62 376.2 THA 6.41

ORBIT DETERMINATION ACCURACY

ST 1783.5 SR 492.0 SS 610.1
 CRT .9016 CRS -.9895 CST -.9543
 LSA 1930.7 MSA 259.7 SSA 7.2
 EL1 1838.5 EL2 206.4 ALF 14.15

LAUNCH DATE MAR 1 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 431.004

RL 148.24 LAL -.00 LOL 160.24 VL 27.224 GAL -4.66 AZL 83.57 HCA 209.15 SMA 126.46 ECC .18989 INC 6.4341 V1 30.058
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.347 GAP 7.36 AZP 95.62 TAL 200.67 TAP 49.82 RCA 102.45 APO 150.47 V2 34.897
 RC 148.977 GL 36.82 GP -40.03 ZAL 121.27 ZAP 135.80 ETS 303.41 ZAE 121.47 ETE 209.79 ZAC 125.24 ETC 194.72 CLP-159.44

PLANETOCENTRIC CONIC

C3 25.739 VHL 5.073 DLA 45.09 RAL 10.34 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 6.958 DPA -27.68 RAP 44.95 ECC 1.4236
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.32 15 36 30 4301.88 -27.65 197.52 248.88 52.84 16 48 11 3701.9 -32.27 190.40
 126.68 23 15 13 2893.47 -27.63 88.40 248.87 52.83 24 3 27 2293.5 -32.26 81.28
 53.32 15 36 30 4301.88 -27.65 197.52 248.88 52.84 16 48 11 3701.9 -32.27 190.40
 126.68 23 15 13 2893.47 -27.63 88.40 248.87 52.83 24 3 27 2293.5 -32.26 81.28
 53.32 15 36 30 4301.88 -27.65 197.52 248.88 52.84 16 48 11 3701.9 -32.27 190.40
 126.68 23 15 13 2893.47 -27.63 88.40 248.87 52.83 24 3 27 2293.5 -32.26 81.28

DIFFERENTIAL CORRECTIONS

TDE 1.3694 TRA-1.8029 TC3-2.8078 BAU .9726
 RDE .4204 RRA -.0746 RC3 -.3245 FAU .04692
 FDE .8550 FRA -.3993 FC3-1.5782 BSP 13608
 BDE 1.4324 BRA 1.8045 BC3 2.8264 FSP -552

MID-COURSE EXECUTION ACCURACY

SGT 4338.9 SGR 590.0 SG3 170.7
 RRT .7878 RRF .9109 RTF .9211
 SGB 4378.8 R23 .2925 R13 .9238
 SG1 4363.9 S62 361.3 THA 6.16

ORBIT DETERMINATION ACCURACY

ST 1774.1 SR 476.2 SS 592.6
 CRT .9067 CRS -.9924 CST -.9512
 LSA 1913.5 MSA 252.4 SSA 8.6
 EL1 1826.5 EL2 195.1 ALF 13.84

LAUNCH DATE MAR 1 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 436.823

RL 148.24 LAL -.00 LOL 160.24 VL 27.167 GAL -4.33 AZL 84.29 HCA 212.31 SMA 126.09 ECC .19073 INC 5.7149 V1 30.058
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.316 GAP 7.58 AZP 94.83 TAL 199.00 TAP 51.31 RCA 102.04 APO 150.14 V2 34.908
 RC 151.204 GL 34.22 GP -36.75 ZAL 121.05 ZAP 138.88 ETS 304.33 ZAE 123.15 ETE 208.13 ZAC 127.83 ETC 194.19 CLP-160.09

PLANETOCENTRIC CONIC

C3 23.005 VHL 4.796 DLA 43.52 RAL 13.91 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 6.808 DPA -23.87 RAP 45.42 ECC 1.3786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.46 15 59 1 4252.37 -27.90 193.23 250.03 55.14 17 9 53 3652.4 -32.26 185.88
 124.54 23 21 7 2887.84 -27.89 88.09 250.02 55.13 24 9 15 2287.8 -32.24 80.75
 55.46 15 59 1 4252.37 -27.90 193.23 250.03 55.14 17 9 53 3652.4 -32.26 185.88
 124.54 23 21 7 2887.84 -27.89 88.09 250.02 55.13 24 9 15 2287.8 -32.24 80.75
 55.46 15 59 1 4252.37 -27.90 193.23 250.03 55.14 17 9 53 3652.4 -32.26 185.88
 124.54 23 21 7 2887.84 -27.89 88.09 250.02 55.13 24 9 15 2287.8 -32.24 80.75

DIFFERENTIAL CORRECTIONS

TDE 1.3063 TRA-1.6694 TC3-3.2415 BAU 1.0022
 RDE .3875 RRA -.0612 RC3 -.3349 FAU .04798
 FDE .8061 FRA -.3193 FC3-1.8057 BSP 13984
 BDE 1.3626 BRA 1.6706 BC3 3.2588 FSP -578

MID-COURSE EXECUTION ACCURACY

SGT 4434.8 SGR 572.4 SG3 177.2
 RRT .7873 RRF .8991 RTF .9166
 SGB 4471.5 R23 .2804 R13 .9189
 SG1 4457.7 S62 351.1 THA 5.84

ORBIT DETERMINATION ACCURACY

ST 1767.6 SR 464.0 SS 574.7
 CRT .9123 CRS -.9948 CST -.9481
 LSA 1899.9 MSA 245.5 SSA 10.1
 EL1 1818.1 EL2 184.8 ALF 13.61

LAUNCH DATE MAR 1 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 442.636

RL 148.24 LAL -.00 LOL 160.24 VL 27.111 GAL -4.00 AZL 84.89 HCA 215.48 SMA 125.73 ECC .19172 INC 5.1109 VI 30.058
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.286 GAP 7.79 AZP 94.17 TAL 197.32 TAP 52.79 RCA 101.62 APO 149.83 V2 34.920
 RC 153.416 GL 31.84 GP -33.88 ZAL 120.39 ZAP 141.64 ETS 305.09 ZAE 124.50 ETE 206.50 ZAC 130.33 ETC 193.61 CLP-160.83

PLANETOCENTRIC CONIC

C3 20.860 VHL 4.567 DLA 42.18 RAL 17.47 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 6.720 DPA -20.44 RAP 46.15 ECC 1.3433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.33 16 20 55 4208.04 -28.03 189.39 251.50 57.09 17 31 3 3608.0 -32.15 181.88
 122.67 23 27 40 2884.89 -28.02 87.93 251.49 57.08 24 15 45 2284.9 -32.14 80.42
 57.33 16 20 55 4208.04 -28.03 189.39 251.50 57.09 17 31 3 3608.0 -32.15 181.88
 122.67 23 27 40 2884.89 -28.02 87.93 251.49 57.08 24 15 45 2284.9 -32.14 80.42
 57.33 16 20 55 4208.04 -28.03 189.39 251.50 57.09 17 31 3 3608.0 -32.15 181.88
 122.67 23 27 40 2884.89 -28.02 87.93 251.49 57.08 24 15 45 2284.9 -32.14 80.42

DIFFERENTIAL CORRECTIONS

TDE 1.2591 TRA-1.5325 TC3-3.6708 BAU 1.0280
 RDE .3625 RRA -.0480 RC3 -.3377 FAU .04823
 FDE .7576 FRA -.2351 FC3-2.0015 BSP 14278
 BOE 1.3103 BRA 1.5332 BC3 3.6863 FSP -591

MID-COURSE EXECUTION ACCURACY

SGT 4524.2 SGR 555.5 SG3 181.3
 RRT .7813 RRF .8823 RTF .9125
 SGB 4558.2 R23 .2645 R13 .9145
 SG1 4545.1 SG2 345.1 THA 5.51

ORBIT DETERMINATION ACCURACY

ST 1763.8 SR 455.5 SS 557.0
 CRT .9189 CRS -.9968 CST -.9453
 LSA 1889.9 MSA 238.5 SSA 11.7
 EL1 1813.2 EL2 174.8 ALF 13.48

LAUNCH DATE MAR 1 1969

FLIGHT TIME 152.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 448.441

RL 148.24 LAL -.00 LOL 160.24 VL 27.055 GAL -3.65 AZL 85.41 HCA 218.65 SMA 125.37 ECC .19286 INC 4.5936 VI 30.058
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.257 GAP 8.01 AZP 93.59 TAL 195.62 TAP 54.27 RCA 101.19 APO 149.54 V2 34.932
 RC 155.612 GL 29.62 GP -31.37 ZAL 119.34 ZAP 144.12 ETS 305.70 ZAE 125.60 ETE 204.97 ZAC 132.75 ETC 193.04 CLP-161.62

PLANETOCENTRIC CONIC

C3 19.138 VHL 4.375 DLA 41.03 RAL 21.08 RAD 6567.8 VEL 11.854 PTH 2.10 VHP 6.678 DPA -17.35 RAP 47.10 ECC 1.3150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.97 16 42 22 4168.08 -28.08 185.96 253.27 58.77 17 51 50 3568.1 -31.99 178.31
 121.03 23 35 0 2883.83 -28.07 87.87 253.26 58.76 24 23 4 2283.8 -31.98 80.23
 58.97 16 42 22 4168.08 -28.08 185.96 253.27 58.77 17 51 50 3568.1 -31.99 178.31
 121.03 23 35 0 2883.83 -28.07 87.87 253.26 58.76 24 23 4 2283.8 -31.98 80.23
 58.97 16 42 22 4168.08 -28.08 185.96 253.27 58.77 17 51 50 3568.1 -31.99 178.31
 121.03 23 35 0 2883.83 -28.07 87.87 253.26 58.76 24 23 4 2283.8 -31.98 80.23

DIFFERENTIAL CORRECTIONS

TDE 1.2217 TRA-1.3930 TC3-4.0983 BAU 1.0521
 RDE .3431 RRA -.0363 RC3 -.3366 FAU .04793
 FDE .7087 FRA -.1514 FC3-2.1681 BSP 14568
 BOE 1.2689 BRA 1.3935 BC3 4.1121 FSP -599

MID-COURSE EXECUTION ACCURACY

SGT 4611.6 SGR 541.0 SG3 183.9
 RRT .7726 RRF .8619 RTF .9092
 SGB 4643.2 R23 .2452 R13 .9108
 SG1 4630.6 SG2 342.1 THA 5.21

ORBIT DETERMINATION ACCURACY

ST 1760.1 SR 449.9 SS 538.5
 CRT .9266 CRS -.9982 CST -.9426
 LSA 1880.7 MSA 230.8 SSA 13.4
 EL1 1809.3 EL2 164.6 ALF 13.44

LAUNCH DATE MAR 1 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 454.238

RL 148.24 LAL -.00 LOL 160.24 VL 27.000 GAL -3.29 AZL 85.86 HCA 221.82 SMA 125.01 ECC .19416 INC 4.1430 VI 30.058
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.229 GAP 8.23 AZP 93.09 TAL 193.91 TAP 55.74 RCA 100.74 APO 149.28 V2 34.945
 RC 157.792 GL 27.55 GP -29.17 ZAL 117.93 ZAP 146.35 ETS 306.16 ZAE 126.49 ETE 203.54 ZAC 135.14 ETC 192.49 CLP-162.44

PLANETOCENTRIC CONIC

C3 17.732 VHL 4.211 DLA 40.03 RAL 24.76 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 6.672 DPA -14.55 RAP 48.23 ECC 1.2918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.44 17 3 37 4131.83 -28.08 182.86 255.35 60.21 18 12 28 3531.8 -31.81 175.11
 119.56 23 43 8 2884.31 -28.06 87.91 255.34 60.20 24 31 12 2284.3 -31.80 80.16
 60.44 17 3 37 4131.83 -28.08 182.86 255.35 60.21 18 12 28 3531.8 -31.81 175.11
 119.56 23 43 8 2884.31 -28.06 87.91 255.34 60.20 24 31 12 2284.3 -31.80 80.16
 60.44 17 3 37 4131.83 -28.08 182.86 255.35 60.21 18 12 28 3531.8 -31.81 175.11
 119.56 23 43 8 2884.31 -28.06 87.91 255.34 60.20 24 31 12 2284.3 -31.80 80.16

DIFFERENTIAL CORRECTIONS

TDE 1.1909 TRA-1.2497 TC3-4.5226 BAU 1.0750
 RDE .3283 RRA -.0257 RC3 -.3335 FAU .04722
 FDE .6603 FRA -.0697 FC3-2.3057 BSP 14865
 BOE 1.2353 BRA 1.2500 BC3 4.5349 FSP -604

MID-COURSE EXECUTION ACCURACY

SGT 4697.2 SGR 529.6 SG3 185.2
 RRT .7618 RRF .8391 RTF .9066
 SGB 4727.0 R23 .2235 R13 .9080
 SG1 4714.6 SG2 341.8 THA 4.94

ORBIT DETERMINATION ACCURACY

ST 1755.7 SR 446.9 SS 519.4
 CRT .9352 CRS -.9989 CST -.9401
 LSA 1871.5 MSA 222.4 SSA 15.3
 EL1 1805.2 EL2 154.0 ALF 13.49

LAUNCH DATE MAR 1 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 460.026

RL 148.24 LAL -.00 LOL 160.24 VL 26.945 GAL -2.93 AZL 86.26 HCA 225.00 SMA 124.66 ECC .19561 INC 3.7449 VI 30.058
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.201 GAP 8.46 AZP 92.65 TAL 192.20 TAP 57.20 RCA 100.28 APO 149.05 V2 34.957
 RC 159.953 GL 25.58 GP -27.23 ZAL 116.19 ZAP 148.38 ETS 306.48 ZAE 127.23 ETE 202.23 ZAC 137.49 ETC 191.97 CLP-163.28

PLANETOCENTRIC CONIC

C3 16.573 VHL 4.071 DLA 39.14 RAL 28.54 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 6.693 DPA -12.00 RAP 49.51 ECC 1.2728
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.76 17 24 52 4098.72 -28.02 180.04 257.72 61.47 18 33 11 3498.7 -31.60 172.20
 118.24 23 52 2 2886.25 -28.01 88.04 257.71 61.46 24 40 8 2286.3 -31.59 80.21
 61.76 17 24 52 4098.72 -28.02 180.04 257.72 61.47 18 33 11 3498.7 -31.60 172.20
 118.24 23 52 2 2886.25 -28.01 88.04 257.71 61.46 24 40 8 2286.3 -31.59 80.21
 61.76 17 24 52 4098.72 -28.02 180.04 257.72 61.47 18 33 11 3498.7 -31.60 172.20
 118.24 23 52 2 2886.25 -28.01 88.04 257.71 61.46 24 40 8 2286.3 -31.59 80.21

DIFFERENTIAL CORRECTIONS

TDE 1.1670 TRA-1.0981 TC3-4.9317 BAU 1.0951
 RDE .3172 RRA -.0153 RC3 -.3278 FAU .04609
 FDE .6143 FRA .0119 FC3-2.4074 BSP 15077
 BOE 1.2094 BRA 1.0982 BC3 4.9426 FSP -599

MID-COURSE EXECUTION ACCURACY

SGT 4774.1 SGR 520.9 SG3 185.1
 RRT .7481 RRF .8141 RTF .9041
 SGB 4802.5 R23 .2023 R13 .9053
 SG1 4790.1 SG2 344.5 THA 4.69

ORBIT DETERMINATION ACCURACY

ST 1752.0 SR 446.6 SS 501.1
 CRT .9448 CRS -.9984 CST -.9374
 LSA 1864.0 MSA 213.5 SSA 17.3
 EL1 1802.5 EL2 142.3 ALF 13.63

LAUNCH DATE MAR 1 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 465.803
 RL 148.24 LAL -.00 LOL 160.24 VL 26.890 GAL -2.55 AZL 86.61 HCA 228.19 SMA 124.32 ECC .19724 INC 3.3883 V1 30.058
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.173 GAP 8.69 AZP 92.26 TAL 190.47 TAP 58.66 RCA 99.80 APO 148.84 V2 34.970
 RC 162.097 GL -23.69 GP -25.52 ZAL 114.14 ZAP 150.23 ETS 306.66 ZAE 127.84 ETE 201.03 ZAC 139.83 ETC 191.48 CLP-164.12

PLANETOCENTRIC CONIC

C3 15.618 VHL 3.952 DLA 38.34 RAL 32.44 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 6.735 DPA -9.67 RAP 50.93 ECC 1.2570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.99 17 46 21 4068.18 -27.92 177.44 260.38 62.58 18 54 9 3468.2 -31.36 169.54
 117.01 0 5 35 2889.78 -27.91 88.27 260.37 62.57 0 53 45 2289.8 -31.35 80.38
 62.99 17 46 21 4068.18 -27.92 177.44 260.38 62.58 18 54 9 3468.2 -31.36 169.54
 117.01 0 5 35 2889.78 -27.91 88.27 260.37 62.57 0 53 45 2289.8 -31.35 80.38
 62.99 17 46 21 4068.18 -27.92 177.44 260.38 62.58 18 54 9 3468.2 -31.36 169.54
 117.01 0 5 35 2889.78 -27.91 88.27 260.37 62.57 0 53 45 2289.8 -31.35 80.38

DIFFERENTIAL CORRECTIONS

TDE 1.1423 TRA -.9436 TC3-5.3345 BAU 1.1159
 RDE .3083 RRA -.0061 RC3 -.3233 FAU .04484
 FDE .5665 FRA .0877 FC3-2.4857 BSP 15355
 BOE 1.1831 BRA .9436 BC3 5.3443 FSP -598

MID-COURSE EXECUTION ACCURACY

SGT 4854.1 SGR 514.9 SG3 184.5
 RRT .7349 RRF .7886 RTF .9030
 SGB 4881.4 R23 .1792 R13 .9041
 SG1 4868.9 SG2 348.1 THA 4.48

ORBIT DETERMINATION ACCURACY

ST 1741.3 SR 447.0 SS 480.0
 CRT .9544 CRS -.9963 CST -.9344
 LSA 1849.5 MSA 203.5 SSA 19.5
 EL1 1793.1 EL2 129.7 ALF 13.84

LAUNCH DATE MAR 1 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 471.569
 RL 148.24 LAL -.00 LOL 160.24 VL 26.836 GAL -2.16 AZL 86.93 HCA 231.37 SMA 123.98 ECC .19905 INC 3.0654 V1 30.058
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.147 GAP 8.92 AZP 91.91 TAL 188.74 TAP 60.11 RCA 99.30 APO 148.66 V2 34.983
 RC 164.221 GL -21.86 GP -24.00 ZAL 111.81 ZAP 151.91 ETS 306.70 ZAE 128.36 ETE 199.95 ZAC 142.15 ETC 191.01 CLP-164.97

PLANETOCENTRIC CONIC

C3 14.836 VHL 3.852 DLA 37.59 RAL 36.47 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 6.796 DPA -7.53 RAP 52.46 ECC 1.2442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.17 18 8 18 4039.56 -27.77 175.00 263.32 63.58 19 15 37 3439.6 -31.08 167.05
 115.83 0 15 46 2895.33 -27.76 88.64 263.32 63.57 1 4 1 2295.3 -31.07 80.70
 64.17 18 8 18 4039.56 -27.77 175.00 263.32 63.58 19 15 37 3439.6 -31.08 167.05
 115.83 0 15 46 2895.33 -27.76 88.64 263.32 63.57 1 4 1 2295.3 -31.07 80.70
 64.17 18 8 18 4039.56 -27.77 175.00 263.32 63.58 19 15 37 3439.6 -31.08 167.05
 115.83 0 15 46 2895.33 -27.76 88.64 263.32 63.57 1 4 1 2295.3 -31.07 80.70

DIFFERENTIAL CORRECTIONS

TDE 1.1169 TRA -.7820 TC3-5.7180 BAU 1.1359
 RDE .3015 RRA .0032 RC3 -.3188 FAU .04344
 FDE .5191 FRA .1608 FC3-2.5350 BSP 15639
 BOE 1.1569 BRA .7821 BC3 5.7269 FSP -595

MID-COURSE EXECUTION ACCURACY

SGT 4931.4 SGR 511.3 SG3 183.3
 RRT .7210 RRF .7630 RTF .9025
 SGB 4957.9 R23 .1573 R13 .9033
 SG1 4945.3 SG2 353.3 THA 4.30

ORBIT DETERMINATION ACCURACY

ST 1723.9 SR 448.5 SS 457.8
 CRT .9639 CRS -.9919 CST -.9306
 LSA 1828.8 MSA 193.3 SSA 22.1
 EL1 1777.5 EL2 115.9 ALF 14.14

LAUNCH DATE MAR 1 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 477.323
 RL 148.24 LAL -.00 LOL 160.24 VL 26.783 GAL -1.75 AZL 87.23 HCA 234.56 SMA 123.65 ECC .20106 INC 2.7697 V1 30.058
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.120 GAP 9.17 AZP 91.61 TAL 187.00 TAP 61.56 RCA 98.79 APO 148.51 V2 34.996
 RC 166.326 GL -20.07 GP -22.66 ZAL 109.22 ZAP 153.46 ETS 306.59 ZAE 128.80 ETE 198.97 ZAC 144.48 ETC 190.56 CLP-165.81

PLANETOCENTRIC CONIC

C3 14.208 VHL 3.769 DLA 36.87 RAL 40.63 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 6.873 DPA -5.57 RAP 54.10 ECC 1.2338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.34 18 30 57 4012.17 -27.56 172.66 266.54 64.48 19 37 49 3412.2 -30.75 164.67
 114.66 0 26 18 2903.50 -27.55 89.19 266.54 64.46 1 14 41 2303.5 -30.74 81.21
 65.34 18 30 57 4012.17 -27.56 172.66 266.54 64.48 19 37 49 3412.2 -30.75 164.67
 114.66 0 26 18 2903.50 -27.55 89.19 266.54 64.46 1 14 41 2303.5 -30.74 81.21
 65.34 18 30 57 4012.17 -27.56 172.66 266.54 64.48 19 37 49 3412.2 -30.75 164.67
 114.66 0 26 18 2903.50 -27.55 89.19 266.54 64.46 1 14 41 2303.5 -30.74 81.21

DIFFERENTIAL CORRECTIONS

TDE 1.0923 TRA -.6100 TC3-6.0624 BAU 1.1530
 RDE .2967 RRA .0130 RC3 -.3125 FAU .04177
 FDE .4740 FRA .2330 FC3-2.5455 BSP 15831
 BOE 1.1319 BRA .6101 BC3 6.0704 FSP -585

MID-COURSE EXECUTION ACCURACY

SGT 4998.7 SGR 509.4 SG3 181.2
 RRT .7056 RRF .7376 RTF .9018
 SGB 5024.6 R23 .1382 R13 .9026
 SG1 5011.7 SG2 360.1 THA 4.13

ORBIT DETERMINATION ACCURACY

ST 1702.0 SR 451.1 SS 436.4
 CRT .9732 CRS -.9844 CST -.9259
 LSA 1804.6 MSA 183.0 SSA 25.0
 EL1 1757.9 EL2 100.4 ALF 14.51

LAUNCH DATE MAR 1 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 483.064
 RL 148.24 LAL -.00 LOL 160.24 VL 26.730 GAL -1.34 AZL 87.50 HCA 237.76 SMA 123.33 ECC .20326 INC 2.4964 V1 30.058
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.095 GAP 9.42 AZP 91.33 TAL 185.25 TAP 63.01 RCA 98.26 APO 148.39 V2 35.010
 RC 168.410 GL -18.31 GP -21.45 ZAL 106.38 ZAP 154.90 ETS 306.33 ZAE 129.17 ETE 198.08 ZAC 146.80 ETC 190.13 CLP-166.64

PLANETOCENTRIC CONIC

C3 13.720 VHL 3.704 DLA 36.14 RAL 44.91 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 6.963 DPA -3.75 RAP 55.83 ECC 1.2258
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.54 18 54 28 3985.49 -27.27 170.36 270.03 65.31 20 0 54 3385.5 -30.36 162.35
 113.46 0 36 58 2914.85 -27.26 89.95 270.02 65.30 1 25 33 2314.8 -30.35 81.94
 66.54 18 54 28 3985.49 -27.27 170.36 270.03 65.31 20 0 54 3385.5 -30.36 162.35
 113.46 0 36 58 2914.85 -27.26 89.95 270.02 65.30 1 25 33 2314.8 -30.35 81.94
 66.54 18 54 28 3985.49 -27.27 170.36 270.03 65.31 20 0 54 3385.5 -30.36 162.35
 113.46 0 36 58 2914.85 -27.26 89.95 270.02 65.30 1 25 33 2314.8 -30.35 81.94

DIFFERENTIAL CORRECTIONS

TDE 1.0602 TRA -.4336 TC3-6.3755 BAU 1.1708
 RDE .2929 RRA .0226 RC3 -.3074 FAU .04012
 FDE .4271 FRA .2992 FC3-2.5317 BSP 16078
 BOE 1.0999 BRA .4342 BC3 6.3829 FSP -578

MID-COURSE EXECUTION ACCURACY

SGT 5068.2 SGR 508.9 SG3 178.8
 RRT .6911 RRF .7132 RTF .9025
 SGB 5093.7 R23 .1193 R13 .9031
 SG1 5080.5 SG2 366.9 THA 3.99

ORBIT DETERMINATION ACCURACY

ST 1664.9 SR 453.3 SS 412.0
 CRT .9816 CRS -.9724 CST -.9195
 LSA 1765.3 MSA 172.7 SSA 28.3
 EL1 1723.4 EL2 83.7 ALF 15.00

LAUNCH DATE MAR 1 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 488.790

RL 148.24 LAL -.00 LOL 160.24 VL 26.677 GAL -.90 AZL 87.76 MCA 240.95 SMA 123.01 ECC .20569 INC 2.2415 V1 30.058
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.070 GAP 9.67 AZP 91.09 TAL 183.50 TAP 64.45 RCA 97.71 APO 148.31 V2 35.023
 RC 170.474 GL 16.58 GP -20.38 ZAL 103.33 ZAP 156.22 ETS 305.92 ZAE 129.50 ETE 197.28 ZAC 149.13 ETC 189.71 CLP-167.47

PLANETOCENTRIC CONIC

C3 13.367 VHL 3.656 OLA 35.39 RAL 49.31 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 7.066 DPA -2.07 RAP 57.64 ECC 1.2200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.83 19 19 10 3958.47 -26.89 168.01 273.76 66.08 20 25 9 3358.5 -29.89 159.99
 112.17 0 47 23 2930.51 -26.88 91.01 273.76 66.07 1 36 13 2330.5 -29.88 82.99
 67.83 19 19 10 3958.47 -26.89 168.01 273.76 66.08 20 25 9 3358.5 -29.89 159.99
 112.17 0 47 23 2930.51 -26.88 91.01 273.76 66.07 1 36 13 2330.5 -29.88 82.99
 67.83 19 19 10 3958.47 -26.89 168.01 273.76 66.08 20 25 9 3358.5 -29.89 159.99
 112.17 0 47 23 2930.51 -26.88 91.01 273.76 66.07 1 36 13 2330.5 -29.88 82.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.0206 TRA -.2488 TC3-6.6428 BAU 1.1884 SGT 5136.2 SGR 509.3 SG3 176.2 ST 1612.4 SR 454.8 SS 385.7
 RDE .2899 RRA .0326 RC3 -.3028 FAU .03847 RRT .6775 RRF .6902 RTF .9039 CRT .9886 CRS -.9537 CST -.9105
 FDE .3788 FRA .3624 FC3-2.4918 BSP 16354 SGB 5161.4 R23 .1014 R13 .9044 LSA 1711.1 MSA 163.3 SSA 32.0
 BOE 1.0610 BRA .2509 BC3 6.6497 FSP -573 SG1 5147.9 SG2 373.7 THA 3.86 EL1 1674.0 EL2 65.9 ALF 15.60

LAUNCH DATE MAR 1 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 494.501

RL 148.24 LAL -.00 LOL 160.24 VL 26.625 GAL -.46 AZL 88.00 MCA 244.15 SMA 122.69 ECC .20834 INC 2.0018 V1 30.058
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.045 GAP 9.94 AZP 90.87 TAL 181.74 TAP 65.89 RCA 97.13 APO 148.25 V2 35.036
 RC 172.518 GL 14.86 GP -19.41 ZAL 100.08 ZAP 157.45 ETS 305.36 ZAE 129.79 ETE 196.56 ZAC 151.46 ETC 189.29 CLP-168.29

PLANETOCENTRIC CONIC

C3 13.146 VHL 3.626 OLA 34.59 RAL 53.81 RAD 6567.5 VEL 11.599 PTH 2.03 VHP 7.181 DPA -.52 RAP 59.52 ECC 1.2164
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.25 19 45 17 3930.13 -26.42 165.55 277.72 66.82 20 50 48 3330.1 -29.32 157.53
 110.75 0 57 7 2951.62 -26.41 92.44 277.72 66.81 1 46 19 2351.6 -29.31 84.43
 69.25 19 45 17 3930.13 -26.42 165.55 277.72 66.82 20 50 48 3330.1 -29.32 157.53
 110.75 0 57 7 2951.62 -26.41 92.44 277.72 66.81 1 46 19 2351.6 -29.31 84.43
 69.25 19 45 17 3930.13 -26.42 165.55 277.72 66.82 20 50 48 3330.1 -29.32 157.53
 110.75 0 57 7 2951.62 -26.41 92.44 277.72 66.81 1 46 19 2351.6 -29.31 84.43

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .9731 TRA -.0532 TC3-6.8468 BAU 1.2045 SGT 5198.6 SGR 510.1 SG3 173.2 ST 1545.2 SR 455.4 SS 359.0
 RDE .2877 RRA .0437 RC3 -.2971 FAU .03676 RRT .6638 RRF .6686 RTF .9052 CRT .9938 CRS -.9247 CST -.8975
 FDE .3301 FRA .4252 FC3-2.4205 BSP 16559 SGB 5223.6 R23 .0863 R13 .9056 LSA 1642.6 MSA 156.8 SSA 35.8
 BOE 1.0147 BRA .0688 BC3 6.8532 FSP -562 SG1 5209.7 SG2 380.7 THA 3.75 EL1 1610.2 EL2 48.6 ALF 16.34

LAUNCH DATE MAR 1 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 500.202

RL 148.24 LAL -.00 LOL 160.24 VL 26.574 GAL .01 AZL 88.23 MCA 247.35 SMA 122.38 ECC .21124 INC 1.7745 V1 30.058
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.021 GAP 10.22 AZP 90.68 TAL 179.98 TAP 67.33 RCA 96.53 APO 148.24 V2 35.050
 RC 174.540 GL 13.16 GP -18.54 ZAL 96.66 ZAP 158.59 ETS 304.63 ZAE 130.05 ETE 195.91 ZAC 153.81 ETC 188.86 CLP-169.10

PLANETOCENTRIC CONIC

C3 13.056 VHL 3.613 OLA 33.73 RAL 58.38 RAD 6567.5 VEL 11.595 PTH 2.03 VHP 7.307 DPA .92 RAP 61.48 ECC 1.2149
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.85 20 13 9 3899.32 -25.84 162.87 281.90 67.53 21 18 8 3299.3 -28.66 154.86
 109.15 1 5 44 2979.45 -25.83 94.35 281.90 67.51 1 55 24 2379.5 -28.64 86.34
 70.85 20 13 9 3899.32 -25.84 162.87 281.90 67.53 21 18 8 3299.3 -28.66 154.86
 109.15 1 5 44 2979.45 -25.83 94.35 281.90 67.51 1 55 24 2379.5 -28.64 86.34
 110.00 1 52 59 2835.04 -29.26 84.55 283.34 71.47 2 40 14 2235.0 -31.50 76.06
 110.00 0 29 1 3091.73 -22.51 101.43 280.24 63.57 1 20 32 2491.7 -25.87 93.89

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE 1.0321 TRA .2500 TC3-6.5889 BAU 1.1507 SGT 5057.5 SGR 525.0 SG3 161.2 ST 1649.0 SR 484.6 SS 425.8
 RDE .3046 RRA .0685 RC3 -.2199 FAU .02962 RRT .6061 RRF .6640 RTF .8728 CRT .9970 CRS -.9166 CST -.9205
 FDE .3747 FRA .5529 FC3-1.9641 BSP 14402 SGB 5084.7 R23 .1652 R13 .8737 LSA 1762.9 MSA 162.3 SSA 35.8
 BOE 1.0761 BRA .2592 BC3 6.5926 FSP -388 SG1 5067.6 SG2 416.7 THA 3.62 EL1 1718.4 EL2 35.8 ALF 16.34

LAUNCH DATE MAR 1 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 505.866

RL 148.24 LAL -.00 LOL 160.24 VL 26.523 GAL .48 AZL 88.44 MCA 250.56 SMA 122.08 ECC .21442 INC 1.5574 V1 30.058
 RP 108.08 LAP -1.47 LOP 50.79 VP 36.997 GAP 10.51 AZP 90.52 TAL 178.23 TAP 68.78 RCA 95.90 APO 148.26 V2 35.063
 RC 176.542 GL 11.49 GP -17.75 ZAL 93.13 ZAP 159.66 ETS 303.73 ZAE 130.28 ETE 195.31 ZAC 156.15 ETC 188.40 CLP-169.90

PLANETOCENTRIC CONIC

C3 13.106 VHL 3.620 OLA 32.80 RAL 62.96 RAD 6567.5 VEL 11.597 PTH 2.03 VHP 7.446 DPA 2.26 RAP 63.49 ECC 1.2157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.72 20 43 8 3864.06 -25.14 159.83 286.23 68.21 21 47 32 3264.1 -27.87 151.84
 107.28 1 12 16 3016.37 -25.13 96.88 286.23 68.20 2 2 33 2416.4 -27.86 88.89
 72.72 20 43 8 3864.06 -25.14 159.83 286.23 68.21 21 47 32 3264.1 -27.87 151.84
 107.28 1 12 16 3016.37 -25.13 96.88 286.23 68.20 2 2 33 2416.4 -27.86 88.89
 110.00 2 42 41 2738.10 -31.15 77.64 288.49 75.16 3 28 19 2138.1 -32.87 68.84
 110.00 0 15 49 3190.33 -19.40 107.39 283.31 61.29 1 9 0 2590.3 -23.08 100.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8515 TRA .3686 TC3-7.0214 BAU 1.2313 SGT 5305.0 SGR 513.0 SG3 166.1 ST 1372.0 SR 455.2 SS 313.4
 RDE .2865 RRA .0680 RC3 -.2800 FAU .03309 RRT .6359 RRF .6309 RTF .9082 CRT .9929 CRS -.8213 CST -.8624
 FDE .2369 FRA .5444 FC3-2.1861 BSP 16894 SGB 5329.8 R23 .0649 R13 .9085 LSA 1469.8 MSA 160.9 SSA 40.8
 BOE .8984 BRA .3748 BC3 7.0270 FSP -537 SG1 5315.1 SG2 395.2 THA 3.54 EL1 1444.7 EL2 51.6 ALF 18.25

LAUNCH DATE MAR 1 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 511.517

RL 148.24 LAL -0.00 LOL 160.24 VL 26.473 GAL .98 AZL 88.65 HCA 253.76 SMA 121.78 ECC .21787 INC 1.3486 V1 30.058
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.973 GAP 10.81 AZP 90.38 TAL 176.47 TAP 70.23 RCA 95.25 APO 148.31 V2 35.076
 RC 178.523 GL 9.84 GP -17.04 ZAL 89.49 ZAP 160.65 ETS 302.66 ZAE 130.50 ETE 194.78 ZAC 158.51 ETC 187.90 CLP-170.70

PLANETOCENTRIC CONIC

C3 13.298 VHL 3.647 DLA 31.79 RAL 67.54 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 7.596 DPA 3.50 RAP 65.56 ECC 1.2189
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.91 21 15 55 3821.98 -24.33 156.27 290.71 68.88 22 19 37 3222.0 -26.98 148.31
 105.09 1 16 1 3064.74 -24.32 100.22 290.71 68.87 2 7 6 2464.7 -26.97 92.27
 74.91 21 15 55 3821.98 -24.33 156.27 290.71 68.88 22 19 37 3222.0 -26.98 148.31
 105.09 1 16 1 3064.74 -24.32 100.22 290.71 68.87 2 7 6 2464.7 -26.97 92.27
 110.00 3 23 48 2668.64 -32.25 72.52 293.38 78.00 4 8 16 2068.6 -33.57 63.54
 110.00 0 11 15 3266.08 -16.87 111.80 286.89 59.82 1 5 41 2666.1 -20.75 104.82

DIFFERENTIAL CORRECTIONS

TDE .7692 TRA .5926 TC3-6.9959 BAU 1.2447
 RDE .2862 RRA .0811 RC3 -.2706 FAU .03137
 FDE .1866 FRA .5995 FC3-2.0425 BSP 17130
 BDE .8207 BRA .5981 BC3 7.0011 FSP -530

MID-COURSE EXECUTION ACCURACY

SGT 5356.7 SGR 513.4 SG3 162.4
 RRT .6235 RRF .6134 RTF .9106
 SGB 5381.3 R23 .0543 R13 .9109
 SG1 5366.3 SG2 400.7 THA 3.44

ORBIT DETERMINATION ACCURACY

ST 1261.8 SR 451.9 SS 292.4
 CRT .9805 CRS -.7303 CST -.8369
 LSA 1359.6 MSA 177.8 SSA 40.4
 EL1 1337.6 EL2 83.8 ALF 19.43

LAUNCH DATE MAR 1 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 517.143

RL 148.24 LAL -0.00 LOL 160.24 VL 26.423 GAL 1.50 AZL 88.85 HCA 256.97 SMA 121.49 ECC .22164 INC 1.1464 V1 30.058
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.950 GAP 11.13 AZP 90.26 TAL 174.71 TAP 71.69 RCA 94.56 APO 148.42 V2 35.089
 RC 180.483 GL 8.23 GP -16.40 ZAL 85.80 ZAP 161.58 ETS 301.39 ZAE 130.69 ETE 194.29 ZAC 160.87 ETC 187.33 CLP-171.49

PLANETOCENTRIC CONIC

C3 13.643 VHL 3.694 DLA 30.71 RAL 72.06 RAD 6567.5 VEL 11.620 PTH 2.04 VHP 7.758 DPA 4.65 RAP 67.68 ECC 1.2245
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.59 21 52 54 3768.00 -23.41 151.81 295.30 69.53 22 55 42 3168.0 -25.98 143.89
 102.41 1 15 10 3129.87 -23.39 104.75 295.30 69.52 2 7 20 2529.9 -25.97 96.83
 77.59 21 52 54 3768.00 -23.41 151.81 295.30 69.53 22 55 42 3168.0 -25.98 143.89
 102.41 1 15 10 3129.87 -23.39 104.75 295.30 69.52 2 7 20 2529.9 -25.97 96.83
 110.00 4 1 19 2610.94 -32.98 68.18 298.21 80.47 4 44 50 2010.9 -33.95 59.08
 110.00 0 9 52 3334.93 -14.47 115.69 290.72 58.69 1 5 27 2734.9 -18.51 108.91

DIFFERENTIAL CORRECTIONS

TDE .6759 TRA .8277 TC3-6.8848 BAU 1.2566
 RDE .2864 RRA .0948 RC3 -.2594 FAU .02967
 FDE .1370 FRA .6530 FC3-1.8826 BSP 17307
 BDE .7340 BRA .8331 BC3 6.8896 FSP -520

MID-COURSE EXECUTION ACCURACY

SGT 5403.4 SGR 513.3 SG3 158.6
 RRT .6116 RRF .5973 RTF .9133
 SGB 5427.7 R23 .0449 R13 .9135
 SG1 5412.6 SG2 405.4 THA 3.34

ORBIT DETERMINATION ACCURACY

ST 1150.3 SR 447.3 SS 277.8
 CRT .9517 CRS -.6083 CST -.8126
 LSA 1247.3 MSA 207.6 SSA 37.9
 EL1 1227.4 EL2 128.7 ALF 20.55

LAUNCH DATE MAR 1 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 522.742

RL 148.24 LAL -0.00 LOL 160.24 VL 26.374 GAL 2.04 AZL 89.05 HCA 260.19 SMA 121.20 ECC .22573 INC .9491 V1 30.058
 RP 107.96 LAP -0.94 LOP 60.42 VP 36.927 GAP 11.46 AZP 90.16 TAL 172.96 TAP 73.15 RCA 93.84 APO 148.56 V2 35.102
 RC 182.422 GL 6.66 GP -15.82 ZAL 82.09 ZAP 162.44 ETS 299.94 ZAE 130.87 ETE 193.85 ZAC 163.24 ETC 186.65 CLP-172.28

PLANETOCENTRIC CONIC

C3 14.154 VHL 3.762 DLA 29.56 RAL 76.50 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 7.932 DPA 5.71 RAP 69.85 ECC 1.2329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.15 22 37 24 3690.75 -22.38 145.65 299.97 70.17 23 38 54 3090.7 -24.88 137.77
 98.85 1 6 6 3223.24 -22.37 111.30 299.96 70.16 1 59 49 2623.2 -24.87 103.42
 100.00 1 52 38 3074.36 -25.20 101.28 300.98 73.37 2 43 53 2474.4 -27.24 93.07
 100.00 0 37 28 3314.86 -19.60 116.93 298.80 66.97 1 32 43 2714.9 -22.55 109.38
 110.00 4 36 29 2560.92 -33.48 64.36 303.00 82.68 5 19 10 1960.9 -34.13 55.18
 110.00 0 10 7 3401.07 -12.10 119.35 294.72 57.78 1 6 48 2801.1 -16.27 112.72

DIFFERENTIAL CORRECTIONS

TDE .5729 TRA 1.0775 TC3-6.6848 BAU 1.2657
 RDE .2876 RRA .1097 RC3 -.2457 FAU .02791
 FDE .0893 FRA .7073 FC3-1.7074 BSP 17421
 BDE .6410 BRA 1.0831 BC3 6.6893 FSP -507

MID-COURSE EXECUTION ACCURACY

SGT 5442.3 SGR 512.8 SG3 154.6
 RRT .6000 RRF .5829 RTF .9155
 SGB 5466.5 R23 .0381 R13 .9157
 SG1 5451.1 SG2 409.6 THA 3.25

ORBIT DETERMINATION ACCURACY

ST 1050.8 SR 441.8 SS 272.4
 CRT .8951 CRS -.4622 CST -.8013
 LSA 1144.5 MSA 250.1 SSA 34.4
 EL1 1125.0 EL2 184.0 ALF 21.22

LAUNCH DATE MAR 1 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 528.308

RL 148.24 LAL -0.00 LOL 160.24 VL 26.326 GAL 2.61 AZL 89.24 HCA 263.40 SMA 120.92 ECC .23019 INC .7556 V1 30.058
 RP 107.92 LAP -0.75 LOP 63.64 VP 36.904 GAP 11.81 AZP 90.09 TAL 171.21 TAP 74.61 RCA 93.09 APO 148.76 V2 35.114
 RC 184.340 GL 5.16 GP -15.28 ZAL 78.39 ZAP 163.25 ETS 298.27 ZAE 131.03 ETE 193.44 ZAC 165.61 ETC 185.81 CLP-173.07

PLANETOCENTRIC CONIC

C3 14.845 VHL 3.853 DLA 28.35 RAL 80.82 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 8.120 DPA 6.69 RAP 72.06 ECC 1.2443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.57 23 55 4 3506.23 -21.27 131.66 304.68 70.80 24 53 30 2906.2 -23.69 123.82
 91.43 0 22 51 3428.92 -21.25 126.00 304.67 70.78 1 20 0 2828.9 -23.68 118.16
 100.00 2 52 45 2945.62 -27.41 92.35 306.59 77.57 3 41 51 2345.6 -28.84 83.84
 100.00 0 11 47 3464.76 -15.36 126.04 302.09 64.04 1 9 31 2864.8 -18.73 118.87
 110.00 5 9 41 2516.99 -33.81 60.98 307.75 84.66 5 51 38 1917.0 -34.18 51.75
 110.00 0 11 20 3466.15 -9.71 122.88 298.83 57.06 1 9 6 2866.2 -13.98 116.39

DIFFERENTIAL CORRECTIONS

TDE .4552 TRA 1.3361 TC3-6.4210 BAU 1.2751
 RDE .2892 RRA .1250 RC3 -.2310 FAU .02625
 FDE .0410 FRA .7590 FC3-1.5312 BSP 17594
 BDE .5393 BRA 1.3420 BC3 6.4251 FSP -497

MID-COURSE EXECUTION ACCURACY

SGT 5480.6 SGR 511.1 SG3 150.7
 RRT .5886 RRF .5690 RTF .9182
 SGB 5504.4 R23 .0315 R13 .9183
 SG1 5488.9 SG2 412.6 THA 3.16

ORBIT DETERMINATION ACCURACY

ST 969.0 SR 434.7 SS 274.4
 CRT .7948 CRS -.2987 CST -.8103
 LSA 1054.0 MSA 302.2 SSA 30.9
 EL1 1032.8 EL2 247.5 ALF 20.88

LAUNCH DATE MAR 1 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 533.840

RL 148.24 LAL -.00 LOL 160.24 VL 26.278 GAL 3.20 AZL 89.44 MCA 266.62 SMA 120.64 ECC .23505 INC .5644 VI 30.058
 RP 107.88 LAP -.56 LOP 66.85 VP 36.882 GAP 12.19 AZP 90.03 TAL 169.48 TAP 76.09 RCA 92.29 APO 149.00 V2 35.126
 RC 186.236 GL 3.74 GP -14.80 ZAL 74.75 ZAP 164.00 ETS 296.39 ZAE 131.18 ETE 193.07 ZAC 167.98 ETC 184.68 CLP-173.85

PLANETOCENTRIC CONIC

C3 15.736 VHL 3.967 CLA 27.10 RAL 84.98 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 8.322 CPA 7.59 RAP 74.31 ECC 1.2590
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 40 16 3243.03 -25.48 113.74 311.05 77.20 2 34 19 2643.0 -26.99 105.40
 90.00 23 10 49 3718.33 -14.85 144.44 307.25 65.61 24 12 47 3118.3 -18.02 137.20
 100.00 3 36 57 2866.91 -28.43 86.73 311.71 80.36 4 24 43 2266.9 -29.47 78.08
 100.00 0 0 45 3569.68 -12.14 132.17 305.90 62.47 1 0 15 2969.7 -15.74 125.22
 110.00 5 41 4 2478.49 -34.02 57.99 312.47 86.42 6 22 23 1878.5 -34.14 48.75
 110.00 0 13 7 3530.86 -7.30 126.34 303.00 56.51 1 11 58 2930.9 -11.65 119.95

DIFFERENTIAL CORRECTIONS

TDE .3265 TRA 1.6074 TC3-6.0954 BAU 1.2831
 RDE .2914 RRA .1408 RC3 -.2150 FAU .02464
 FDE -.0063 FRA .8098 FC3-1.3554 BSP 17749
 BDE .4376 BRA 1.6136 BC3 6.0992 FSP -486

MID-COURSE EXECUTION ACCURACY

SGT 5514.6 SGR 508.4 SG3 146.7
 RRT .5776 RRF .5558 RTF .9209
 SGB 5537.9 R23 .0256 R13 .9210
 SG1 5522.4 SG2 414.4 THA 3.07

ORBIT DETERMINATION ACCURACY

ST 925.0 SR 426.5 SS 284.4
 CRT .6410 CRS -.1383 CST -.8438
 LSA 995.6 MSA 355.4 SSA 27.6
 EL1 969.5 EL2 312.3 ALF 18.45

LAUNCH DATE MAR 1 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 539.330

RL 148.24 LAL -.00 LOL 160.24 VL 26.231 GAL 3.81 AZL 89.63 MCA 269.84 SMA 120.37 ECC .24034 INC .3742 VI 30.058
 RP 107.85 LAP -.37 LOP 70.07 VP 36.860 GAP 12.58 AZP 90.00 TAL 167.75 TAP 77.58 RCA 91.44 APO 149.30 V2 35.138
 RC 188.109 GL 2.39 GP -14.36 ZAL 71.20 ZAP 164.69 ETS 294.27 ZAE 131.32 ETE 192.73 ZAC 170.35 ETC 183.06 CLP-174.63

PLANETOCENTRIC CONIC

C3 16.850 VHL 4.105 CLA 25.83 RAL 88.95 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 8.540 CPA 8.42 RAP 76.60 ECC 1.2773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 27 21 3154.05 -26.67 107.50 316.24 80.11 3 19 55 2554.1 -27.76 99.01
 90.00 22 55 27 3838.53 -11.36 151.53 311.00 63.89 23 59 26 3238.5 -14.78 144.53
 100.00 4 14 57 2807.16 -29.04 82.39 316.65 82.56 5 1 45 2207.2 -29.76 73.66
 100.00 23 50 33 3660.65 -9.23 137.35 309.88 61.44 24 51 33 3060.6 -12.97 130.56
 110.00 6 10 40 2445.13 -34.13 55.39 317.15 87.95 6 51 25 1845.1 -34.04 46.14
 110.00 0 15 15 3595.45 -4.86 129.75 307.22 56.12 1 15 11 2995.4 -9.27 123.44

DIFFERENTIAL CORRECTIONS

TDE .1879 TRA 1.8924 TC3-5.7192 BAU 1.2892
 RDE .2944 RRA .1572 RC3 -.1976 FAU .02303
 FDE -.0523 FRA .8607 FC3-1.1834 BSP 17892
 BDE .3492 BRA 1.8989 BC3 5.7227 FSP -476

MID-COURSE EXECUTION ACCURACY

SGT 5543.2 SGR 504.6 SG3 142.8
 RRT .5667 RRF .5433 RTF .9235
 SGB 5566.1 R23 .0206 R13 .9236
 SG1 5550.6 SG2 415.2 THA 2.97

ORBIT DETERMINATION ACCURACY

ST 929.3 SR 417.4 SS 301.1
 CRT .4455 CRS .0035 CST -.8899
 LSA 985.6 MSA 395.5 SSA 24.8
 EL1 951.0 EL2 365.1 ALF 13.31

LAUNCH DATE MAR 1 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 544.775

RL 148.24 LAL -.00 LOL 160.24 VL 26.185 GAL 4.46 AZL 89.82 MCA 273.06 SMA 120.11 ECC .24609 INC .1841 VI 30.058
 RP 107.81 LAP -.18 LOP 73.29 VP 36.838 GAP 13.00 AZP 89.99 TAL 166.03 TAP 79.09 RCA 90.55 APO 149.67 V2 35.150
 RC 189.959 GL 1.13 GP -13.95 ZAL 67.76 ZAP 165.32 ETS 291.91 ZAE 131.44 ETE 192.42 ZAC 172.70 ETC 180.46 CLP-175.41

PLANETOCENTRIC CONIC

C3 18.215 VHL 4.268 CLA 24.55 RAL 92.73 RAD 6567.7 VEL 11.815 PTH 2.09 VHP 8.775 CPA 9.17 RAP 78.91 ECC 1.2998
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 6 17 3090.44 -27.33 102.97 321.20 82.29 3 57 48 2490.4 -28.12 94.39
 90.00 22 46 41 3938.26 -8.31 157.28 314.96 62.83 23 52 19 3338.3 -11.89 150.42
 100.00 4 48 57 2759.44 -29.41 78.89 321.48 84.37 5 34 57 2159.4 -29.87 70.11
 100.00 23 46 42 3744.49 -6.47 142.04 313.96 60.75 24 49 7 3144.5 -10.32 135.37
 110.00 6 38 29 2416.75 -34.18 53.17 321.79 89.26 7 18 46 1816.7 -33.90 43.94
 110.00 0 17 35 3659.95 -2.40 133.12 311.45 55.89 1 18 35 3059.9 -6.86 126.88

DIFFERENTIAL CORRECTIONS

TDE .0437 TRA 2.1956 TC3-5.3005 BAU 1.2915
 RDE .2985 RRA .1742 RC3 -.1790 FAU .02141
 FDE -.0951 FRA .9129 FC3-1.0174 BSP 17940
 BDE .3017 BRA 2.2025 BC3 5.3035 FSP -463

MID-COURSE EXECUTION ACCURACY

SGT 5565.4 SGR 500.0 SG3 138.9
 RRT .5562 RRF .5322 RTF .9261
 SGB 5587.8 R23 .0172 R13 .9261
 SG1 5572.4 SG2 415.0 THA 2.88

ORBIT DETERMINATION ACCURACY

ST 983.3 SR 408.1 SS 322.0
 CRT .2470 CRS .1145 CST -.9315
 LSA 1033.0 MSA 411.7 SSA 22.5
 EL1 989.4 EL2 393.0 ALF 6.96

LAUNCH DATE MAR 1 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 550.165

RL 148.24 LAL -.00 LOL 160.24 VL 26.139 GAL 5.14 AZL 90.01 MCA 276.28 SMA 119.85 ECC .25237 INC .0000 VI 30.058
 RP 107.78 LAP .01 LOP 76.52 VP 36.816 GAP 13.45 AZP 90.00 TAL 164.33 TAP 80.61 RCA 89.60 APO 150.10 V2 35.161
 RC 191.786 GL -.04 GP -13.58 ZAL 64.45 ZAP 165.90 ETS 289.30 ZAE 131.55 ETE 192.12 ZAC 175.04 ETC 175.46 CLP-176.19

PLANETOCENTRIC CONIC

C3 19.864 VHL 4.457 CLA 23.28 RAL 96.30 RAD 6567.8 VEL 11.885 PTH 2.11 VHP 9.029 CPA 9.85 RAP 81.25 ECC 1.3269
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 25 3041.40 -27.73 99.43 326.02 84.02 4 31 6 2441.4 -28.27 90.81
 90.00 22 41 3 4028.16 -5.48 162.37 319.02 62.18 23 48 11 3428.2 -9.16 155.62
 100.00 5 19 49 2720.90 -29.63 76.05 326.21 85.85 6 5 10 2120.9 -29.89 67.25
 100.00 23 44 20 3823.89 -3.81 146.44 318.10 60.33 24 48 4 3223.9 -7.73 139.85
 110.00 7 4 32 2393.27 -34.18 51.34 326.39 90.35 7 44 26 1793.3 -33.76 42.12
 110.00 0 20 2 3724.29 .06 136.48 315.69 55.82 1 22 6 3124.3 -4.43 130.27

DIFFERENTIAL CORRECTIONS

TDE -.1136 TRA 2.5099 TC3-4.8699 BAU 1.2940
 RDE .3031 RRA .1912 RC3 -.1608 FAU .01991
 FDE -.1384 FRA .9637 FC3 -.8677 BSP 18068
 BDE .3237 BRA 2.5172 BC3 4.8726 FSP -453

MID-COURSE EXECUTION ACCURACY

SGT 5585.9 SGR 493.9 SG3 135.2
 RRT .5456 RRF .5206 RTF .9290
 SGB 5607.7 R23 .0131 R13 .9291
 SG1 5592.5 SG2 413.5 THA 2.78

ORBIT DETERMINATION ACCURACY

ST 1071.7 SR 397.8 SS 345.2
 CRT .0663 CRS .2086 CST -.9599
 LSA 1122.3 MSA 407.5 SSA 20.5
 EL1 1072.1 EL2 396.8 ALF 1.63

LAUNCH DATE MAR 1 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 555.493

RL 148.24 LAL -.00 LOL 160.24 VL 26.094 GAL 5.86 AZL 90.20 HCA 279.50 SMA 119.59 ECC .25923 INC .2006 V1 30.058
 RP 107.75 LAP .20 LOP 79.74 VP 36.794 GAP 13.93 AZP 90.03 TAL 162.65 TAP 82.15 RCA 88.59 APO 150.60 V2 35.172
 RC 193.588 GL -1.12 GP -13.25 ZAL 61.29 ZAP 166.42 ETS 286.43 ZAE 131.64 ETE 191.85 ZAC 177.27 ETC 162.17 CLP-176.98

PLANETOCENTRIC CONIC

C3 21.837 VHL 4.673 DLA 22.03 RAL 99.66 RAD 6567.9 VEL 11.967 PTH 2.13 VHP 9.303 DPA 10.45 RAP 83.61 ECC 1.3594
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 10 59 3002.92 -27.97 96.64 330.73 85.40 5 1 2 2402.9 -28.32 87.99
 90.00 22 37 16 4112.05 -2.80 167.07 323.12 61.81 23 45 48 3512.1 -6.55 160.40
 100.00 5 48 1 2690.07 -29.76 73.76 330.87 87.05 6 32 51 2090.1 -29.85 64.96
 100.00 23 42 55 3900.13 -1.23 150.63 322.25 60.13 24 47 55 3300.1 -5.20 144.09
 110.00 7 28 51 2374.60 -34.16 49.88 330.94 91.21 8 8 25 1774.6 -33.62 40.68
 110.00 0 22 30 3788.37 2.51 139.82 319.92 55.90 1 25 39 3188.4 -1.99 133.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2783 TRA 2.8411 TC3-4.4293 BAU 1.2938
 RDE .3087 RRA .2082 RC3 -.1426 FAU .01844
 FDE -.1797 FRA 1.0153 FC3 -.7310 BSP 18174
 BDE .4156 BRA 2.8487 BC3 4.4316 FSP -443

SGT 5601.2 SGR 486.7 SG3 131.6
 RRT .5347 RRF .5095 RTF .9321
 SGB 5622.3 R23 .0099 R13 .9321
 SG1 5607.3 SG2 410.8 THA 2.67

ST 1184.3 SR 387.4 SS 369.4
 CRT -.0773 CRS .2809 CST -.9771
 LSA 1238.9 MSA 392.2 SSA 18.9
 EL1 1184.8 EL2 386.1 ALF 178.38

LAUNCH DATE MAR 1 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 560.750

RL 148.24 LAL -.00 LOL 160.24 VL 26.049 GAL 6.63 AZL 90.40 HCA 282.73 SMA 119.35 ECC .26672 INC .3985 V1 30.058
 RP 107.71 LAP .39 LOP 82.97 VP 36.772 GAP 14.45 AZP 90.09 TAL 160.99 TAP 83.72 RCA 87.51 APO 151.18 V2 35.182
 RC 195.366 GL -2.10 GP -12.93 ZAL 58.30 ZAP 166.88 ETS 283.28 ZAE 131.72 ETE 191.60 ZAC 178.70 ETC 101.56 CLP-177.77

PLANETOCENTRIC CONIC

C3 24.183 VHL 4.918 DLA 20.81 RAL 102.81 RAD 6568.0 VEL 12.065 PTH 2.16 VHP 9.601 DPA 10.99 RAP 85.98 ECC 1.3980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 39 2972.94 -28.12 94.46 335.36 86.49 5 28 12 2372.9 -28.31 85.80
 90.00 22 34 41 4191.71 -.23 171.52 327.25 61.68 23 44 32 3591.7 -4.01 164.88
 100.00 6 13 51 2665.99 -29.83 71.98 335.45 87.98 6 58 17 2066.0 -29.79 63.17
 100.00 23 42 10 3973.89 1.27 154.67 326.42 60.13 24 48 24 3373.9 -2.71 148.15
 110.00 7 51 27 2360.60 -34.14 48.79 335.46 91.86 8 30 48 1760.6 -33.50 39.60
 110.00 0 24 59 3852.05 4.93 143.16 324.14 56.13 1 29 11 3252.1 .45 136.94

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4506 TRA 3.1905 TC3-3.9907 BAU 1.2909
 RDE .3151 RRA .2252 RC3 -.1248 FAU .01700
 FDE -.2195 FRA 1.0682 FC3 -.6085 BSP 18266
 BDE .5499 BRA 3.1985 BC3 3.9927 FSP -433

SGT 5612.2 SGR 478.2 SG3 128.0
 RRT .5236 RRF .4986 RTF .9352
 SGB 5632.5 R23 .0074 R13 .9352
 SG1 5617.8 SG2 407.0 THA 2.57

ST 1308.8 SR 376.7 SS 393.7
 CRT -.1863 CRS .3366 CST -.9867
 LSA 1367.5 MSA 373.3 SSA 17.5
 EL1 1310.8 EL2 369.6 ALF 176.66

LAUNCH DATE MAR 1 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 565.923

RL 148.24 LAL -.00 LOL 160.24 VL 26.006 GAL 7.43 AZL 90.60 HCA 285.96 SMA 119.10 ECC .27492 INC .6016 V1 30.058
 RP 107.68 LAP .58 LOP 86.20 VP 36.751 GAP 15.00 AZP 90.17 TAL 159.36 TAP 85.32 RCA 86.36 APO 151.84 V2 35.192
 RC 197.118 GL -2.99 GP -12.65 ZAL 55.47 ZAP 167.27 ETS 279.87 ZAE 131.78 ETE 191.36 ZAC 177.31 ETC 39.49 CLP-178.58

PLANETOCENTRIC CONIC

C3 26.960 VHL 5.192 DLA 19.65 RAL 105.74 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 9.925 DPA 11.47 RAP 88.37 ECC 1.4437
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 3 49 2950.22 -28.20 92.81 339.91 87.31 5 52 59 2350.2 -28.27 84.14
 90.00 22 32 55 4268.11 2.24 175.78 331.39 61.76 23 44 3 3668.1 -1.56 169.15
 100.00 6 37 32 2648.00 -29.87 70.64 339.98 88.69 7 21 40 2048.0 -29.73 61.84
 100.00 23 41 53 4045.56 3.70 158.61 330.58 60.32 24 49 19 3445.6 -.28 152.09
 110.00 8 12 26 2351.11 -34.12 48.05 339.94 92.29 8 51 37 1751.1 -33.42 38.88
 110.00 0 27 25 3915.21 7.32 146.50 328.35 56.52 1 32 40 3315.2 2.86 140.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6271 TRA 3.5631 TC3-3.5572 BAU 1.2827
 RDE .3228 RRA .2421 RC3 -.1073 FAU .01553
 FDE -.2567 FRA 1.1238 FC3 -.4987 BSP 18253
 BDE .7053 BRA 3.5713 BC3 3.5588 FSP -420

SGT 5617.3 SGR 468.8 SG3 124.7
 RRT .5124 RRF .4883 RTF .9384
 SGB 5636.8 R23 .0058 R13 .9384
 SG1 5622.4 SG2 402.2 THA 2.46

ST 1435.2 SR 366.3 SS 417.0
 CRT -.2655 CRS .3774 CST -.9921
 LSA 1497.3 MSA 354.6 SSA 16.4
 EL1 1438.7 EL2 352.3 ALF 175.88

LAUNCH DATE MAR 1 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 570.997

RL 148.24 LAL -.00 LOL 160.24 VL 25.963 GAL 8.29 AZL 90.81 HCA 289.19 SMA 118.86 ECC .28390 INC .8112 V1 30.058
 RP 107.66 LAP .77 LOP 89.43 VP 36.729 GAP 15.60 AZP 90.27 TAL 157.76 TAP 86.95 RCA 85.12 APO 152.61 V2 35.201
 RC 198.846 GL -3.79 GP -12.39 ZAL 52.82 ZAP 167.60 ETS 276.19 ZAE 131.82 ETE 191.13 ZAC 175.11 ETC 25.91 CLP-179.39

PLANETOCENTRIC CONIC

C3 30.240 VHL 5.499 DLA 18.53 RAL 108.47 RAD 6568.2 VEL 12.313 PTH 2.22 VHP 10.278 DPA 11.87 RAP 90.76 ECC 1.4977
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 26 44 2933.88 -28.25 91.61 344.40 87.91 6 15 38 2333.9 -28.24 82.95
 90.00 22 31 45 4341.78 4.60 179.90 335.53 62.03 23 44 7 3741.8 .82 173.26
 100.00 6 59 15 2635.55 -29.88 69.71 344.45 89.17 7 43 11 2035.5 -29.68 60.92
 100.00 23 41 55 4115.34 6.04 162.47 334.74 60.67 24 50 31 3515.3 2.08 155.92
 110.00 8 31 49 2345.94 -34.10 47.64 344.37 92.53 9 10 55 1745.9 -33.37 38.48
 110.00 0 29 46 3977.72 9.65 149.83 332.54 57.05 1 36 4 3377.7 5.24 143.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8153 TRA 3.9528 TC3-3.1478 BAU 1.2731
 RDE .3312 RRA .2581 RC3 -.0912 FAU .01417
 FDE -.2942 FRA 1.1797 FC3 -.4058 BSP 18333
 BDE .8800 BRA 3.9612 BC3 3.1492 FSP -410

SGT 5619.2 SGR 457.8 SG3 121.4
 RRT .5000 RRF .4768 RTF .9420
 SGB 5637.8 R23 .0040 R13 .9420
 SG1 5623.9 SG2 396.2 THA 2.34

ST 1559.0 SR 355.4 SS 439.9
 CRT -.3283 CRS .4126 CST -.9952
 LSA 1623.9 MSA 336.2 SSA 15.4
 EL1 1563.6 EL2 334.7 ALF 175.51

LAUNCH DATE MAR 1 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 575.954

RL 148.24 LAL -0.00 LOL 160.24 VL 25.920 GAL 9.21 AZL 91.03 HCA 292.42 SMA 118.63 ECC .29378 INC 1.0295 V1 30.058
 RP 107.63 LAP .95 LOP 92.66 VP 36.707 GAP 16.26 AZP 90.39 TAL 156.19 TAP 88.62 RCA 83.78 APO 153.48 V2 35.209
 RC 200.549 GL -4.51 GP -12.15 ZAL 50.34 ZAP 167.85 ETS 272.25 ZAE 131.85 ETE 190.92 ZAC 172.81 ETC 20.89 CLP 179.77

PLANETOCENTRIC CONIC

C3 34.110 VHL 5.840 CLA 17.48 RAL 110.99 RAD 6568.3 VEL 12.469 PTH 2.26 VHP 10.663 DPA 12.22 RAP 93.15 ECC 1.5614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 40 2923.21 -28.27 90.83 348.82 88.30 6 36 23 2323.2 -28.21 82.17
 90.00 22 31 0 4413.07 6.86 183.92 339.66 62.46 23 44 33 3813.1 3.12 177.24
 100.00 7 19 9 2628.15 -29.89 69.16 348.86 89.46 8 2 58 2028.1 -29.64 60.37
 100.00 23 42 11 4183.37 8.29 166.27 338.89 61.18 24 51 55 3583.4 4.38 159.66
 110.00 8 49 43 2344.83 -34.10 47.56 348.77 92.58 9 28 47 1744.8 -33.36 38.39
 110.00 0 32 3 4039.45 11.91 153.18 336.72 57.72 1 39 23 3439.5 7.57 146.78

DIFFERENTIAL CORRECTIONS

TDE-1.0120 TRA 4.3655 TC3-2.7609 BAU 1.2595
 RDE .3406 RRA .2732 RC3 -.0763 FAU .01284
 FDE -.3310 FRA 1.2380 FC3 -.3260 BSP 18393
 BDE 1.0678 BRA 4.3740 BC3 2.7620 FSP -400

MID-COURSE EXECUTION ACCURACY

SGT 5616.6 SGR 445.6 SG3 118.2
 RRT .4865 RRF .4647 RTF .9458
 SGB 5634.2 R23 .0027 R13 .9458
 SG1 5620.8 SG2 389.0 THA 2.22

ORBIT DETERMINATION ACCURACY

ST 1676.2 SR 344.6 SS 462.0
 CRT -.3772 CRS .4412 CST -.9970
 LSA 1743.5 MSA 319.1 SSA 14.5
 EL1 1681.4 EL2 318.1 ALF 175.40

LAUNCH DATE MAR 1 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 580.773

RL 148.24 LAL -0.00 LOL 160.24 VL 25.879 GAL 10.19 AZL 91.26 HCA 295.66 SMA 118.40 ECC .30466 INC 1.2582 V1 30.058
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.686 GAP 16.97 AZP 90.54 TAL 154.68 TAP 90.33 RCA 82.33 APO 154.48 V2 35.217
 RC 202.227 GL -5.16 GP -11.93 ZAL 48.03 ZAP 168.02 ETS 268.09 ZAE 131.84 ETE 190.71 ZAC 170.51 ETC 18.31 CLP 178.92

PLANETOCENTRIC CONIC

C3 38.678 VHL 6.219 CLA 16.49 RAL 113.33 RAD 6568.5 VEL 12.651 PTH 2.30 VHP 11.087 DPA 12.50 RAP 95.53 ECC 1.6365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 44 2917.63 -28.28 90.42 353.17 88.50 6 55 22 2317.6 -28.19 81.76
 90.00 22 30 34 4482.16 9.02 187.86 343.77 63.04 23 45 16 3882.2 5.33 181.12
 100.00 7 37 23 2625.34 -29.89 68.96 353.20 89.57 8 21 8 2025.3 -29.63 60.16
 100.00 23 42 37 4249.67 10.44 170.01 343.02 61.83 24 53 27 3649.7 6.60 163.33
 110.00 9 6 11 2347.51 -34.11 47.77 353.12 92.46 9 45 18 1747.5 -33.39 38.60
 110.00 0 34 14 4100.28 14.10 156.53 340.87 58.53 1 42 35 3500.3 9.83 150.03

DIFFERENTIAL CORRECTIONS

TDE-1.2162 TRA 4.8057 TC3-2.3984 BAU 1.2406
 RDE .3510 RRA .2872 RC3 -.0626 FAU .01152
 FDE -.3668 FRA 1.2996 FC3 -.2578 BSP 18437
 BDE 1.2658 BRA 4.8143 BC3 2.3992 FSP -390

MID-COURSE EXECUTION ACCURACY

SGT 5610.1 SGR 432.2 SG3 115.1
 RRT .4718 RRF .4518 RTF .9497
 SGB 5626.7 R23 .0019 R13 .9497
 SG1 5613.8 SG2 380.8 THA 2.09

ORBIT DETERMINATION ACCURACY

ST 1783.8 SR 333.8 SS 483.3
 CRT -.4156 CRS .4646 CST -.9981
 LSA 1853.3 MSA 303.3 SSA 13.7
 EL1 1789.4 EL2 302.7 ALF 175.42

LAUNCH DATE MAR 1 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 585.427

RL 148.24 LAL -0.00 LOL 160.24 VL 25.839 GAL 11.25 AZL 91.50 HCA 298.89 SMA 118.18 ECC .31666 INC 1.4999 V1 30.058
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.665 GAP 17.75 AZP 90.72 TAL 153.21 TAP 92.10 RCA 80.76 APO 155.61 V2 35.225
 RC 203.880 GL -5.73 GP -11.73 ZAL 45.90 ZAP 168.11 ETS 263.72 ZAE 131.81 ETE 190.50 ZAC 168.21 ETC 16.75 CLP 178.05

PLANETOCENTRIC CONIC

C3 44.079 VHL 6.639 CLA 15.56 RAL 115.49 RAD 6568.7 VEL 12.863 PTH 2.34 VHP 11.553 DPA 12.73 RAP 97.91 ECC 1.7254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 24 8 2916.61 -28.28 90.35 357.45 88.54 7 12 44 2316.6 -28.19 81.69
 90.00 22 30 22 4549.13 11.06 191.72 347.86 63.77 23 46 11 3949.1 7.44 184.90
 100.00 7 54 1 2626.72 -29.89 69.06 357.49 89.52 8 37 48 2026.7 -29.64 60.26
 100.00 23 43 9 4314.26 12.49 173.71 347.12 62.62 24 55 4 3714.3 8.73 166.94
 110.00 9 21 17 2353.69 -34.12 48.25 357.41 92.18 10 0 31 1753.7 -33.44 39.07
 110.00 0 36 19 4160.05 16.20 159.90 345.00 59.48 1 45 39 3560.1 12.03 153.27

DIFFERENTIAL CORRECTIONS

TDE-1.4274 TRA 5.2766 TC3-2.0588 BAU 1.2136
 RDE .3628 RRA .2998 RC3 -.0501 FAU .01016
 FDE -.4014 FRA 1.3658 FC3 -.1996 BSP 18373
 BDE 1.4728 BRA 5.2851 BC3 2.0595 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 5597.7 SGR 417.8 SG3 112.2
 RRT .4555 RRF .4380 RTF .9537
 SGB 5613.3 R23 .0019 R13 .9538
 SG1 5600.9 SG2 371.7 THA 1.96

ORBIT DETERMINATION ACCURACY

ST 1880.2 SR 323.3 SS 503.8
 CRT -.4463 CRS .4833 CST -.9988
 LSA 1951.9 MSA 288.8 SSA 13.0
 EL1 1885.8 EL2 288.4 ALF 175.51

LAUNCH DATE MAR 1 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 589.882

RL 148.24 LAL -0.00 LOL 160.24 VL 25.799 GAL 12.40 AZL 91.76 HCA 302.12 SMA 117.97 ECC .32996 INC 1.7572 V1 30.058
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.643 GAP 18.61 AZP 90.93 TAL 151.81 TAP 93.93 RCA 79.05 APO 156.90 V2 35.232
 RC 205.508 GL -6.24 GP -11.54 ZAL 43.93 ZAP 168.12 ETS 259.18 ZAE 131.74 ETE 190.30 ZAC 165.94 ETC 15.71 CLP 177.15

PLANETOCENTRIC CONIC

C3 50.481 VHL 7.105 CLA 14.69 RAL 117.46 RAD 6568.9 VEL 13.109 PTH 2.39 VHP 12.069 DPA 12.90 RAP 100.26 ECC 1.8308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 39 56 2919.68 -28.28 90.57 351.16 88.43 7 28 36 2319.7 -28.20 81.91
 90.00 22 30 19 4613.99 12.98 195.51 351.91 64.61 23 47 13 4014.0 9.46 188.60
 100.00 8 9 11 2631.87 -29.89 69.44 351.69 89.32 8 53 3 2031.9 -29.66 60.64
 100.00 23 43 45 4377.04 14.43 177.36 351.19 63.53 24 56 42 3777.0 10.76 170.50
 110.00 9 35 5 2363.06 -34.14 48.98 351.16 91.74 10 14 28 1763.1 -33.53 39.79
 110.00 0 38 16 4218.61 18.19 163.27 349.11 60.55 1 48 34 3618.6 14.13 156.51

DIFFERENTIAL CORRECTIONS

TDE-1.6534 TRA 5.7759 TC3-1.7515 BAU 1.1823
 RDE .3755 RRA .3100 RC3 -.0392 FAU .00887
 FDE -.4374 FRA 1.4350 FC3 -.1521 BSP 18410
 BDE 1.6955 BRA 5.7843 BC3 1.7519 FSP -370

MID-COURSE EXECUTION ACCURACY

SGT 5582.0 SGR 402.0 SG3 109.4
 RRT .4364 RRF .4214 RTF .9580
 SGB 5596.5 R23 .0017 R13 .9580
 SG1 5584.8 SG2 361.5 THA 1.81

ORBIT DETERMINATION ACCURACY

ST 1967.3 SR 312.6 SS 524.7
 CRT -.4742 CRS .5020 CST -.9992
 LSA 2041.5 MSA 274.6 SSA 12.3
 EL1 1973.0 EL2 274.4 ALF 175.61

LAUNCH DATE MAR 1 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 594.094

RL 148.24 LAL -1.00 LOL 160.24 VL 25.761 GAL 13.64 AZL 92.03 HCA 305.36 SMA 117.76 ECC .34472 INC 2.0334 V1 30.058
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.622 GAP 19.56 AZP 91.18 TAL 150.48 TAP 95.84 RCA 77.17 APO 158.36 V2 35.238
 RC 207.111 GL -6.69 GP -11.36 ZAL 42.13 ZAP 168.03 ETS 254.52 ZAE 131.63 ETE 190.10 ZAC 163.69 ETC 14.97 CLP 176.21

PLANETOCENTRIC CONIC

C3 58.096 VHL 7.622 DLA 13.90 RAL 119.26 RAD 6569.1 VEL 13.396 PTH 2.45 VHP 12.641 DPA 13.01 RAP 102.58 ECC 1.9561
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 15 2926.40 -28.26 91.06 5.76 88.18 7 43 1 2326.4 -28.22 82.40
 90.00 22 30 23 4676.69 14.78 199.23 355.92 65.57 23 48 19 4076.7 11.36 192.23
 100.00 8 22 56 2640.38 -29.88 70.07 5.81 88.98 9 6 57 2040.4 -29.70 61.27
 100.00 23 44 23 4437.93 16.24 180.98 355.21 64.56 24 58 21 3837.9 12.68 173.99
 110.00 9 47 39 2375.30 -34.17 49.94 5.80 91.18 10 27 15 1775.3 -33.62 40.73
 110.00 0 40 5 4275.78 20.07 166.64 353.17 61.73 1 51 21 3675.8 16.14 159.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8906 TRA 6.3121 TC3-1.4704 BAU 1.1422 SGT 5562.0 SGR 385.1 SG3 106.6 ST 2043.1 SR 302.0 SS 545.8
 RDE .3896 RRA .3177 RC3 -.0296 FAU .00755 RRT .4143 RRF .4021 RTF .9622 CRT -.4989 CRS .5192 CST -.9995
 FDE -.4736 FRA 1.5097 FC3 -.1124 BSP 18419 SGB 5575.3 R23 .0020 R13 .9622 LSA 2120.2 MSA 261.1 SSA 11.6
 BDE 1.9303 BRA 6.3200 BC3 1.4707 FSP -361 SG1 5564.3 SG2 350.4 THA 1.65 EL1 2048.8 EL2 261.0 ALF 175.71

LAUNCH DATE MAR 1 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 598.010

RL 148.24 LAL -1.00 LOL 160.24 VL 25.724 GAL 14.99 AZL 92.33 HCA 308.60 SMA 117.56 ECC .36116 INC 2.3329 V1 30.058
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.601 GAP 20.62 AZP 91.46 TAL 149.24 TAP 97.84 RCA 75.10 APO 160.02 V2 35.243
 RC 208.690 GL -7.09 GP -11.20 ZAL 40.50 ZAP 167.83 ETS 249.79 ZAE 131.47 ETE 189.90 ZAC 161.49 ETC 14.43 CLP 175.23

PLANETOCENTRIC CONIC

C3 67.195 VHL 8.197 DLA 13.17 RAL 120.90 RAD 6569.3 VEL 13.731 PTH 2.51 VHP 13.280 DPA 13.08 RAP 104.86 ECC 2.1059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 7 9 2936.33 -28.24 91.79 9.76 87.82 7 56 5 2336.3 -28.24 83.13
 90.00 22 30 31 4737.09 16.45 202.89 359.85 66.62 23 49 28 4137.1 13.14 195.76
 100.00 8 35 21 2651.89 -29.86 70.93 9.82 88.53 9 19 33 2051.9 -29.74 62.13
 100.00 23 45 0 4496.77 17.93 184.53 359.17 65.67 24 59 57 3896.8 14.49 177.42
 110.00 9 59 1 2390.09 -34.18 51.09 9.86 90.49 10 38 51 1790.1 -33.73 41.88
 110.00 0 41 45 4331.33 21.82 169.99 357.18 63.01 1 53 56 3731.3 18.03 162.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.1411 TRA 6.8890 TC3-1.2154 BAU 1.0920 SGT 5537.6 SGR 367.3 SG3 104.0 ST 2108.1 SR 291.5 SS 567.7
 RDE .4051 RRA .3221 RC3 -.0215 FAU .00618 RRT .3883 RRF .3790 RTF .9665 CRT -.5220 CRS .5360 CST -.9997
 FDE -.5107 FRA 1.5907 FC3 -.0796 BSP 18413 SGB 5549.8 R23 .0025 R13 .9665 LSA 2188.5 MSA 248.1 SSA 11.0
 BDE 2.1791 BRA 6.8965 BC3 1.2156 FSP -352 SG1 5539.4 SG2 338.3 THA 1.48 EL1 2113.7 EL2 248.0 ALF 175.81

LAUNCH DATE MAR 1 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 601.562

RL 148.24 LAL -1.00 LOL 160.24 VL 25.688 GAL 16.48 AZL 92.66 HCA 311.83 SMA 117.37 ECC .37954 INC 2.6608 V1 30.058
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.581 GAP 21.80 AZP 91.78 TAL 148.11 TAP 99.94 RCA 72.82 APO 161.92 V2 35.248
 RC 210.244 GL -7.43 GP -11.05 ZAL 39.04 ZAP 167.53 ETS 245.03 ZAE 131.26 ETE 189.69 ZAC 159.33 ETC 14.02 CLP 174.19

PLANETOCENTRIC CONIC

C3 78.125 VHL 8.839 DLA 12.51 RAL 122.36 RAD 6569.5 VEL 14.124 PTH 2.57 VHP 13.995 DPA 13.10 RAP 107.09 ECC 2.2857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 18 40 2949.10 -28.20 92.72 13.64 87.35 8 7 50 2349.1 -28.27 84.06
 90.00 22 30 41 4795.03 17.98 206.45 3.70 67.75 23 50 36 4195.0 14.80 199.21
 100.00 8 46 27 2666.02 -29.83 71.98 13.71 87.98 9 30 53 2066.0 -29.79 63.17
 100.00 23 45 35 4553.33 19.48 188.02 3.04 66.87 25 1 29 3953.3 16.18 180.78
 110.00 10 9 12 2407.10 -34.18 52.42 13.82 89.71 10 49 19 1807.1 -33.84 43.19
 110.00 0 43 16 4385.02 23.44 173.32 1.11 64.38 1 56 21 3785.0 19.80 166.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.4026 TRA 7.5165 TC3 -.9831 BAU 1.0270 SGT 5509.5 SGR 348.6 SG3 101.5 ST 2161.0 SR 281.3 SS 590.3
 RDE .4225 RRA .3226 RC3 -.0146 FAU .00469 RRT .3577 RRF .3516 RTF .9707 CRT -.5433 CRS .5521 CST -.9998
 FDE -.5482 FRA 1.6803 FC3 -.0519 BSP 18301 SGB 5520.5 R23 .0034 R13 .9707 LSA 2245.5 MSA 235.6 SSA 10.4
 BDE 2.4395 BRA 7.5234 BC3 .9832 FSP -342 SG1 5510.9 SG2 325.5 THA 1.30 EL1 2166.5 EL2 235.6 ALF 175.91

LAUNCH DATE MAR 1 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 604.657

RL 148.24 LAL -1.00 LOL 160.24 VL 25.654 GAL 18.12 AZL 93.02 HCA 315.07 SMA 117.19 ECC .40017 INC 3.0237 V1 30.058
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.561 GAP 23.13 AZP 92.14 TAL 147.11 TAP 102.18 RCA 70.29 APO 164.09 V2 35.252
 RC 211.773 GL -7.73 GP -10.91 ZAL 37.74 ZAP 167.11 ETS 240.30 ZAE 130.98 ETE 189.47 ZAC 157.23 ETC 13.70 CLP 173.09

PLANETOCENTRIC CONIC

C3 91.341 VHL 9.557 DLA 11.92 RAL 123.66 RAD 6569.8 VEL 14.584 PTH 2.64 VHP 14.801 DPA 13.08 RAP 109.26 ECC 2.5032
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 28 51 2964.33 -28.15 93.83 17.36 86.80 8 18 15 2364.3 -28.30 85.17
 90.00 22 30 50 4850.25 19.36 209.91 7.43 68.93 23 51 41 4250.2 16.33 202.55
 100.00 8 56 15 2682.44 -29.78 73.20 17.46 87.34 9 40 57 2082.4 -29.84 64.39
 100.00 23 46 7 4607.37 20.89 191.41 6.79 68.12 25 2 54 4007.4 17.73 184.04
 110.00 10 18 12 2426.02 -34.17 53.90 17.63 88.83 10 58 38 1826.0 -33.95 44.66
 110.00 0 44 36 4436.56 24.92 176.59 4.93 65.81 1 58 32 3836.6 21.44 169.17

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.6863 TRA 8.1917 TC3 -.7772 BAU .9492 SGT 5476.5 SGR 329.2 SG3 99.0 ST 2205.2 SR 271.2 SS 615.2
 RDE .4418 RRA .3178 RC3 -.0090 FAU .00313 RRT .3198 RRF .3168 RTF .9748 CRT -.5661 CRS .5704 CST -.9998
 FDE -.5889 FRA 1.7775 FC3 -.0297 BSP 18290 SGB 5486.4 R23 .0043 R13 .9748 LSA 2294.5 MSA 223.0 SSA 9.8
 BDE 2.7224 BRA 8.1979 BC3 .7773 FSP -334 SG1 5477.5 SG2 311.9 THA 1.10 EL1 2210.6 EL2 223.0 ALF 175.98

LAUNCH DATE MAR 1 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 607.182

RL 148.24 LAL -.00 LOL 160.24 VL 25.621 GAL 19.95 AZL 93.43 HCA 318.30 SMA 117.02 ECC .42339 INC 3.4304 V1 30.058
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.541 GAP 24.64 AZP 92.56 TAL 146.27 TAP 104.57 RCA 67.47 APO 166.56 V2 35.255
 RC 213.276 GL -7.99 GP -10.78 ZAL 36.63 ZAP 166.55 ETS 235.63 ZAE 130.62 ETE 189.24 ZAC 155.21 ETC 13.46 CLP 171.92

PLANETOCENTRIC CONIC

C3 107.435 VHL 10.365 DLA 11.40 RAL 124.78 RAD 6570.1 VEL 15.125 PTH 2.72 VHP 15.715 DPA 13.03 RAP 111.35 ECC 2.7681
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 37 39 2981.71 -28.08 95.10 20.91 86.17 8 27 21 2381.7 -28.31 86.44
 90.00 22 30 58 4902.44 20.61 213.23 11.00 70.14 23 52 40 4302.4 17.72 205.75
 100.00 9 4 44 2700.83 -29.72 74.56 21.03 86.63 9 49 45 2100.8 -29.87 65.76
 100.00 23 46 33 4658.56 22.15 194.69 10.39 69.40 25 4 12 4058.6 19.15 187.18
 110.00 10 26 0 2446.56 -34.13 55.50 21.27 87.89 11 6 47 1846.6 -34.04 46.26
 110.00 0 45 43 4485.60 26.25 179.78 8.61 67.28 2 0 29 3885.6 22.94 172.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.9889 TRA 8.9275 TC3 -.5931 BAU .8519 SGT 5439.1 SGR 309.3 SG3 96.7 ST 2238.7 SR 261.5 SS 642.3
 RDE .4636 RRA .3068 RC3 -.0047 FAU .00140 RRT .2732 RRF .2733 RTF .9786 CRT -.5894 CRS .5900 CST -.9999
 FDE -.6320 FRA 1.8854 FC3 -.0113 BSP 18247 SGB 5447.9 R23 .0054 R13 .9786 LSA 2334.2 MSA 210.7 SSA 9.3
 BDE 3.0246 BRA 8.9327 BC3 .5931 FSP -326 SG1 5439.8 SG2 297.5 THA .89 EL1 2244.1 EL2 210.7 ALF 176.03

LAUNCH DATE MAR 1 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 608.981

RL 148.24 LAL -.00 LOL 160.24 VL 25.591 GAL 21.99 AZL 93.89 HCA 321.54 SMA 116.86 ECC .44964 INC 3.8921 V1 30.058
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.522 GAP 26.35 AZP 93.05 TAL 145.61 TAP 107.15 RCA 64.31 APO 169.40 V2 35.258
 RC 214.754 GL -8.21 GP -10.65 ZAL 35.69 ZAP 165.86 ETS 231.06 ZAE 130.16 ETE 188.99 ZAC 153.28 ETC 13.28 CLP 170.64

PLANETOCENTRIC CONIC

C3 127.195 VHL 11.278 DLA 10.95 RAL 125.71 RAD 6570.3 VEL 15.765 PTH 2.80 VHP 16.756 DPA 12.96 RAP 113.35 ECC 3.0933
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 45 3 3000.96 -27.98 96.50 24.24 85.47 8 35 4 2401.0 -28.32 87.85
 90.00 22 31 2 4951.24 21.70 216.39 14.38 71.35 23 53 33 4351.2 18.96 208.79
 100.00 9 11 53 2720.92 -29.63 76.05 24.39 85.85 9 57 14 2120.9 -29.89 67.25
 100.00 23 46 53 4706.51 23.27 197.81 13.80 70.68 25 5 19 4106.5 20.42 190.18
 110.00 10 32 34 2468.45 -34.06 57.21 24.72 86.88 11 13 42 1868.5 -34.11 47.96
 110.00 0 46 37 4531.75 27.43 182.85 12.10 68.75 2 2 9 3931.7 24.29 175.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.3123 TRA 9.7322 TC3 -.4293 BAU .7300 SGT 5397.2 SGR 289.4 SG3 94.5 ST 2261.6 SR 252.1 SS 672.4
 RDE .4884 RRA .2879 RC3 -.0016 FAU-.00060 RRT .2152 RRF .2183 RTF .9822 CRT -.6139 CRS .6112 CST -.9999
 FDE -.6782 FRA 2.0062 FC3 .0041 BSP 18185 SGB 5405.0 R23 .0065 R13 .9822 LSA 2364.5 MSA 198.7 SSA 8.7
 BDE 3.3482 BRA 9.7364 BC3 .4293 FSP -319 SG1 5397.6 SG2 282.6 THA .66 EL1 2267.0 EL2 198.6 ALF 176.05

LAUNCH DATE MAR 1 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 609.854

RL 148.24 LAL -.00 LOL 160.24 VL 25.563 GAL 24.29 AZL 94.42 HCA 324.77 SMA 116.71 ECC .47940 INC 4.4247 V1 30.058
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.504 GAP 28.31 AZP 93.62 TAL 145.19 TAP 109.96 RCA 60.76 APO 172.66 V2 35.259
 RC 216.204 GL -8.39 GP -10.53 ZAL 34.96 ZAP 165.00 ETS 226.62 ZAE 129.58 ETE 188.72 ZAC 151.46 ETC 13.16 CLP 169.26

PLANETOCENTRIC CONIC

C3 151.679 VHL 12.316 DLA 10.59 RAL 126.45 RAD 6570.6 VEL 16.523 PTH 2.88 VHP 17.951 DPA 12.87 RAP 115.23 ECC 3.4962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 50 58 3021.87 -27.86 98.02 27.33 84.72 8 41 20 2421.9 -28.30 89.38
 90.00 22 30 59 4996.18 22.65 219.34 17.51 72.54 23 54 15 4396.2 20.05 211.64
 100.00 9 17 35 2742.50 -29.51 77.64 27.50 85.02 10 3 17 2142.5 -29.89 68.86
 100.00 23 47 3 4750.78 24.23 200.75 16.96 71.94 25 6 14 4150.8 21.54 192.99
 110.00 10 37 48 2491.48 -33.96 59.00 27.92 85.82 11 19 19 1891.5 -34.16 49.76
 110.00 0 47 15 4574.56 28.45 185.77 15.35 70.20 2 3 30 3974.6 25.49 177.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.6565 TRA10.6176 TC3 -.2838 BAU .5755 SGT 5351.1 SGR 270.0 SG3 92.4 ST 2273.1 SR 243.4 SS 705.9
 RDE .5171 RRA .2591 RC3 .0004 FAU-.00298 RRT .1428 RRF .1487 RTF .9855 CRT -.6395 CRS .6342 CST -.9999
 FDE -.7277 FRA 2.1426 FC3 .0170 BSP 18019 SGB 5357.9 R23 .0077 R13 .9855 LSA 2385.2 MSA 186.9 SSA 8.1
 BDE 3.6929 BRA10.6207 BC3 .2838 FSP -310 SG1 5351.2 SG2 267.3 THA .41 EL1 2278.4 EL2 186.7 ALF 176.06

LAUNCH DATE MAR 1 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 609.529

RL 148.24 LAL -.00 LOL 160.24 VL 25.538 GAL 26.91 AZL 95.05 HCA 328.00 SMA 116.58 ECC .51323 INC 5.0497 V1 30.058
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.488 GAP 30.58 AZP 94.29 TAL 145.06 TAP 113.05 RCA 56.75 APO 176.41 V2 35.260
 RC 217.629 GL -8.54 GP -10.40 ZAL 34.44 ZAP 163.96 ETS 222.32 ZAE 128.86 ETE 188.41 ZAC 149.78 ETC 13.08 CLP 167.72

PLANETOCENTRIC CONIC

C3 182.311 VHL 13.502 DLA 10.32 RAL 126.96 RAD 6571.0 VEL 17.425 PTH 2.96 VHP 19.329 DPA 12.77 RAP 116.96 ECC 4.0004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 55 16 3044.29 -27.71 99.64 30.12 83.92 8 46 0 2444.3 -28.26 91.02
 90.00 22 30 48 5036.74 23.45 222.04 20.34 73.66 23 54 45 4436.7 20.99 214.24
 100.00 9 21 43 2765.43 -29.37 79.33 30.32 84.14 10 7 49 2165.4 -29.87 70.56
 100.00 23 47 1 4790.83 25.05 203.44 19.81 73.13 25 6 52 4190.8 22.50 195.57
 110.00 10 41 35 2515.50 -33.82 60.86 30.83 84.73 11 23 31 1915.5 -34.18 51.63
 110.00 0 47 35 4613.53 29.32 188.46 18.29 71.58 2 4 29 4013.5 26.52 180.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-4.0301 TRA11.5851 TC3 -.1574 BAU .3836 SGT 5298.4 SGR 251.9 SG3 90.5 ST 2274.2 SR 235.3 SS 744.3
 RDE .5506 RRA .2178 RC3 .0013 FAU-.00583 RRT .0512 RRF .0595 RTF .9885 CRT -.6676 CRS .6602 CST -.9999
 FDE -.7829 FRA 2.2959 FC3 .0277 BSP 17941 SGB 5304.4 R23 .0087 R13 .9885 LSA 2398.0 MSA 175.1 SSA 7.5
 BDE 4.0675 BRA11.5872 BC3 .1574 FSP -304 SG1 5298.5 SG2 251.5 THA .14 EL1 2279.6 EL2 174.8 ALF 176.02

LAUNCH DATE MAR 2 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 11 1969

HELIOCENTRIC CONIC

DISTANCE 196.996

RL 148.27 LAL -0.00 LOL 161.24 VL 28.320 GAL -11.59 AZL 89.64 MCA 89.15 SMA 134.30 ECC .22529 INC .3555 V1 30.050
 RP 108.57 LAP .36 LOP 250.39 VP 38.167 GAP -6.93 AZP 89.99 TAL 231.52 TAP 320.68 RCA 104.05 APO 164.56 V2 34.906
 RC 61.981 GL 1.51 GP 21.65 ZAL 159.29 ZAP 37.36 ETS 331.53 ZAE 148.74 ETE 34.30 ZAC 122.18 ETC 148.66 CLP -31.21

PLANETOCENTRIC CONIC

C3 42.763 VHL 6.539 OLA 2.14 RAL 1.14 RAD 6568.6 VEL 12.811 PTH 2.33 VHP 6.056 DPA 32.61 RAP 28.41 ECC 1.7038
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 32 19 2469.49 -24.83 58.30 236.32 104.07 1 13 28 1869.5 -22.65 50.30
 90.00 13 2 3 4980.98 22.34 218.34 234.81 72.13 14 25 4 4381.0 19.69 210.67
 100.00 1 54 39 2203.91 -26.12 38.39 235.95 105.08 2 31 23 1603.9 -23.80 30.37
 100.00 14 22 24 4721.79 23.61 198.82 234.35 71.11 15 41 5 4121.8 20.81 191.14
 110.00 3 5 11 1983.16 -29.61 20.47 234.78 107.92 3 38 14 1383.2 -26.87 12.35
 110.00 15 28 21 4515.31 27.02 181.75 232.95 68.22 16 43 37 3915.3 23.82 174.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1578 TRA -.3385 TC3 .2806 BAU .2109 SGT 491.8 SGR 514.4 SG3 166.3 ST 164.8 SR 298.3 SS 289.9
 RDE -.3253 RRA .3333 RC3 .2394 FAU .06522 RRT .2670 RRF -.5984 RTF -.3822 CRT .6447 CRS -.7735 CST -.9684
 FDE -.5854 FRA -.7727 FC3-1.3205 BSP 1399 SGB 711.7 R23 -.1286 R13 -.6284 LSA 417.3 MSA 159.5 SSA 25.5
 BDE .3615 BRA .4751 BC3 .3689 FSP -453 SG1 567.3 SG2 429.8 THA 49.77 EL1 319.9 EL2 117.5 ALF 67.14

LAUNCH DATE MAR 2 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 203.690

RL 148.27 LAL -0.00 LOL 161.24 VL 28.395 GAL -11.48 AZL 89.83 MCA 92.33 SMA 134.89 ECC .22157 INC .1673 V1 30.050
 RP 108.60 LAP .17 LOP 253.57 VP 38.213 GAP -6.17 AZP 90.01 TAL 232.50 TAP 324.82 RCA 105.01 APO 164.78 V2 34.894
 RC 64.032 GL .72 GP 23.06 ZAL 159.93 ZAP 41.21 ETS 333.77 ZAE 148.94 ETE 38.70 ZAC 120.81 ETC 148.47 CLP -35.15

PLANETOCENTRIC CONIC

C3 41.904 VHL 6.473 OLA 1.18 RAL .91 RAD 6568.6 VEL 12.778 PTH 2.32 VHP 5.724 DPA 33.60 RAP 26.95 ECC 1.6896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 38 30 2434.67 -24.23 55.92 235.35 105.12 1 19 5 1834.7 -21.92 48.01
 90.00 12 54 1 5005.57 22.84 219.97 234.52 72.79 14 17 27 4405.6 20.27 212.24
 100.00 2 0 23 2170.52 -25.51 36.10 234.96 106.14 2 36 34 1570.5 -23.05 28.17
 100.00 14 14 49 4744.95 24.11 200.36 234.08 71.77 15 33 54 4144.9 21.39 192.62
 110.00 3 9 54 1952.97 -28.96 18.36 233.73 109.01 3 42 27 1353.0 -26.09 10.35
 110.00 15 21 48 4535.26 27.51 183.09 232.73 68.87 16 37 23 3935.3 24.39 175.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1566 TRA -.3506 TC3 .2672 BAU .2153 SGT 485.0 SGR 544.1 SG3 185.3 ST 167.3 SR 283.6 SS 322.5
 RDE -.3024 RRA .3508 RC3 .2763 FAU .07146 RRT .2442 RRF -.6488 RTF -.3276 CRT .6013 CRS -.7618 CST -.9620
 FDE -.6871 FRA -.8594 FC3-1.4763 BSP 1441 SGB 728.9 R23 -.1243 R13 -.6602 LSA 429.5 MSA 165.0 SSA 25.5
 BDE .3405 BRA .4960 BC3 .3844 FSP -512 SG1 580.4 SG2 440.9 THA 57.63 EL1 304.9 EL2 124.3 ALF 66.29

LAUNCH DATE MAR 2 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 210.349

RL 148.27 LAL -0.00 LOL 161.24 VL 28.458 GAL -11.38 AZL 90.02 MCA 95.50 SMA 135.38 ECC .21834 INC .0121 V1 30.050
 RP 108.64 LAP -.02 LOP 256.74 VP 38.249 GAP -5.44 AZP 90.00 TAL 233.31 TAP 328.81 RCA 105.82 APO 164.94 V2 34.883
 RC 66.131 GL -.09 GP 24.56 ZAL 160.42 ZAP 45.26 ETS 335.94 ZAE 149.14 ETE 43.69 ZAC 119.24 ETC 148.43 CLP -39.30

PLANETOCENTRIC CONIC

C3 41.141 VHL 6.414 OLA .24 RAL .79 RAD 6568.6 VEL 12.748 PTH 2.32 VHP 5.428 DPA 34.57 RAP 25.21 ECC 1.6771
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 57 2401.00 -23.61 53.65 234.56 106.10 1 24 58 1801.0 -21.18 45.82
 90.00 12 46 35 5029.97 23.32 221.59 234.39 73.47 14 10 25 4430.0 20.84 213.80
 100.00 2 6 24 2138.25 -24.88 33.91 234.14 107.13 2 42 3 1538.3 -22.30 26.06
 100.00 14 7 49 4767.95 24.59 201.90 233.96 72.44 15 27 17 4167.9 21.96 194.09
 110.00 3 14 55 1923.83 -28.29 16.35 232.86 110.03 3 46 58 1323.8 -25.30 8.45
 110.00 15 15 48 4555.14 28.00 184.44 232.65 69.53 16 31 43 3955.1 24.95 176.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1575 TRA -.3671 TC3 .2471 BAU .2211 SGT 477.3 SGR 578.9 SG3 205.6 ST 172.0 SR 266.0 SS 357.0
 RDE -.2760 RRA .3694 RC3 .3171 FAU .07801 RRT .2005 RRF -.6967 RTF -.2546 CRT .5482 CRS -.7424 CST -.9548
 FDE -.8002 FRA -.9480 FC3-1.6416 BSP 1523 SGB 750.3 R23 -.1004 R13 -.6994 LSA 445.5 MSA 169.4 SSA 25.5
 BDE .3178 BRA .5208 BC3 .4020 FSP -581 SG1 598.9 SG2 452.0 THA 67.05 EL1 287.4 EL2 133.1 ALF 64.69

LAUNCH DATE MAR 2 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 216.971

RL 148.27 LAL -0.00 LOL 161.24 VL 28.508 GAL -11.29 AZL 90.21 MCA 98.68 SMA 135.78 ECC .21553 INC .2104 V1 30.050
 RP 108.67 LAP -.21 LOP 259.92 VP 38.277 GAP -4.75 AZP 89.97 TAL 233.96 TAP 332.63 RCA 106.51 APO 165.04 V2 34.873
 RC 68.274 GL -.93 GP 26.12 ZAL 160.78 ZAP 49.50 ETS 338.08 ZAE 149.27 ETE 49.27 ZAC 117.46 ETC 148.56 CLP -43.67

PLANETOCENTRIC CONIC

C3 40.453 VHL 6.360 OLA -.68 RAL .77 RAD 6568.6 VEL 12.721 PTH 2.31 VHP 5.169 DPA 35.49 RAP 23.18 ECC 1.6657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 51 42 2368.23 -22.98 51.46 233.92 107.02 1 31 10 1768.2 -20.43 43.71
 90.00 12 39 42 5054.22 23.78 223.22 234.39 74.16 14 3 56 4454.2 21.38 215.37
 100.00 2 12 44 2106.86 -24.23 31.80 233.49 108.06 2 47 50 1506.9 -21.54 24.04
 100.00 14 1 21 4790.82 25.05 203.44 233.98 73.13 15 21 12 4190.8 22.50 195.57
 110.00 3 20 15 1895.50 -27.62 14.42 232.15 110.99 3 51 50 1295.5 -24.51 6.63
 110.00 15 10 19 4574.95 28.46 185.79 232.72 70.21 16 26 34 3974.9 25.50 177.87

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1639 TRA -.3910 TC3 .2170 BAU .2277 SGT 471.2 SGR 618.2 SG3 226.0 ST 181.8 SR 246.2 SS 391.4
 RDE -.2468 RRA .3879 RC3 .3608 FAU .08454 RRT .1251 RRF -.7399 RTF -.1508 CRT .4887 CRS -.7135 CST -.9488
 FDE -.9191 FRA -1.0309 FC3-1.8092 BSP 1600 SGB 777.3 R23 -.0594 R13 -.7398 LSA 465.3 MSA 172.3 SSA 25.4
 BDE .2963 BRA .5507 BC3 .4210 FSP -647 SG1 624.6 SG2 462.8 THA 77.77 EL1 269.6 EL2 144.8 ALF 61.12

LAUNCH DATE MAR 2 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 223.556

RL 148.27 LAL -.00 LOL 161.24 VL 28.547 GAL -11.19 AZL 90.40 HCA 101.85 SMA 136.08 ECC .21306 INC .4043 V1 30.050
 RP 108.70 LAP -.40 LOP 263.09 VP 38.296 GAP -4.10 AZP 89.92 TAL 234.45 TAP 336.30 RCA 107.09 APO 165.08 V2 34.862
 RC 70.456 GL -1.80 GP 27.74 ZAL 161.01 ZAP 53.90 ETS 340.27 ZAE 149.25 ETE 55.41 ZAC 115.51 ETC 148.86 CLP -48.27

PLANETOCENTRIC CONIC

C3 39.823 VHL 6.311 OLA -1.59 RAL .85 RAD 6568.5 VEL 12.696 PTH 2.31 VHP 4.946 DPA 36.37 RAP 20.89 ECC 1.6554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIME INJ 2 LAT INJ 2 LONG
 90.00 0 58 46 2336.09 -22.32 49.33 233.43 107.89 1 37 43 1736.1 -19.67 41.66
 90.00 12 33 18 5078.43 24.22 224.86 234.52 74.87 13 57 56 4478.4 21.91 216.95
 100.00 2 19 23 2076.08 -23.57 29.76 232.98 108.94 2 53 59 1476.1 -20.77 22.08
 100.00 13 55 23 4813.67 25.49 205.00 234.13 73.84 15 15 36 4213.7 23.03 197.06
 110.00 3 25 56 1867.75 -26.93 12.56 231.60 111.90 3 57 4 1267.8 -23.71 4.87
 110.00 15 5 19 4594.77 28.91 187.16 232.91 70.91 16 21 54 3994.8 26.03 179.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1753 TRA -.4212 TC3 .1776 BAU .2366 SGT 471.1 SGR 661.9 S63 246.3 ST 196.4 SR 224.5 SS 425.8
 RDE -.2145 RRA .4058 RC3 .4074 FAU .09090 RRT .0168 RRF -.7781 RTF -.0179 CRT .4177 CRS -.6703 CST -.9445
 FDE -1.0429 FRA -1.1059 FC3 -1.9762 BSP 1710 SGB 812.5 R23 -.0085 R13 -.7780 LSA 489.4 MSA 173.6 SSA 25.3
 BDE .2770 BRA .5849 BC3 .4444 FSP -713 SG1 662.0 SG2 471.0 THA 88.61 EL1 252.6 EL2 158.5 ALF 53.91

LAUNCH DATE MAR 2 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 230.103

RL 148.27 LAL -.00 LOL 161.24 VL 28.575 GAL -11.10 AZL 90.60 HCA 105.02 SMA 136.31 ECC .21086 INC .6021 V1 30.050
 RP 108.73 LAP -.58 LOP 266.26 VP 38.309 GAP -3.48 AZP 89.84 TAL 234.80 TAP 339.81 RCA 107.57 APO 165.05 V2 34.853
 RC 72.672 GL -2.70 GP 29.39 ZAL 161.09 ZAP 58.44 ETS 342.54 ZAE 149.02 ETE 62.02 ZAC 113.39 ETC 149.35 CLP -53.08

PLANETOCENTRIC CONIC

C3 39.239 VHL 6.264 OLA -2.49 RAL 1.04 RAD 6568.5 VEL 12.673 PTH 2.30 VHP 4.758 DPA 37.17 RAP 18.34 ECC 1.6458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIME INJ 2 LAT INJ 2 LONG
 90.00 1 6 13 2304.31 -21.64 47.25 233.08 108.72 1 44 38 1704.3 -18.88 39.66
 90.00 12 27 19 5102.75 24.65 226.51 234.78 75.60 13 52 22 4502.8 22.43 218.55
 100.00 2 26 24 2045.66 -22.88 27.76 232.62 109.78 3 0 30 1445.7 -19.98 20.17
 100.00 13 49 49 4836.64 25.92 206.57 234.41 74.56 15 10 26 4236.6 23.55 198.57
 110.00 3 31 59 1840.36 -26.22 10.75 231.19 112.76 4 2 40 1240.4 -22.91 3.16
 110.00 15 0 44 4614.70 29.34 188.55 233.23 71.62 16 17 38 4014.7 26.55 180.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1917 TRA -.4571 TC3 .1291 BAU .2490 SGT 481.7 SGR 709.9 S63 266.1 ST 215.7 SR 201.1 SS 461.3
 RDE -.1785 RRA .4231 RC3 .4567 FAU .09699 RRT -.1196 RRF -.8114 RTF .1370 CRT .3255 CRS -.6036 CST -.9419
 FDE -1.1719 FRA -1.1721 FC3 -2.1398 BSP 1874 SGB 857.9 R23 .0391 R13 -.8115 LSA 518.7 MSA 173.3 SSA 25.1
 BDE .2619 BRA .6228 BC3 .4746 FSP -783 SG1 714.1 SG2 475.4 THA 98.37 EL1 240.7 EL2 170.4 ALF 38.93

LAUNCH DATE MAR 2 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 236.612

RL 148.27 LAL -.00 LOL 161.24 VL 28.594 GAL -11.00 AZL 90.81 HCA 108.18 SMA 136.46 ECC .20890 INC .8060 V1 30.050
 RP 108.76 LAP -.77 LOP 269.42 VP 38.314 GAP -2.88 AZP 89.75 TAL 235.00 TAP 343.18 RCA 107.95 APO 164.97 V2 34.844
 RC 74.919 GL -3.64 GP 31.05 ZAL 161.04 ZAP 63.07 ETS 344.92 ZAE 148.51 ETE 68.96 ZAC 111.16 ETC 150.01 CLP -58.09

PLANETOCENTRIC CONIC

C3 38.692 VHL 6.220 OLA -3.40 RAL 1.32 RAD 6568.5 VEL 12.652 PTH 2.30 VHP 4.605 DPA 37.89 RAP 15.59 ECC 1.6368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIME INJ 2 LAT INJ 2 LONG
 90.00 1 14 6 2272.60 -20.93 45.19 232.87 109.52 1 51 59 1672.6 -18.08 37.68
 90.00 12 21 41 5127.37 25.05 228.20 235.17 76.35 13 47 9 4527.4 22.93 220.18
 100.00 2 33 51 2015.32 -22.17 25.79 232.38 110.58 3 7 27 1415.3 -19.17 18.28
 100.00 13 44 37 4859.88 26.33 208.17 234.81 75.31 15 5 37 4259.9 24.05 200.11
 110.00 3 38 28 1813.08 -25.49 8.96 230.91 113.59 4 8 41 1213.1 -22.08 1.47
 110.00 14 56 30 4634.89 29.77 189.96 233.68 72.37 16 13 45 4034.9 27.07 181.82

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2156 TRA -.5001 TC3 .0695 BAU .2645 SGT 509.7 SGR 759.5 S63 283.9 ST 242.1 SR 178.1 SS 495.0
 RDE -.1402 RRA .4375 RC3 .5066 FAU .10226 RRT -.2740 RRF -.8391 RTF .3047 CRT .2073 CRS -.5045 CST -.9420
 FDE -1.2968 FRA -1.2196 FC3 -2.2881 BSP 2067 SGB 914.7 R23 .0768 R13 -.8392 LSA 552.6 MSA 171.5 SSA 24.9
 BDE .2572 BRA .6644 BC3 .5114 FSP -843 SG1 780.4 SG2 477.1 THA 106.90 EL1 247.6 EL2 170.3 ALF 16.80

LAUNCH DATE MAR 2 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 243.084

RL 148.27 LAL -.00 LOL 161.24 VL 28.604 GAL -10.90 AZL 91.02 HCA 111.35 SMA 136.54 ECC .20712 INC 1.0173 V1 30.050
 RP 108.78 LAP -.95 LOP 272.59 VP 38.314 GAP -2.32 AZP 89.63 TAL 235.06 TAP 346.41 RCA 108.26 APO 164.82 V2 34.835
 RC 77.194 GL -4.63 GP 32.71 ZAL 160.85 ZAP 67.75 ETS 347.44 ZAE 147.69 ETE 76.03 ZAC 108.84 ETC 150.83 CLP -63.26

PLANETOCENTRIC CONIC

C3 38.176 VHL 6.179 OLA -4.31 RAL 1.70 RAD 6568.5 VEL 12.631 PTH 2.29 VHP 4.486 DPA 38.51 RAP 12.68 ECC 1.6283
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIME INJ 2 LAT INJ 2 LONG
 90.00 1 22 28 2240.65 -20.19 43.14 232.78 110.28 1 59 49 1640.6 -17.25 35.70
 90.00 12 16 20 5152.54 25.45 229.94 235.67 77.14 13 42 13 4552.5 23.42 221.86
 100.00 2 41 47 1984.77 -21.43 23.82 232.28 111.36 3 14 52 1384.8 -18.33 16.39
 100.00 13 39 42 4883.65 26.73 209.83 235.33 76.09 15 1 6 4283.6 24.55 201.70
 110.00 3 45 24 1785.64 -24.73 7.19 230.77 114.39 4 15 9 1185.6 -21.23 359.80
 110.00 14 52 35 4655.54 30.19 191.43 234.25 73.14 16 10 11 4055.5 27.58 183.20

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2462 TRA -.5479 TC3 .0005 BAU .2844 SGT 558.3 SGR 810.8 S63 299.7 ST 274.8 SR 156.6 SS 529.0
 RDE -.0988 RRA .4494 RC3 .5573 FAU .10673 RRT -.4233 RRF -.8624 RTF .4604 CRT .0406 CRS -.3505 CST -.9438
 FDE -1.4196 FRA -1.2512 FC3 -2.4203 BSP 2320 SGB 984.4 R23 .1036 R13 -.8626 LSA 592.4 MSA 168.4 SSA 24.6
 BDE .2653 BRA .7086 BC3 .5573 FSP -903 SG1 861.7 SG2 475.9 THA 113.98 EL1 274.9 EL2 156.5 ALF 1.96

LAUNCH DATE MAR 2 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 249.519

RL 148.27 LAL -.00 LOL 161.24 VL 28.606 GAL -10.80 AZL 91.24 MCA 114.51 SMA 136.56 ECC .20549 INC 1.2378 V1 30.050
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.309 GAP -1.78 AZP 89.49 TAL 235.00 TAP 349.51 RCA 108.50 APO 164.62 V2 34.827
 RC 79.493 GL -5.67 GP 34.33 ZAL 160.53 ZAP 72.42 ETS 350.11 ZAE 146.53 ETE 83.01 ZAC 106.49 ETC 151.78 CLP -68.54

PLANETOCENTRIC CONIC

C3 37.687 VHL 6.139 DLA -5.24 RAL 2.17 RAD 6568.5 VEL 12.612 PTH 2.29 VHP 4.401 DPA 39.04 RAP 9.68 ECC 1.6202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 31 24 2208.12 -19.41 41.07 232.82 111.03 2 8 13 1608.1 -16.38 33.71
 90.00 12 11 11 5178.54 25.83 231.75 236.29 77.97 13 37 30 4578.5 23.91 223.61
 100.00 2 50 17 1953.70 -20.64 21.85 232.30 112.11 3 22 50 1353.7 -17.46 14.50
 100.00 13 35 0 4908.20 27.12 211.55 235.97 76.92 14 56 48 4308.2 25.05 203.36
 110.00 3 52 51 1757.78 -23.93 5.42 230.75 115.17 4 22 9 1157.8 -20.34 358.12
 110.00 14 48 55 4676.88 30.60 192.95 234.94 73.96 16 6 52 4076.9 28.10 184.65

DIFFERENTIAL CORRECTIONS

TDE -.2856 TRA -.6011 TC3 -.0790 BAU .3078
 RDE -.0562 RRA .4563 RC3 .6057 FAU .10983
 FDE -1.5291 FRA -1.2568 FC3 -2.5230 BSP 2604
 BOE .2911 BRA .7547 BC3 .6109 FSP -945

MID-COURSE EXECUTION ACCURACY

SGT 630.7 SGR 859.5 SG3 311.8
 RRT -.5517 RRF -.8811 RTF .5907
 SGB 1066.1 R23 .1232 R13 -.8814
 SG1 955.3 SG2 475.3 THA 120.16

ORBIT DETERMINATION ACCURACY

ST 315.6 SR 140.4 SS 560.2
 CRT -.1753 CRS -.1327 CST -.9472
 LSA 636.8 MSA 164.2 SSA 24.3
 EL1 316.8 EL2 137.7 ALF 174.50

LAUNCH DATE MAR 2 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 255.917

RL 148.27 LAL -.00 LOL 161.24 VL 28.601 GAL -10.70 AZL 91.47 MCA 117.67 SMA 136.52 ECC .20398 INC 1.4695 V1 30.050
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.298 GAP -1.27 AZP 89.32 TAL 234.81 TAP 352.48 RCA 108.67 APO 164.37 V2 34.820
 RC 81.813 GL -6.78 GP 35.90 ZAL 160.06 ZAP 77.02 ETS 352.93 ZAE 145.05 ETE 89.73 ZAC 104.15 ETC 152.84 CLP -73.90

PLANETOCENTRIC CONIC

C3 37.224 VHL 6.101 DLA -6.21 RAL 2.74 RAD 6568.5 VEL 12.593 PTH 2.28 VHP 4.348 DPA 39.49 RAP 6.66 ECC 1.6126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 1 2174.66 -18.58 38.97 232.99 111.76 2 17 16 1574.7 -15.46 31.68
 90.00 12 6 9 5205.76 26.20 233.66 237.05 78.85 13 32 54 4605.8 24.40 225.45
 100.00 2 59 25 1921.76 -19.81 19.84 232.45 112.85 3 31 26 1321.8 -16.54 12.57
 100.00 13 30 26 4933.89 27.50 213.36 236.75 77.80 14 52 40 4333.9 25.54 205.11
 110.00 4 0 55 1729.22 -23.10 3.63 230.85 115.93 4 29 44 1129.2 -19.42 356.42
 110.00 14 45 26 4699.20 31.01 194.56 235.77 74.83 16 3 45 4099.2 28.61 186.18

DIFFERENTIAL CORRECTIONS

TDE -.3329 TRA -.6570 TC3 -.1664 BAU .3350
 RDE -.0114 RRA .4589 RC3 .6523 FAU .11174
 FDE -1.6293 FRA -1.2428 FC3 -2.5988 BSP 2944
 BOE .3331 BRA .8014 BC3 .6732 FSP -984

MID-COURSE EXECUTION ACCURACY

SGT 724.0 SGR 906.4 SG3 320.7
 RRT -.6512 RRF -.8967 RTF .6888
 SGB 1160.1 R23 .1373 R13 -.8968
 SG1 1060.8 SG2 469.5 THA 125.41

ORBIT DETERMINATION ACCURACY

ST 363.9 SR 132.7 SS 591.0
 CRT -.4353 CRS .1520 CST -.9512
 LSA 688.0 MSA 159.3 SSA 24.0
 EL1 369.0 EL2 117.8 ALF 169.95

LAUNCH DATE MAR 2 1969

FLIGHT TIME 90.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 262.281

RL 148.27 LAL -.00 LOL 161.24 VL 28.590 GAL -10.59 AZL 91.71 MCA 120.83 SMA 136.43 ECC .20258 INC 1.7149 V1 30.050
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.284 GAP -.78 AZP 89.12 TAL 234.51 TAP 355.34 RCA 108.79 APO 164.07 V2 34.813
 RC 84.153 GL -7.97 GP 37.41 ZAL 159.45 ZAP 81.50 ETS 355.89 ZAE 143.28 ETE 96.02 ZAC 101.87 ETC 153.97 CLP -79.27

PLANETOCENTRIC CONIC

C3 36.790 VHL 6.065 DLA -7.21 RAL 3.42 RAD 6568.4 VEL 12.576 PTH 2.28 VHP 4.327 DPA 39.88 RAP 3.68 ECC 1.6055
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 51 25 2139.87 -17.69 36.81 233.28 112.48 2 27 5 1539.9 -14.49 29.59
 90.00 12 1 7 5234.62 26.56 235.69 237.94 79.81 13 28 21 4634.6 24.89 227.42
 100.00 3 9 18 1888.60 -18.92 17.78 232.73 113.58 3 40 47 1288.6 -15.57 10.59
 100.00 13 25 54 4961.12 27.88 215.30 237.66 78.75 14 48 36 4361.1 26.04 206.98
 110.00 4 9 39 1699.63 -22.20 1.79 231.09 116.68 4 37 59 1099.6 -18.44 354.68
 110.00 14 42 3 4722.85 31.41 196.29 236.74 75.77 16 0 45 4122.9 29.14 187.82

DIFFERENTIAL CORRECTIONS

TDE -.3895 TRA -.7151 TC3 -.2617 BAU .3647
 RDE .0334 RRA .4549 RC3 .6938 FAU .11201
 FDE -1.7102 FRA -1.2017 FC3 -2.6358 BSP 3303
 BOE .3910 BRA .8476 BC3 .7415 FSP -1002

MID-COURSE EXECUTION ACCURACY

SGT 836.6 SGR 947.0 SG3 324.9
 RRT -.7242 RRF -.9090 RTF .7593
 SGB 1263.6 R23 .1488 R13 -.9087
 SG1 1175.0 SG2 465.0 THA 130.13

ORBIT DETERMINATION ACCURACY

ST 421.0 SR 136.1 SS 618.5
 CRT -.6704 CRS .4355 CST -.9556
 LSA 744.4 MSA 153.9 SSA 23.5
 EL1 431.3 EL2 98.6 ALF 167.09

LAUNCH DATE MAR 2 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 268.609

RL 148.27 LAL -.00 LOL 161.24 VL 28.573 GAL -10.47 AZL 91.98 MCA 123.99 SMA 136.29 ECC .20126 INC 1.9770 V1 30.050
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.265 GAP -.32 AZP 88.89 TAL 234.10 TAP 358.09 RCA 108.86 APO 163.72 V2 34.807
 RC 86.508 GL -9.25 GP 38.88 ZAL 158.68 ZAP 85.80 ETS 358.97 ZAE 141.28 ETE 101.79 ZAC 99.68 ETC 155.12 CLP -84.60

PLANETOCENTRIC CONIC

C3 36.389 VHL 6.032 DLA -8.27 RAL 4.19 RAD 6568.4 VEL 12.560 PTH 2.28 VHP 4.337 DPA 40.23 RAP .78 ECC 1.5989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 2 44 2103.29 -16.72 34.56 233.72 113.19 2 37 48 1503.3 -13.44 27.42
 90.00 11 55 58 5265.66 26.92 237.89 238.99 80.86 13 23 44 4665.7 25.38 229.56
 100.00 3 20 5 1853.78 -17.96 15.64 233.15 114.31 3 50 59 1253.8 -14.53 8.53
 100.00 13 21 19 4990.40 28.25 217.39 238.73 79.80 14 44 29 4390.4 26.55 209.00
 110.00 4 19 12 1668.67 -21.24 359.90 231.46 117.43 4 47 1 1068.7 -17.40 352.88
 110.00 14 38 41 4748.28 31.82 198.16 237.88 76.81 15 57 50 4148.3 29.68 189.60

DIFFERENTIAL CORRECTIONS

TDE -.4552 TRA -.7730 TC3 -.3622 BAU .3968
 RDE .0796 RRA .4453 RC3 .7308 FAU .11096
 FDE -1.7775 FRA -1.1418 FC3 -2.6398 BSP 3704
 BOE .4621 BRA .8921 BC3 .8156 FSP -1013

MID-COURSE EXECUTION ACCURACY

SGT 963.5 SGR 982.7 SG3 325.5
 RRT -.7764 RRF -.9194 RTF .8085
 SGB 1376.3 R23 .1585 R13 -.9180
 SG1 1297.1 SG2 460.1 THA 134.27

ORBIT DETERMINATION ACCURACY

ST 486.5 SR 151.2 SS 645.4
 CRT -.8373 CRS .6618 CST -.9599
 LSA 808.4 MSA 148.3 SSA 23.0
 EL1 503.1 EL2 79.9 ALF 165.03

LAUNCH DATE MAR 2 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 274.904

RL 148.27 LAL -.00 LOL 161.24 VL 28.550 GAL -10.35 AZL 92.26 MCA 127.15 SMA 136.11 ECC .20002 INC 2.2593 V1 30.050
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.244 GAP .12 AZP 88.64 TAL 233.59 TAP .73 RCA 108.89 APO 163.34 V2 34.802
 RC 88.877 GL -10.63 GP 40.29 ZAL 157.76 ZAP 89.87 ETS 2.17 ZAE 139.09 ETE 107.00 ZAC 97.63 ETC 156.27 CLP -89.83

PLANETOCENTRIC CONIC

C3 36.030 VHL 6.003 OLA -9.39 RAL 5.08 RAD 6568.4 VEL 12.546 PTH 2.27 VHP 4.375 DPA 40.59 RAP 358.03 ECC 1.5930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 11 2064.40 -15.66 32.19 234.31 113.89 2 49 35 1464.4 -12.30 25.13
 90.00 11 50 36 5299.55 27.26 240.32 240.20 82.03 13 18 55 4699.5 25.88 231.92
 100.00 3 31 55 1816.83 -16.91 13.40 233.72 115.02 4 2 12 1216.8 -13.40 6.37
 100.00 13 16 33 5022.35 28.61 219.70 239.97 80.96 14 40 15 4422.3 27.07 211.24
 110.00 4 29 41 1635.95 -20.20 357.93 231.98 118.18 4 56 57 1035.9 -16.28 351.01
 110.00 14 35 16 4776.00 32.24 200.21 239.19 77.96 15 54 52 4176.0 30.24 191.56

DIFFERENTIAL CORRECTIONS

TDE -.5306 TRA -.8291 TC3 -.4664 BAU .4298
 RDE .1251 RRA .4283 RC3 .7606 FAU .10834
 FDE-1.8233 FRA-1.0587 FC3-2.6033 BSP 4105
 BDE .5452 BRA .9332 BC3 .8922 FSP -1003

MID-COURSE EXECUTION ACCURACY

SGT 1101.5 SGR 1009.9 SG3 321.5
 RRT -.8128 RRF -.9277 RTF .8424
 SGB 1494.4 R23 .1682 R13 -.9249
 SG1 1423.4 SG2 455.3 THA 138.05

ORBIT DETERMINATION ACCURACY

ST 561.0 SR 174.6 SS 669.0
 CRT -.9279 CRS .8048 CST -.9639
 LSA 878.6 MSA 142.8 SSA 22.3
 EL1 584.2 EL2 62.5 ALF 163.70

LAUNCH DATE MAR 2 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 281.167

RL 148.27 LAL -.00 LOL 161.24 VL 28.523 GAL -10.22 AZL 92.57 MCA 130.30 SMA 135.90 ECC .19884 INC 2.5660 V1 30.050
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.219 GAP .54 AZP 88.34 TAL 232.98 TAP 3.29 RCA 108.87 APO 162.92 V2 34.797
 RC 91.256 GL -12.14 GP 41.69 ZAL 156.68 ZAP 93.66 ETS 5.47 ZAE 136.77 ETE 111.64 ZAC 95.72 ETC 157.37 CLP -94.91

PLANETOCENTRIC CONIC

C3 35.728 VHL 5.977 OLA -10.60 RAL 6.08 RAD 6568.4 VEL 12.534 PTH 2.27 VHP 4.443 DPA 40.99 RAP 355.42 ECC 1.5880
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 59 2022.56 -14.49 29.68 235.08 114.59 3 2 41 1422.6 -11.06 22.69
 90.00 11 44 49 5337.12 27.59 243.02 241.61 83.35 13 13 46 4737.1 26.38 234.56
 100.00 3 45 2 1777.18 -15.75 11.02 234.47 115.74 4 14 39 1177.2 -12.16 4.07
 100.00 13 11 27 5057.73 28.96 222.27 241.41 82.27 14 35 44 4457.7 27.59 213.74
 110.00 4 41 17 1601.01 -19.07 355.86 232.67 118.92 5 7 58 1001.0 -15.06 349.03
 110.00 14 31 41 4806.66 32.65 202.51 240.72 79.26 15 51 47 4206.7 30.82 193.76

DIFFERENTIAL CORRECTIONS

TDE -.6164 TRA -.8815 TC3 -.5718 BAU .4640
 RDE .1725 RRA .4061 RC3 .7852 FAU .10469
 FDE-1.8577 FRA -.9644 FC3-2.5368 BSP 4547
 BDE .6401 BRA .9706 BC3 .9713 FSP -990

MID-COURSE EXECUTION ACCURACY

SGT 1247.2 SGR 1032.1 SG3 314.5
 RRT -.8389 RRF -.9351 RTF .8664
 SGB 1618.8 R23 .1774 R13 -.9304
 SG1 1554.9 SG2 450.6 THA 141.39

ORBIT DETERMINATION ACCURACY

ST 645.0 SR 205.5 SS 693.1
 CRT -.8723 CRS .8907 CST -.9677
 LSA 958.8 MSA 137.7 SSA 21.4
 EL1 675.4 EL2 45.8 ALF 162.70

LAUNCH DATE MAR 2 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 287.399

RL 148.27 LAL -.00 LOL 161.24 VL 28.491 GAL -10.09 AZL 92.90 MCA 133.45 SMA 135.65 ECC .19771 INC 2.9028 V1 30.050
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.192 GAP .95 AZP 88.00 TAL 232.29 TAP 5.75 RCA 108.83 APO 162.46 V2 34.793
 RC 93.644 GL -13.79 GP 43.09 ZAL 155.41 ZAP 97.15 ETS 8.86 ZAE 134.34 ETE 115.73 ZAC 93.97 ETC 158.40 CLP -99.81

PLANETOCENTRIC CONIC

C3 35.499 VHL 5.958 OLA -11.92 RAL 7.22 RAD 6568.4 VEL 12.525 PTH 2.27 VHP 4.541 DPA 41.47 RAP 352.97 ECC 1.5842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 44 25 1977.01 -13.19 26.97 236.06 115.29 3 17 22 1377.0 -9.67 20.05
 90.00 11 38 25 5379.44 27.88 246.08 243.25 84.85 13 8 5 4779.4 26.88 237.56
 100.00 3 59 42 1734.14 -14.46 8.48 235.42 116.45 4 28 36 1134.1 -10.79 1.61
 100.00 13 5 50 5097.54 29.29 225.18 243.09 83.77 14 30 47 4497.5 28.12 216.58
 110.00 4 54 14 1563.34 -17.81 353.66 233.56 119.67 5 20 18 963.3 -13.73 346.93
 110.00 14 27 47 4841.10 33.06 205.11 242.49 80.75 15 48 28 4241.1 31.43 196.27

DIFFERENTIAL CORRECTIONS

TDE -.7135 TRA -.9287 TC3 -.6764 BAU .4980
 RDE .2206 RRA .3777 RC3 .8023 FAU .09992
 FDE-1.8768 FRA -.8580 FC3-2.4368 BSP 4999
 BDE .7468 BRA 1.0025 BC3 1.0494 FSP -965

MID-COURSE EXECUTION ACCURACY

SGT 1397.7 SGR 1047.3 SG3 304.2
 RRT -.8573 RRF -.9414 RTF .8835
 SGB 1746.5 R23 .1871 R13 -.9345
 SG1 1688.6 SG2 446.3 THA 144.42

ORBIT DETERMINATION ACCURACY

ST 739.2 SR 241.3 SS 715.8
 CRT -.9909 CRS .9393 CST -.9712
 LSA 1048.2 MSA 133.3 SSA 20.3
 EL1 776.9 EL2 30.9 ALF 162.05

LAUNCH DATE MAR 2 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 293.601

RL 148.27 LAL -.00 LOL 161.24 VL 28.456 GAL -9.95 AZL 93.28 MCA 136.61 SMA 135.37 ECC .19664 INC 3.2765 V1 30.050
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.162 GAP 1.33 AZP 87.62 TAL 231.52 TAP 8.13 RCA 108.75 APO 161.98 V2 34.789
 RC 96.038 GL -15.63 GP 44.54 ZAL 153.93 ZAP 100.29 ETS 12.35 ZAE 131.84 ETE 119.31 ZAC 92.38 ETC 159.35 CLP -104.51

PLANETOCENTRIC CONIC

C3 35.372 VHL 5.947 OLA -13.37 RAL 8.50 RAD 6568.4 VEL 12.520 PTH 2.27 VHP 4.669 DPA 42.07 RAP 350.66 ECC 1.5821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 56 1926.74 -11.71 24.02 237.29 115.97 3 34 2 1326.7 -8.12 17.18
 90.00 11 31 8 5427.89 28.13 249.60 245.14 86.60 13 1 36 4827.9 27.36 241.02
 100.00 4 16 17 1686.84 -13.01 5.72 236.62 117.15 4 44 24 1086.8 -9.27 358.93
 100.00 12 59 28 5143.02 29.58 228.53 245.03 85.51 14 25 11 4543.0 28.65 219.86
 110.00 5 8 49 1522.30 -16.41 351.30 234.69 120.41 5 34 11 922.3 -12.25 344.66
 110.00 14 23 25 4880.33 33.45 208.11 244.55 82.49 15 44 45 4280.3 32.05 199.16

DIFFERENTIAL CORRECTIONS

TDE -.8231 TRA -.9683 TC3 -.7771 BAU .5310
 RDE .2684 RRA .3416 RC3 .8104 FAU .09406
 FDE-1.8780 FRA -.7385 FC3-2.3022 BSP 5427
 BDE .8658 BRA 1.0267 BC3 1.1228 FSP -922

MID-COURSE EXECUTION ACCURACY

SGT 1550.0 SGR 1053.8 SG3 290.5
 RRT -.8696 RRF -.9468 RTF .8954
 SGB 1874.3 R23 .1979 R13 -.9373
 SG1 1821.3 SG2 442.8 THA 147.23

ORBIT DETERMINATION ACCURACY

ST 844.0 SR 279.3 SS 735.9
 CRT -.9972 CRS .9666 CST -.9742
 LSA 1146.6 MSA 130.0 SSA 18.9
 EL1 888.8 EL2 20.0 ALF 161.73

ATE MAR 2 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 12 1969

GEOCENTRIC CONIC

148.27 LAL -0.00 LOL 161.24 VL 28.417 GAL -9.80 AZL 93.70 MCA 139.76 SMA 135.06 ECC .19562 INC 3.6963 V1 30.050
 108.94 LAP -2.39 LOP 301.05 VP 38.131 GAP 1.70 AZP 87.18 TAL 230.68 TAP 10.43 RCA 108.64 APO 161.48 V2 34.787
 98.436 GL -17.67 GP 46.08 ZAL 152.23 ZAP 103.05 ETS 15.94 ZAE 129.27 ETE 122.43 ZAC 90.93 ETC 160.22 CLP-109.00

PLANETOCENTRIC CONIC

C3 35.385 VHL 5.949 DLA -14.98 RAL 9.94 RAD 6568.4 VEL 12.520 PTH 2.27 VHP 4.830 DPA 42.82 RAP 348.45 ECC 1.5823
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 22 2 1870.46 -10.01 20.76 238.83 116.63 3 53 13 1270.5 -6.35 13.99
 90.00 11 22 34 5484.36 28.29 253.72 247.36 88.66 12 53 58 4884.4 27.80 245.09
 100.00 4 35 16 1634.18 -11.35 2.68 238.13 117.84 5 2 30 1034.2 -7.54 355.97
 100.00 12 52 1 5195.87 29.80 232.45 247.30 87.56 14 18 37 4595.9 29.14 223.70
 110.00 5 25 25 1477.11 -14.84 348.75 236.10 121.15 5 50 2 877.1 -10.60 342.20
 110.00 14 18 22 4925.70 33.79 211.61 246.97 84.53 15 40 28 4325.7 32.67 202.55

DIFFERENTIAL CORRECTIONS

TOE -1.9483 TRA -1.9993 TC3 -1.8720 BAU .5635 SGT 1703.9 SGR 1056.8 SG3 275.2 ST 961.6 SR 322.0 SS 757.2
 ROE .3196 RRA .3005 RC3 .8116 FAU .08766 RRT -.8782 RRF -.9518 RTF .9045 CRT -.9978 CRS .9824 CST -.9772
 FDE -1.8723 FRA -1.6182 FC3 -2.1447 BSP 5887 SGB 2005.0 R23 .2086 R13 -.9397 LSA 1259.0 MSA 128.0 SSA 17.3
 BOE 1.0007 BRA 1.0435 BC3 1.1912 FSP -879 SG1 1956.1 SG2 440.3 THA 149.73 EL1 1013.9 EL2 20.1 ALF 161.52

LAUNCH DATE MAR 2 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

RL 148.27 LAL -0.00 LOL 161.24 VL 28.375 GAL -9.64 AZL 94.17 MCA 142.90 SMA 134.73 ECC .19464 INC 4.1745 V1 30.050
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.098 GAP 2.05 AZP 86.67 TAL 229.76 TAP 12.66 RCA 108.51 APO 160.96 V2 34.785
 RC 100.837 GL -19.96 GP 47.75 ZAL 150.26 ZAP 105.42 ETS 19.65 ZAE 126.64 ETE 125.15 ZAC 89.61 ETC 161.01 CLP-113.29

PLANETOCENTRIC CONIC

C3 35.593 VHL 5.966 DLA -16.78 RAL 11.59 RAD 6568.4 VEL 12.528 PTH 2.27 VHP 5.029 DPA 43.76 RAP 346.28 ECC 1.5858
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 33 1806.32 -8.03 17.09 240.78 117.25 4 15 40 1206.3 -4.31 10.38
 90.00 11 12 10 5551.46 28.30 258.63 249.94 91.12 12 44 41 4951.5 28.15 249.97
 100.00 4 57 22 1574.62 -9.44 359.30 240.03 118.49 5 23 36 974.6 -5.56 352.66
 100.00 12 43 3 5258.38 29.89 237.09 249.95 90.00 14 10 41 4658.4 29.57 228.30
 110.00 5 44 33 1426.79 -13.05 345.95 237.89 121.88 6 8 20 826.8 -8.74 339.50
 110.00 14 12 21 4978.98 34.06 215.74 249.82 86.96 15 35 20 4379.0 33.27 206.59

DIFFERENTIAL CORRECTIONS

TOE -1.0916 TRA -1.0188 TC3 -.9564 BAU .5939 SGT 1856.3 SGR 1052.2 SG3 257.4 ST 1092.8 SR 366.5 SS 776.8
 ROE .3721 RRA .2516 RC3 .8020 FAU .08051 RRT -.8830 RRF -.9562 RTF .9110 CRT -.9960 CRS .9914 CST -.9798
 FDE -1.8537 FRA -.4922 FC3 -1.9583 BSP 6317 SGB 2133.7 R23 .2203 R13 -.9412 LSA 1384.0 MSA 127.4 SSA 15.5
 BOE 1.1533 BRA 1.0494 BC3 1.2482 FSP -822 SG1 2088.1 SG2 439.0 THA 152.07 EL1 1152.2 EL2 30.9 ALF 161.52

LAUNCH DATE MAR 2 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

RL 148.27 LAL -0.00 LOL 161.24 VL 28.330 GAL -9.48 AZL 94.73 MCA 146.05 SMA 134.39 ECC .19370 INC 4.7276 V1 30.050
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.063 GAP 2.39 AZP 86.08 TAL 228.78 TAP 14.82 RCA 108.36 APO 160.42 V2 34.784
 RC 103.240 GL -22.55 GP 49.60 ZAL 147.99 ZAP 107.35 ETS 23.51 ZAE 123.92 ETE 127.52 ZAC 88.37 ETC 161.74 CLP-117.39

PLANETOCENTRIC CONIC

C3 36.079 VHL 6.007 DLA -18.80 RAL 13.46 RAD 6568.4 VEL 12.548 PTH 2.27 VHP 5.273 DPA 44.91 RAP 344.07 ECC 1.5938
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 40 1731.51 -5.67 12.85 243.28 117.79 4 42 32 1131.5 -1.91 6.19
 90.00 10 59 1 5633.12 28.04 264.59 252.94 94.10 12 32 54 5033.1 28.32 255.94
 100.00 5 23 34 1505.97 -7.19 355.45 242.46 119.09 5 48 40 906.0 -3.25 348.87
 100.00 12 31 48 5333.89 29.76 242.70 253.06 92.95 14 0 42 4733.9 29.85 233.90
 110.00 6 6 57 1370.04 -10.99 342.84 240.16 122.57 6 29 47 770.0 -6.61 336.48
 110.00 14 4 55 5042.58 34.18 220.71 253.19 89.90 15 28 57 4442.6 33.79 211.48

DIFFERENTIAL CORRECTIONS

TOE -1.2593 TRA -1.0254 TC3 -1.0280 BAU .6233 SGT 2008.9 SGR 1044.9 SG3 238.7 ST 1241.2 SR 414.7 SS 797.6
 ROE .4293 RRA .1967 RC3 .7830 FAU .07311 RRT -.8853 RRF -.9602 RTF .9165 CRT -.9934 CRS .9963 CST -.9823
 FDE -1.8306 FRA -.3704 FC3 -1.7543 BSP 6774 SGB 2264.4 R23 .2313 R13 -.9428 LSA 1527.1 MSA 128.1 SSA 13.6
 BOE 1.3305 BRA 1.0441 BC3 1.2922 FSP -766 SG1 2221.4 SG2 439.4 THA 154.19 EL1 1307.8 EL2 45.1 ALF 161.61

LAUNCH DATE MAR 2 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

RL 148.27 LAL -0.00 LOL 161.24 VL 28.283 GAL -9.31 AZL 95.38 MCA 149.19 SMA 134.03 ECC .19281 INC 5.3788 V1 30.050
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.028 GAP 2.71 AZP 85.38 TAL 227.73 TAP 16.92 RCA 108.18 APO 159.87 V2 34.783
 RC 105.643 GL -25.49 GP 51.70 ZAL 145.35 ZAP 108.82 ETS 27.55 ZAE 121.08 ETE 129.64 ZAC 87.18 ETC 162.44 CLP-121.36

PLANETOCENTRIC CONIC

C3 36.970 VHL 6.080 DLA -21.10 RAL 15.63 RAD 6568.4 VEL 12.583 PTH 2.28 VHP 5.573 DPA 46.30 RAP 341.71 ECC 1.6084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 48 26 1641.16 -2.79 7.78 246.55 118.19 5 15 47 1041.2 1.01 1.15
 90.00 10 41 31 5735.80 27.32 272.01 256.41 97.75 12 17 7 5135.8 28.11 263.44
 100.00 5 55 31 1424.64 -4.47 350.93 245.62 119.59 6 19 16 824.6 -3.50 344.40
 100.00 12 17 6 5427.55 29.23 249.61 256.68 96.55 13 47 34 4827.5 29.83 240.86
 110.00 6 33 40 1305.06 -8.58 339.35 243.09 123.22 6 55 25 705.1 -4.15 333.06
 110.00 13 55 27 5119.89 34.03 226.74 257.17 93.46 15 20 47 4519.9 34.13 217.49

DIFFERENTIAL CORRECTIONS

TOE -1.4580 TRA -1.0146 TC3 -1.0793 BAU .6494 SGT 2158.8 SGR 1029.8 SG3 218.3 ST 1408.4 SR 463.4 SS 817.1
 ROE .4890 RRA .1321 RC3 .7493 FAU .06523 RRT -.8843 RRF -.9635 RTF .9209 CRT -.9906 CRS .9988 CST -.9846
 FDE -1.7981 FRA -.2486 FC3 -1.5275 BSP 7194 SGB 2391.8 R23 .2424 R13 -.9441 LSA 1687.8 MSA 130.3 SSA 11.6
 BOE 1.5378 BRA 1.0231 BC3 1.3139 FSP -699 SG1 2350.7 SG2 441.6 THA 156.24 EL1 1481.4 EL2 60.1 ALF 161.92

LAUNCH DATE MAR 2 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 324.194

RL 148.27 LAL -0.00 LOL 161.24 VL 28.234 GAL -9.13 AZL 96.16 HCA 152.33 SMA 133.65 ECC .19196 INC 6.1620 V1 30.050
 RP 108.95 LAP -2.86 LOP 313.70 VP 37.991 GAP 3.02 AZP 84.54 TAL 226.63 TAP 18.95 RCA 107.99 APO 159.31 V2 34.783
 RC 108.045 GL -28.85 GP 54.10 ZAL 142.29 ZAP 109.78 ETS 31.81 ZAE 118.09 ETE 131.60 ZAC 85.98 ETC 163.19 CLP-125.25

PLANETOCENTRIC CONIC

C3 38.467 VHL 6.202 CLA -23.72 RAL 18.15 RAD 6568.5 VEL 12.643 PTH 2.29 VHP 5.947 DPA 47.94 RAP 339.05 ECC 1.6331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 52 1524.80 .97 1.29 250.96 118.30 5 59 17 924.8 4.74 354.64
 90.00 10 16 11 5872.22 25.70 281.67 260.28 102.33 11 54 3 5272.2 27.14 273.30
 100.00 6 36 9 1323.78 -1.06 345.39 249.83 119.88 6 58 12 723.8 2.92 338.86
 100.00 11 56 36 5548.48 27.97 258.38 260.81 100.99 13 29 4 4948.5 29.21 249.79
 110.00 7 6 22 1229.03 -5.73 335.31 246.94 123.76 7 26 51 629.0 -1.25 329.08
 110.00 13 42 52 5216.00 33.38 234.16 261.85 97.81 15 9 48 4616.0 34.10 225.00

DIFFERENTIAL CORRECTIONS

TDE-1.7005 TRA -.9834 TC3-1.1057 BAU .6732
 RDE .5534 RRA .0583 RC3 .7007 FAU .05727
 FDE-1.7624 FRA -.1347 FC3-1.2889 BSP 7646
 BDE 1.7883 BRA .9851 BC3 1.3091 FSP -634

MID-COURSE EXECUTION ACCURACY

SGT 2309.5 SGR 1010.1 SG3 197.5
 RRT -.8803 RRF -.9658 RTF .9254
 SGB 2520.7 R23 .2514 R13 -.9459
 SG1 2480.9 SG2 446.0 THA 158.20

ORBIT DETERMINATION ACCURACY

ST 1599.4 SR 512.2 SS 837.2
 CRT -.9881 CRS .9997 CST -.9869
 LSA 1871.8 MSA 133.5 SSA 9.6
 EL1 1677.8 EL2 75.2 ALF 162.41

LAUNCH DATE MAR 2 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 330.233

RL 148.27 LAL -0.00 LOL 161.24 VL 28.183 GAL -8.94 AZL 97.13 HCA 155.46 SMA 133.26 ECC .19116 INC 7.1279 V1 30.050
 RP 108.94 LAP -2.95 LOP 316.87 VP 37.954 GAP 3.32 AZP 83.51 TAL 225.47 TAP 20.93 RCA 107.79 APO 158.74 V2 34.784
 RC 110.446 GL -32.69 GP 56.86 ZAL 138.73 ZAP 110.20 ETS 36.39 ZAE 114.86 ETE 133.53 ZAC 84.69 ETC 164.08 CLP-129.18

PLANETOCENTRIC CONIC

C3 40.909 VHL 6.396 CLA -26.68 RAL 21.13 RAD 6568.6 VEL 12.739 PTH 2.32 VHP 6.425 DPA 49.81 RAP 335.89 ECC 1.6733
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 34 1346.26 6.68 351.28 257.43 117.58 7 5 0 746.3 10.32 344.49
 90.00 9 31 17 793.82 21.89 317.93 264.06 108.43 9 44 30 193.8 24.20 310.02
 100.00 7 32 23 1185.33 3.63 337.79 255.75 119.69 7 52 9 585.3 7.55 331.20
 100.00 11 24 8 5718.02 25.21 270.21 265.11 106.62 12 59 26 5118.0 27.24 262.00
 110.00 7 47 53 1136.72 -2.21 330.47 252.12 124.12 8 6 49 536.7 2.28 324.27
 110.00 13 25 9 5339.39 31.86 243.46 267.21 103.11 14 54 8 4739.4 33.33 234.54

DIFFERENTIAL CORRECTIONS

TDE-2.0031 TRA -.9225 TC3-1.0961 BAU .6916
 RDE .6170 RRA -.0301 RC3 .6305 FAU .04905
 FDE-1.7189 FRA -.0252 FC3-1.0381 BSP 8053
 BDE 2.0960 BRA .9230 BC3 1.2645 FSP -562

MID-COURSE EXECUTION ACCURACY

SGT 2457.9 SGR 978.2 SG3 175.7
 RRT -.8712 RRF -.9659 RTF .9300
 SGB 2645.4 R23 .2585 R13 -.9480
 SG1 2606.4 SG2 452.8 THA 160.26

ORBIT DETERMINATION ACCURACY

ST 1816.2 SR 553.3 SS 855.1
 CRT -.9854 CRS .9996 CST -.9890
 LSA 2077.7 MSA 137.7 SSA 7.8
 EL1 1896.5 EL2 90.1 ALF 163.25

LAUNCH DATE MAR 2 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 336.243

RL 148.27 LAL -0.00 LOL 161.24 VL 28.130 GAL -8.75 AZL 98.36 HCA 158.58 SMA 132.87 ECC .19039 INC 8.3565 V1 30.050
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.917 GAP 3.60 AZP 82.21 TAL 224.25 TAP 22.84 RCA 107.57 APO 158.17 V2 34.786
 RC 112.844 GL -37.09 GP 60.07 ZAL 134.58 ZAP 110.03 ETS 41.44 ZAE 111.33 ETE 135.66 ZAC 83.23 ETC 165.32 CLP-133.35

PLANETOCENTRIC CONIC

C3 44.897 VHL 6.700 CLA -30.02 RAL 24.72 RAD 6568.7 VEL 12.894 PTH 2.35 VHP 7.053 DPA 51.89 RAP 331.93 ECC 1.7389
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.59 6 56 41 1366.08 15.10 357.08 266.85 116.26 7 19 27 766.1 18.51 349.93
 100.41 9 45 47 820.86 15.12 316.97 266.86 116.25 9 59 27 220.9 18.53 309.83
 79.59 6 56 41 1366.08 15.10 357.08 266.85 116.26 7 19 27 766.1 18.51 349.93
 100.41 9 45 47 820.86 15.12 316.97 266.86 116.25 9 59 27 220.9 18.53 309.83
 110.00 8 44 22 1015.01 2.44 324.12 259.42 124.11 9 1 17 415.0 6.90 317.88
 110.00 12 57 16 5507.97 28.61 255.51 272.98 109.55 14 29 4 4908.0 31.01 247.12

DIFFERENTIAL CORRECTIONS

TDE-2.3960 TRA -.8219 TC3-1.0427 BAU .7041
 RDE .6732 RRA -.1345 RC3 .5374 FAU .04091
 FDE-1.6728 FRA .0738 FC3 -.7889 BSP 8488
 BDE 2.4888 BRA .8329 BC3 1.1730 FSP -492

MID-COURSE EXECUTION ACCURACY

SGT 2609.4 SGR 931.5 SG3 153.8
 RRT -.8549 RRF -.9616 RTF .9362
 SGB 2770.7 R23 .2606 R13 -.9514
 SG1 2732.0 SG2 461.6 THA 162.51

ORBIT DETERMINATION ACCURACY

ST 2063.6 SR 577.5 SS 871.9
 CRT -.9824 CRS .9984 CST -.9911
 LSA 2309.1 MSA 142.1 SSA 6.2
 EL1 2140.4 EL2 104.1 ALF 164.59

LAUNCH DATE MAR 2 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 342.224

RL 148.27 LAL -0.00 LOL 161.24 VL 28.076 GAL -8.54 AZL 99.98 HCA 161.70 SMA 132.47 ECC .18965 INC 9.9819 V1 30.050
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.879 GAP 3.86 AZP 80.51 TAL 222.98 TAP 24.68 RCA 107.34 APO 157.59 V2 34.789
 RC 115.239 GL -42.08 GP 63.78 ZAL 129.78 ZAP 109.21 ETS 47.25 ZAE 107.38 ETE 138.38 ZAC 81.47 ETC 167.27 CLP-138.14

PLANETOCENTRIC CONIC

C3 51.577 VHL 7.182 CLA -33.71 RAL 29.11 RAD 6568.9 VEL 13.151 PTH 2.40 VHP 7.911 DPA 54.06 RAP 326.76 ECC 1.8488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.91 6 14 36 1587.59 15.62 14.16 274.31 120.25 6 41 4 987.6 19.52 7.25
 109.09 11 2 56 668.73 15.64 305.73 274.32 120.25 11 14 4 68.7 19.54 298.82
 70.91 6 14 36 1587.59 15.62 14.16 274.31 120.25 6 41 4 987.6 19.52 7.25
 109.09 11 2 56 668.73 15.64 305.73 274.32 120.25 11 14 4 68.7 19.54 298.82
 110.00 10 25 6 784.40 11.10 311.89 271.48 122.54 10 38 11 184.4 15.32 305.32
 110.00 11 51 36 5807.96 20.26 274.77 277.04 118.14 13 28 24 5208.0 23.86 267.48

DIFFERENTIAL CORRECTIONS

TDE-2.9247 TRA -.6586 TC3 -.9342 BAU .7056
 RDE .6940 RRA -.2607 RC3 .4177 FAU .03285
 FDE-1.6239 FRA .1640 FC3 -.5514 BSP 8922
 BDE 3.0059 BRA .7083 BC3 1.0233 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 2764.8 SGR 853.8 SG3 131.9
 RRT -.8214 RRF -.9451 RTF .9445
 SGB 2893.6 R23 .2557 R13 -.9564
 SG1 2854.9 SG2 471.6 THA 165.36

ORBIT DETERMINATION ACCURACY

ST 2341.3 SR 559.1 SS 886.2
 CRT -.9767 CRS .9951 CST -.9931
 LSA 2561.0 MSA 146.2 SSA 4.8
 EL1 2404.3 EL2 116.8 ALF 166.84

LAUNCH DATE MAR 2 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 348.167

RL 148.27 LAL -.00 LOL 161.24 VL 28.021 GAL -8.32 AZL 102.25 MCA 164.79 SMA 132.06 ECC .18893 INC12.2449 V1 30.050
 RP 108.82 LAP -3.19 LOP 326.36 VP 37.841 GAP 4.12 AZP 78.17 TAL 221.66 TAP 26.45 RCA 107.11 APO 157.01 V2 34.792
 RC 117.630 GL -47.62 GP 66.07 ZAL 124.25 ZAP 107.69 ETS 54.53 ZAE 102.85 ETE 142.51 ZAC 79.24 ETC 170.73 CLP-144.46

PLANETOCENTRIC CONIC

C3 63.370 VHL 7.980 DLA -37.59 RAL 34.80 RAD 6560.2 VEL 13.591 PTH 2.48 VHP 9.147 DPA 56.10 RAP 319.80 ECC 2.0429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.17 5 58 45 1751.18 15.28 26.84 283.80 124.78 6 27 56 1151.2 19.73 20.39
 115.83 12 2 35 606.09 15.30 300.53 283.81 124.77 12 12 41 6.1 19.74 293.97
 64.17 5 58 45 1751.18 15.28 26.84 283.80 124.78 6 27 56 1151.2 19.73 20.39
 115.83 12 2 35 606.09 15.30 300.53 283.81 124.77 12 12 41 6.1 19.74 293.97
 64.17 5 58 45 1751.18 15.28 26.84 283.80 124.78 6 27 56 1151.2 19.73 20.39
 115.83 12 2 35 606.09 15.30 300.53 283.81 124.77 12 12 41 6.1 19.74 293.97

DIFFERENTIAL CORRECTIONS

TDE-3.6828 TRA -.5846 TC3 -.7614 BAU .6852
 RDE .5957 RRA -.4101 RC3 .2729 FAU .02490
 FDE-1.5756 FRA .2485 FC3 -.3402 BSP 9278
 BDE 3.7109 BRA .5623 BC3 .8088 FSP -349

MID-COURSE EXECUTION ACCURACY

SGT 2922.6 SGR 715.1 SG3 110.3
 RRT -.7306 RRF -.8823 RTF .9560
 SGB 3008.8 R23 .2409 R13 -.9635
 SG1 2970.2 SG2 480.5 THA 169.59

ORBIT DETERMINATION ACCURACY

ST 2638.6 SR 443.3 SS 897.9
 CRT -.9568 CRS .9809 CST -.9951
 LSA 2818.3 MSA 149.2 SSA 3.6
 EL1 2672.6 EL2 127.3 ALF 170.85

LAUNCH DATE MAR 2 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 354.058

RL 148.27 LAL -.00 LOL 161.24 VL 27.965 GAL -8.09 AZL 105.62 MCA 167.85 SMA 131.65 ECC .18820 INC15.6243 V1 30.050
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.803 GAP 4.35 AZP 74.71 TAL 220.28 TAP 28.13 RCA 106.87 APO 156.42 V2 34.796
 RC 120.015 GL -53.50 GP 72.88 ZAL 118.03 ZAP 105.44 ETS 65.16 ZAE 97.47 ETE 150.04 ZAC 76.24 ETC 177.71 CLP-154.76

PLANETOCENTRIC CONIC

C3 86.059 VHL 9.277 DLA -41.32 RAL 41.53 RAD 6569.7 VEL 14.402 PTH 2.62 VHP 11.055 DPA 57.52 RAP 310.35 ECC 2.4163
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.56 6 0 2 1897.57 13.52 37.85 295.64 129.42 6 31 39 1297.6 18.51 31.76
 121.44 12 56 34 602.50 13.53 298.85 295.65 129.42 13 6 37 2.5 18.52 292.76
 58.56 6 0 2 1897.57 13.52 37.85 295.64 129.42 6 31 39 1297.6 18.51 31.76
 121.44 12 56 34 602.50 13.53 298.85 295.65 129.42 13 6 37 2.5 18.52 292.76
 58.56 6 0 2 1897.57 13.52 37.85 295.64 129.42 6 31 39 1297.6 18.51 31.76
 121.44 12 56 34 602.50 13.53 298.85 295.65 129.42 13 6 37 2.5 18.52 292.76

DIFFERENTIAL CORRECTIONS

TDE-4.7222 TRA .0962 TC3 -.5289 BAU .6239
 RDE .1026 RRA -.5449 RC3 .1197 FAU .01728
 FDE-1.5459 FRA .3312 FC3 -.1738 BSP 9659
 BDE 4.7233 BRA .5533 BC3 .5423 FSP -284

MID-COURSE EXECUTION ACCURACY

SGT 3078.2 SGR 504.1 SG3 90.2
 RRT -.2824 RRF -.4830 RTF .9717
 SGB 3119.2 R23 .2102 R13 -.9733
 SG1 3081.6 SG2 483.1 THA 177.29

ORBIT DETERMINATION ACCURACY

ST 2916.8 SR 148.8 SS 915.3
 CRT -.4337 CRS .5018 CST -.9970
 LSA 3057.0 MSA 149.6 SSA 2.6
 EL1 2917.5 EL2 134.0 ALF 178.73

LAUNCH DATE MAR 2 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 359.865

RL 148.27 LAL -.00 LOL 161.24 VL 27.908 GAL -7.83 AZL 111.21 MCA 170.85 SMA 131.23 ECC .18737 INC21.2050 V1 30.050
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.765 GAP 4.56 AZP 69.04 TAL 218.81 TAP 29.66 RCA 106.64 APO 155.82 V2 34.800
 RC 122.394 GL -58.99 GP 77.50 ZAL 111.25 ZAP 102.48 ETS 64.61 ZAE 90.72 ETE 166.59 ZAC 71.91 ETC 193.90 CLP-176.99

PLANETOCENTRIC CONIC

C3 136.131 VHL 11.668 DLA -44.01 RAL 50.15 RAD 6570.5 VEL 16.046 PTH 2.83 VHP 14.297 DPA 57.34 RAP 297.96 ECC 3.2404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.78 6 18 50 2034.82 9.86 46.69 309.77 133.12 6 52 44 1434.8 15.26 41.07
 125.22 13 46 31 655.37 9.87 300.24 309.78 133.11 13 57 27 55.4 15.28 294.61
 54.78 6 18 50 2034.82 9.86 46.69 309.77 133.12 6 52 44 1434.8 15.26 41.07
 125.22 13 46 31 655.37 9.87 300.24 309.78 133.11 13 57 27 55.4 15.28 294.61
 54.78 6 18 50 2034.82 9.86 46.69 309.77 133.12 6 52 44 1434.8 15.26 41.07
 125.22 13 46 31 655.37 9.87 300.24 309.78 133.11 13 57 27 55.4 15.28 294.61

DIFFERENTIAL CORRECTIONS

TDE-5.9701 TRA 1.0028 TC3 -.2533 BAU .4610
 RDE-1.8581 RRA -.4039 RC3 .0030 FAU .00948
 FDE-1.5689 FRA .4395 FC3 -.0603 BSP 9960
 BDE 6.2526 BRA 1.0810 BC3 .2533 FSP -227

MID-COURSE EXECUTION ACCURACY

SGT 3068.1 SGR 953.3 SG3 72.5
 RRT .8487 RRF .7746 RTF .9899
 SGB 3212.8 R23 -.1650 R13 .9840
 SG1 3175.7 SG2 487.1 THA 15.14

ORBIT DETERMINATION ACCURACY

ST 2939.0 SR 916.2 SS 958.2
 CRT .9871 CRS -.9787 CST -.9989
 LSA 3220.7 MSA 150.4 SSA 2.1
 EL1 3075.3 EL2 139.9 ALF 17.14

LAUNCH DATE MAR 2 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 365.486

RL 148.27 LAL -.00 LOL 161.24 VL 27.850 GAL -7.53 AZL 121.92 MCA 173.68 SMA 130.82 ECC .18623 INC31.9174 V1 30.050
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.728 GAP 4.71 AZP 58.24 TAL 217.20 TAP 30.88 RCA 106.45 APO 155.18 V2 34.805
 RC 124.766 GL -61.98 GP 77.62 ZAL 104.27 ZAP 98.92 ETS 123.37 ZAE 81.26 ETE 202.67 ZAC 64.82 ETC 230.13 CLP 136.34

PLANETOCENTRIC CONIC

C3 273.414 VHL 16.535 DLA -43.70 RAL 59.95 RAD 6571.6 VEL 19.868 PTH 3.13 VHP 20.617 DPA 53.45 RAP 283.31 ECC 5.4997
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.21 6 59 38 2140.45 4.67 51.29 325.03 133.50 7 35 19 1540.4 10.14 45.82
 124.79 14 23 56 770.05 4.68 305.65 325.05 133.50 14 36 46 170.0 10.16 300.18
 55.21 6 59 38 2140.45 4.67 51.29 325.03 133.50 7 35 19 1540.4 10.14 45.82
 124.79 14 23 56 770.05 4.68 305.65 325.05 133.50 14 36 46 170.0 10.16 300.18
 55.21 6 59 38 2140.45 4.67 51.29 325.03 133.50 7 35 19 1540.4 10.14 45.82
 124.79 14 23 56 770.05 4.68 305.65 325.05 133.50 14 36 46 170.0 10.16 300.18

DIFFERENTIAL CORRECTIONS

TDE-4.3541 TRA 2.1690 TC3 -.0292 BAU .1883
 RDE-7.5463 RRA 1.3246 RC3 .0424 FAU-.00097
 FDE-1.7377 FRA .6549 FC3 .0031 BSP 10115
 BDE 8.7123 BRA 2.5414 BC3 .0515 FSP -185

MID-COURSE EXECUTION ACCURACY

SGT 1834.7 SGR 2694.4 SG3 58.7
 RRT .9288 RRF .9701 RTF .9902
 SGB 3259.8 R23 -.1254 R13 .9916
 SG1 3209.4 SG2 570.9 THA 56.49

ORBIT DETERMINATION ACCURACY

ST 1540.6 SR 2621.8 SS 1085.6
 CRT .9914 CRS -.9966 CST -.9988
 LSA 3223.8 MSA 181.0 SSA 1.1
 EL1 3035.9 EL2 174.0 ALF 59.67

LAUNCH DATE MAR 2 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 370.546

RL 148.27 LAL -0.00 LOL 161.24 VL 27.792 GAL -7.11 AZL 146.86 MCA 175.98 SMA 130.40 ECC .18393 INC56.8588 V1 30.050
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.690 GAP 4.70 AZP 33.21 TAL 215.20 TAP 31.18 RCA 106.42 APO 154.38 V2 34.811
 RC 127.128 GL -56.20 GP 64.85 ZAL 98.00 ZAP 95.27 ETS 160.85 ZAE 65.07 ETE 237.08 ZAC 50.70 ETC 267.03 CLP 102.47

PLANETOCENTRIC CONIC

C3 772.308 VHL 27.790 DLA -35.26 RAL 68.07 RAD 6572.8 VEL 29.893 PTH 3.45 VHP 34.893 DPA 40.90 RAP 269.20 ECC13.7102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.06 8 33 10 2058.21 .27 40.81 337.67 125.26 9 7 28 1458.2 4.87 34.68
 111.94 13 55 9 1037.18 .29 324.38 337.68 125.25 14 12 26 437.2 4.89 318.25
 68.06 8 33 10 2058.21 .27 40.81 337.67 125.26 9 7 28 1458.2 4.87 34.68
 111.94 13 55 9 1037.18 .29 324.38 337.68 125.25 14 12 26 437.2 4.89 318.25
 68.06 8 33 10 2058.21 .27 40.81 337.67 125.26 9 7 28 1458.2 4.87 34.68
 111.94 13 55 9 1037.18 .29 324.38 337.68 125.25 14 12 26 437.2 4.89 318.25

DIFFERENTIAL CORRECTIONS

TDE 2.1431 TRA 1.6478 TC3 -.0358 BAU 1.8483
 RD-12.0537 RRA 5.8114 RC3 .1754 FAU-.02787
 FDE-2.2067 FRA 1.2701 FC3 .0312 BSP 9178
 BDE12.2428 BRA 6.0405 BC3 .1790 FSP -153

MID-COURSE EXECUTION ACCURACY

SGT 638.8 SGR 3046.1 SG3 50.4
 RRT -.3504 RRF .9968 RTF -.2744
 SGB 3112.4 R23 -.0948 R13 .9955
 SG1 3054.7 SG2 596.6 THA 94.37

ORBIT DETERMINATION ACCURACY

ST 459.2 SR 2524.0 SS 1402.0
 CRT -.9002 CRS -.9995 CST .8853
 LSA 2916.3 MSA 205.2 SSA .4
 EL1 2557.8 EL2 197.3 ALF 99.36

LAUNCH DATE MAR 2 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 380.974

RL 148.27 LAL -0.00 LOL 161.24 VL 27.734 GAL -7.80 AZL 15.99 MCA 183.52 SMA 129.98 ECC .19450 INC74.0133 V1 30.050
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.653 GAP 6.20 AZP 163.98 TAL 216.43 TAP 39.95 RCA 104.70 APO 155.27 V2 34.818
 RC 129.481 GL 49.12 GP -55.51 ZAL 96.89 ZAP 95.52 ETS 182.08 ZAE 59.97 ETE 108.42 ZAC 69.79 ETC 80.48 CLP 99.77

PLANETOCENTRIC CONIC

C31220.607 VHL 34.937 DLA 67.03 RAL 34.81 RAD 6573.1 VEL 36.632 PTH 3.53 VHP 43.601 DPA -77.51 RAP 234.21 ECC21.0881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.32 15 53 14 5079.65 .90 245.41 305.20 22.97 17 17 53 4479.6 -6.46 242.70
 153.68 2 9 46 3346.81 .91 99.06 305.18 22.97 3 5 33 2746.8 -6.45 96.35
 26.32 15 53 14 5079.65 .90 245.41 305.20 22.97 17 17 53 4479.6 -6.46 242.70
 153.68 2 9 46 3346.81 .91 99.06 305.18 22.97 3 5 33 2746.8 -6.45 96.35
 26.32 15 53 14 5079.65 .90 245.41 305.20 22.97 17 17 53 4479.6 -6.46 242.70
 153.68 2 9 46 3346.81 .91 99.06 305.18 22.97 3 5 33 2746.8 -6.45 96.35

DIFFERENTIAL CORRECTIONS

TDE-3.8534 TRA 1.4661 TC3 -.0883 BAU 3.3401
 RD-15.0856 RRA 7.159 RC3 -.1847 FAU-.05062
 FDE 3.1010 FRA -.1187 FC3 .0359 BSP 9198
 BDE15.5700 BRA 1.6315 BC3 .2047 FSP -160

MID-COURSE EXECUTION ACCURACY

SGT 1076.9 SGR 2806.4 SG3 49.2
 RRT .8421 RRF -.9996 RTF -.8269
 SGB 3005.9 R23 -.0900 R13 -.9959
 SG1 2954.9 SG2 551.6 THA 71.42

ORBIT DETERMINATION ACCURACY

ST 658.7 SR 2475.9 SS 1916.8
 CRT .9693 CRS 1.0000 CST .9676
 LSA 3195.7 MSA 160.6 SSA .8
 EL1 2557.3 EL2 156.7 ALF 75.48

LAUNCH DATE MAR 2 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 385.537

RL 148.27 LAL -0.00 LOL 161.24 VL 27.675 GAL -7.26 AZL 50.63 MCA 185.35 SMA 129.57 ECC .19099 INC39.3703 V1 30.050
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.616 GAP 6.05 AZP 129.25 TAL 214.18 TAP 39.54 RCA 104.82 APO 154.32 V2 34.825
 RC 131.823 GL 60.99 GP -73.22 ZAL 101.37 ZAP 99.55 ETS 203.11 ZAE 80.70 ETE 127.32 ZAC 88.96 ETC 103.44 CLP 125.10

PLANETOCENTRIC CONIC

C3 396.531 VHL 19.913 DLA 70.74 RAL 356.33 RAD 6572.1 VEL 22.756 PTH 3.27 VHP 24.687 DPA -81.08 RAP 72.88 ECC 7.5259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.00 13 10 21 5019.88 -3.72 246.33 265.04 19.30 14 34 1 4419.9 -11.26 244.06
 158.00 23 41 44 3262.10 -3.71 95.38 265.02 19.30 24 36 6 2662.1 -11.26 93.11
 22.00 13 10 21 5019.88 -3.72 246.33 265.04 19.30 14 34 1 4419.9 -11.26 244.06
 158.00 23 41 44 3262.10 -3.71 95.38 265.02 19.30 24 36 6 2662.1 -11.26 93.11
 22.00 13 10 21 5019.88 -3.72 246.33 265.04 19.30 14 34 1 4419.9 -11.26 244.06
 158.00 23 41 44 3262.10 -3.71 95.38 265.02 19.30 24 36 6 2662.1 -11.26 93.11

DIFFERENTIAL CORRECTIONS

TDE 2.3136 TRA .1899 TC3 -.0235 BAU .6495
 RDE-6.9269 RRA 3.1802 RC3 -.1203 FAU-.00570
 FDE 1.5294 FRA -.5564 FC3 .0125 BSP 10792
 BDE 7.3031 BRA 3.1859 BC3 .1225 FSP -183

MID-COURSE EXECUTION ACCURACY

SGT 692.3 SGR 3449.5 SG3 56.8
 RRT -.3444 RRF -.9916 RTF .4570
 SGB 3518.3 R23 -.1097 R13 -.9932
 SG1 3458.0 SG2 648.4 THA 94.10

ORBIT DETERMINATION ACCURACY

ST 667.5 SR 2159.9 SS 988.7
 CRT -.8915 CRS .9971 CST -.9233
 LSA 2449.9 MSA 293.6 SSA 1.6
 EL1 2241.9 EL2 291.4 ALF 105.68

LAUNCH DATE MAR 2 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 390.979

RL 148.27 LAL -0.00 LOL 161.24 VL 27.616 GAL -6.91 AZL 65.05 MCA 188.06 SMA 129.16 ECC .18983 INC24.9491 V1 30.050
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.580 GAP 6.14 AZP 114.73 TAL 212.40 TAP 40.46 RCA 104.64 APO 153.68 V2 34.833
 RC 134.153 GL 61.03 GP -74.80 ZAL 106.47 ZAP 104.83 ETS 253.98 ZAE 92.21 ETE 177.13 ZAC 98.78 ETC 154.68 CLP 167.41

PLANETOCENTRIC CONIC

C3 174.706 VHL 13.218 DLA 66.11 RAL 347.07 RAD 6570.9 VEL 17.206 PTH 2.94 VHP 16.277 DPA -69.21 RAP 58.86 ECC 3.8752
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.39 12 45 12 4896.39 -10.28 240.58 252.47 24.30 14 6 48 4296.4 -17.55 237.56
 152.61 22 53 0 3170.59 -10.28 95.41 252.46 24.30 23 45 50 2570.6 -17.54 92.38
 27.39 12 45 12 4896.39 -10.28 240.58 252.47 24.30 14 6 48 4296.4 -17.55 237.56
 152.61 22 53 0 3170.59 -10.28 95.41 252.46 24.30 23 45 50 2570.6 -17.54 92.38
 27.39 12 45 12 4896.39 -10.28 240.58 252.47 24.30 14 6 48 4296.4 -17.55 237.56
 152.61 22 53 0 3170.59 -10.28 95.41 252.46 24.30 23 45 50 2570.6 -17.54 92.38

DIFFERENTIAL CORRECTIONS

TDE 3.4549 TRA-2.4491 TC3 -.1182 BAU .2830
 RDE-1.0869 RRA 1.9510 RC3 .0267 FAU .01055
 FDE .9917 FRA -.6280 FC3 -.0523 BSP 11551
 BDE 3.6219 BRA 3.1313 BC3 .1212 FSP -227

MID-COURSE EXECUTION ACCURACY

SGT 3035.5 SGR 2142.2 SG3 70.0
 RRT -.9540 RRF -.9317 RTF .9964
 SGB 3715.2 R23 -.1620 R13 -.9852
 SG1 3677.2 SG2 530.3 THA 145.22

ORBIT DETERMINATION ACCURACY

ST 1691.6 SR 783.9 SS 667.8
 CRT -.9037 CRS .8835 CST -.9990
 LSA 1934.8 MSA 317.5 SSA 1.8
 EL1 1838.7 EL2 308.8 ALF 156.58

LAUNCH DATE MAR 2 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -.00 LOL 161.24 VL 27.557 GAL -6.59 AZL 72.04 HCA 191.02 SMA 128.75 ECC .18939 INC17.9622 V1 30.050
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.545 GAP 6.31 AZP 107.65 TAL 210.73 TAP 41.75 RCA 104.37 APO 153.14 V2 34.841
 RC 136.471 GL 57.49 GP -69.39 ZAL 111.02 ZAP 110.36 ETS 282.08 ZAE 99.96 ETE 203.74 ZAC 105.07 ETC 182.38 CLP-171.27

PLANETOCENTRIC CONIC
 C3 100.214 VHL 10.011 DLA 61.47 RAL 348.70 RAD 6569.9 VEL 14.885 PTH 2.69 VHP 12.298 OPA -60.39 RAP 52.98 ECC 2.6493
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.85 13 4 33 4769.33 -16.17 233.43 249.64 29.82 14 24 3 4169.3 -23.07 229.53
 147.15 22 46 36 3085.48 -16.16 94.53 249.62 29.82 23 38 2 2485.5 -23.06 90.64
 32.85 13 4 33 4769.33 -16.17 233.43 249.64 29.82 14 24 3 4169.3 -23.07 229.53
 147.15 22 46 36 3085.48 -16.16 94.53 249.62 29.82 23 38 2 2485.5 -23.06 90.64
 32.85 13 4 33 4769.33 -16.17 233.43 249.64 29.82 14 24 3 4169.3 -23.07 229.53
 147.15 22 46 36 3085.48 -16.16 94.53 249.62 29.82 23 38 2 2485.5 -23.06 90.64

MID-COURSE EXECUTION ACCURACY
 SGT 3788.1 SGR 627.3 SG3 86.7
 RRT -.6782 RRF -.5198 RTF .9775
 SGB 3839.7 R23 -.2082 R13 -.9747
 SG1 3812.3 SG2 458.0 THA 173.50

ORBIT DETERMINATION ACCURACY
 ST 1784.1 SR 293.1 SS 611.0
 CRT .3231 CRS -.4916 CST -.9829
 LSA 1885.5 MSA 295.0 SSA 2.4
 EL1 1786.7 EL2 277.0 ALF 3.11

DIFFERENTIAL CORRECTIONS
 TDE 2.5645 TRA-2.8200 TC3 -.4394 BAU .5887
 RDE .4116 RRA .4851 RC3 -.0041 FAU .02023
 FDE .9174 FRA -.6514 FC3 -.1747 BSP 11996
 BDE 2.5973 BRA 2.8614 BC3 .4394 FSP -284

LAUNCH DATE MAR 2 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -.00 LOL 161.24 VL 27.498 GAL -6.29 AZL 76.06 HCA 194.07 SMA 128.35 ECC .18927 INC13.9362 V1 30.050
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.510 GAP 6.49 AZP 103.53 TAL 209.09 TAP 43.17 RCA 104.06 APO 152.64 V2 34.850
 RC 138.775 GL 53.22 GP -63.05 ZAL 114.74 ZAP 115.75 ETS 291.95 ZAE 105.87 ETE 211.58 ZAC 109.90 ETC 191.32 CLP-163.48

PLANETOCENTRIC CONIC
 C3 67.554 VHL 8.219 DLA 57.41 RAL 352.52 RAD 6569.3 VEL 13.744 PTH 2.51 VHP 10.139 OPA -52.94 RAP 49.40 ECC 2.1118
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.72 13 32 14 4656.60 -20.51 226.02 248.70 35.10 14 49 51 4056.6 -26.97 221.28
 142.28 22 49 25 3019.36 -20.50 93.16 248.68 35.10 23 39 45 2419.4 -26.96 88.43
 37.72 13 32 14 4656.60 -20.51 226.02 248.70 35.10 14 49 51 4056.6 -26.97 221.28
 142.28 22 49 25 3019.36 -20.50 93.16 248.68 35.10 23 39 45 2419.4 -26.96 88.43
 37.72 13 32 14 4656.60 -20.51 226.02 248.70 35.10 14 49 51 4056.6 -26.97 221.28
 142.28 22 49 25 3019.36 -20.50 93.16 248.68 35.10 23 39 45 2419.4 -26.96 88.43

MID-COURSE EXECUTION ACCURACY
 SGT 3916.8 SGR 458.2 SG3 104.9
 RRT .3171 RRF .5423 RTF .9623
 SGB 3943.5 R23 .2460 R13 .9633
 SG1 3919.5 SG2 434.3 THA 2.15

ORBIT DETERMINATION ACCURACY
 ST 1760.3 SR 426.9 SS 605.2
 CRT .7855 CRS -.9100 CST -.9714
 LSA 1888.2 MSA 286.1 SSA 3.2
 EL1 1792.6 EL2 259.4 ALF 11.02

DIFFERENTIAL CORRECTIONS
 TDE 2.0599 TRA-2.6202 TC3 -.8113 BAU .7374
 RDE .6116 RRA .0559 RC3 -.0921 FAU .02787
 FDE .9213 FRA -.6538 FC3 -.3572 BSP 12365
 BDE 2.1488 BRA 2.6208 BC3 .8165 FSP -346

LAUNCH DATE MAR 2 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -.00 LOL 161.24 VL 27.439 GAL -5.99 AZL 78.67 HCA 197.17 SMA 127.95 ECC .18936 INC11.3287 V1 30.050
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.475 GAP 6.69 AZP 100.84 TAL 207.46 TAP 44.63 RCA 103.72 APO 152.18 V2 34.860
 RC 141.067 GL 49.04 GP -57.08 ZAL 117.62 ZAP 120.81 ETS 296.44 ZAE 110.59 ETE 213.61 ZAC 113.92 ETC 194.50 CLP-160.45

PLANETOCENTRIC CONIC
 C3 50.388 VHL 7.098 DLA 53.91 RAL 356.63 RAD 6568.9 VEL 13.105 PTH 2.39 VHP 8.858 OPA -46.37 RAP 47.19 ECC 1.8293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.00 14 0 32 4560.29 -23.41 218.89 248.26 39.93 15 16 32 3960.3 -29.43 213.42
 138.00 22 53 57 2972.47 -23.40 91.78 248.24 39.92 23 43 30 2372.5 -29.42 86.31
 42.00 14 0 32 4560.29 -23.41 218.89 248.26 39.93 15 16 32 3960.3 -29.43 213.42
 138.00 22 53 57 2972.47 -23.40 91.78 248.24 39.92 23 43 30 2372.5 -29.42 86.31
 42.00 14 0 32 4560.29 -23.41 218.89 248.26 39.93 15 16 32 3960.3 -29.43 213.42
 138.00 22 53 57 2972.47 -23.40 91.78 248.24 39.92 23 43 30 2372.5 -29.42 86.31

MID-COURSE EXECUTION ACCURACY
 SGT 3998.0 SGR 546.2 SG3 122.2
 RRT .6436 RRF .8275 RTF .9498
 SGB 4035.1 R23 .2737 R13 .9524
 SG1 4013.6 SG2 416.4 THA 5.08

ORBIT DETERMINATION ACCURACY
 ST 1752.0 SR 481.3 SS 606.5
 CRT .8537 CRS -.9613 CST -.9641
 LSA 1895.1 MSA 278.7 SSA 4.1
 EL1 1800.5 EL2 243.9 ALF 13.45

DIFFERENTIAL CORRECTIONS
 TDE 1.7868 TRA-2.4164 TC3-1.2074 BAU .8216
 RDE .5953 RRA -.0648 RC3 -.1720 FAU .03409
 FDE .9270 FRA -.6319 FC3 -.5858 BSP 12616
 BDE 1.8833 BRA 2.4173 BC3 1.2196 FSP -402

LAUNCH DATE MAR 2 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -.00 LOL 161.24 VL 27.380 GAL -5.69 AZL 80.50 HCA 200.29 SMA 127.55 ECC .18962 INC 9.4997 V1 30.050
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.441 GAP 6.89 AZP 98.92 TAL 205.83 TAP 46.11 RCA 103.36 APO 151.74 V2 34.870
 RC 143.344 GL 45.20 GP -51.69 ZAL 119.70 ZAP 125.45 ETS 299.04 ZAE 114.39 ETE 213.48 ZAC 117.45 ETC 195.56 CLP-159.35

PLANETOCENTRIC CONIC
 C3 40.164 VHL 6.338 DLA 50.93 RAL .62 RAD 6568.5 VEL 12.710 PTH 2.31 VHP 8.055 OPA -40.52 RAP 45.89 ECC 1.6610
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.73 14 27 41 4478.05 -25.25 212.29 248.13 44.18 15 42 19 3878.0 -30.84 206.22
 134.27 22 58 37 2940.79 -25.23 90.62 248.11 44.17 23 47 37 2340.8 -30.83 84.55
 45.73 14 27 41 4478.05 -25.25 212.29 248.13 44.18 15 42 19 3878.0 -30.84 206.22
 134.27 22 58 37 2940.79 -25.23 90.62 248.11 44.17 23 47 37 2340.8 -30.83 84.55
 45.73 14 27 41 4478.05 -25.25 212.29 248.13 44.18 15 42 19 3878.0 -30.84 206.22
 134.27 22 58 37 2940.79 -25.23 90.62 248.11 44.17 23 47 37 2340.8 -30.83 84.55

MID-COURSE EXECUTION ACCURACY
 SGT 4090.4 SGR 587.9 SG3 138.0
 RRT .7332 RRF .8929 RTF .9402
 SGB 4132.4 R23 .2896 R13 .9432
 SG1 4113.3 SG2 397.6 THA 6.07

ORBIT DETERMINATION ACCURACY
 ST 1744.5 SR 489.9 SS 602.0
 CRT .8757 CRS -.9767 CST -.9588
 LSA 1890.0 MSA 271.5 SSA 5.2
 EL1 1797.4 EL2 229.6 ALF 14.05

DIFFERENTIAL CORRECTIONS
 TDE 1.6046 TRA-2.2475 TC3-1.6238 BAU .8810
 RDE .5398 RRA -.0957 RC3 -.2349 FAU .03920
 FDE .9135 FRA -.5930 FC3 -.8449 BSP 13013
 BDE 1.6930 BRA 2.2495 BC3 1.6407 FSP -460

LAUNCH DATE MAR 2 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 419.870

RL 148.27 LAL -0.00 LOL 161.24 VL 27.321 GAL -5.38 AZL 81.86 HCA 203.43 SMA 127.16 ECC .19004 INC 8.1411 V1 30.050
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.408 GAP 7.09 A2P 97.48 TAL 204.18 TAP 47.60 RCA 102.99 APO 151.32 V2 34.880
 RC 145.608 GL 41.72 GP -46.93 ZAL 121.07 ZAP 129.65 ETS 300.83 ZAE 117.45 ETE 212.41 ZAC 120.62 ETC 195.70 CLP-159.14

PLANETOCENTRIC CONIC

C3 33.498 VHL 5.788 DLA 48.39 RAL 4.43 RAD 6568.3 VEL 12.445 PTH 2.25 VHP 7.536 DPA -35.30 RAP 45.26 ECC 1.5513
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.97 14 53 26 4406.99 -26.37 206.32 248.32 47.83 16 6 53 3807.0 -31.57 199.79
 131.03 23 3 13 2920.15 -26.36 89.74 248.30 47.83 23 51 53 2320.2 -31.56 83.21
 48.97 14 53 26 4406.99 -26.37 206.32 248.32 47.83 16 6 53 3807.0 -31.57 199.79
 131.03 23 3 13 2920.15 -26.36 89.74 248.30 47.83 23 51 53 2320.2 -31.56 83.21
 48.97 14 53 26 4406.99 -26.37 206.32 248.32 47.83 16 6 53 3807.0 -31.57 199.79
 131.03 23 3 13 2920.15 -26.36 89.74 248.30 47.83 23 51 53 2320.2 -31.56 83.21

DIFFERENTIAL CORRECTIONS

TDE 1.4717 TRA-2.0990 TC3-2.0508 BAU .9269
 RDE .4838 RRA -.0966 RC3 -.2802 FAU .04313
 FDE .8833 FRA -.5388 FC3-1.1147 BSP 13442
 BDE 1.5492 BRA 2.1012 BC3 2.0698 FSP -512

MID-COURSE EXECUTION ACCURACY

SGT 4189.0 SGR 596.1 SG3 151.5
 RRT .7682 RRF .9117 RTF .9326
 SGB 4231.2 R23 .2958 R13 .9356
 SG1 4214.2 SG2 379.3 THA 6.29

ORBIT DETERMINATION ACCURACY

ST 1734.6 SR 480.9 SS 591.1
 CRT .8858 CRS -.9838 CST -.9544
 LSA 1876.1 MSA 264.4 SSA 6.4
 EL1 1787.0 EL2 216.7 ALF 14.01

LAUNCH DATE MAR 2 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 425.693

RL 148.27 LAL -0.00 LOL 161.24 VL 27.263 GAL -5.06 AZL 82.91 HCA 206.57 SMA 126.77 ECC .19058 INC 7.0874 V1 30.050
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.376 GAP 7.30 A2P 96.35 TAL 202.51 TAP 49.09 RCA 102.61 APO 150.93 V2 34.891
 RC 147.857 GL 38.60 GP -42.76 ZAL 121.82 ZAP 133.41 ETS 302.19 ZAE 119.92 ETE 210.94 ZAC 123.54 ETC 195.43 CLP-159.39

PLANETOCENTRIC CONIC

C3 28.842 VHL 5.370 DLA 46.24 RAL 8.09 RAD 6568.2 VEL 12.256 PTH 2.20 VHP 7.196 DPA -30.64 RAP 45.14 ECC 1.4747
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.78 15 17 54 4344.79 -27.04 200.98 248.85 50.94 16 30 19 3744.8 -31.89 194.09
 128.22 23 7 59 2907.16 -27.03 89.13 248.83 50.93 23 56 26 2307.2 -31.88 82.24
 51.78 15 17 54 4344.79 -27.04 200.98 248.85 50.94 16 30 19 3744.8 -31.89 194.09
 128.22 23 7 59 2907.16 -27.03 89.13 248.83 50.93 23 56 26 2307.2 -31.88 82.24
 51.78 15 17 54 4344.79 -27.04 200.98 248.85 50.94 16 30 19 3744.8 -31.89 194.09
 128.22 23 7 59 2907.16 -27.03 89.13 248.83 50.93 23 56 26 2307.2 -31.88 82.24

DIFFERENTIAL CORRECTIONS

TDE 1.4023 TRA-1.9302 TC3-2.4403 BAU .9478
 RDE .4455 RRA -.0768 RC3 -.2960 FAU .04473
 FDE .8666 FRA -.4469 FC3-1.3425 BSP 13095
 BDE 1.4713 BRA 1.9317 BC3 2.4582 FSP -503

MID-COURSE EXECUTION ACCURACY

SGT 4239.6 SGR 584.0 SG3 159.5
 RRT .7663 RRF .9084 RTF .9217
 SGB 4279.6 R23 .3060 R13 .9246
 SG1 4263.3 SG2 373.1 THA 6.07

ORBIT DETERMINATION ACCURACY

ST 1744.2 SR 476.7 SS 589.7
 CRT .8943 CRS -.9891 CST -.9499
 LSA 1883.8 MSA 261.9 SSA 7.6
 EL1 1796.3 EL2 207.2 ALF 13.92

LAUNCH DATE MAR 2 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 431.509

RL 148.27 LAL -0.00 LOL 161.24 VL 27.205 GAL -4.74 AZL 83.76 HCA 209.73 SMA 126.39 ECC .19128 INC 6.2423 V1 30.050
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.344 GAP 7.51 A2P 95.43 TAL 200.84 TAP 50.57 RCA 102.22 APO 150.57 V2 34.902
 RC 150.092 GL 35.78 GP -39.12 ZAL 122.02 ZAP 136.77 ETS 303.29 ZAE 121.91 ETE 209.30 ZAC 126.27 ETC 194.95 CLP-159.90

PLANETOCENTRIC CONIC

C3 25.419 VHL 5.042 DLA 44.42 RAL 11.66 RAD 6568.0 VEL 12.116 PTH 2.17 VHP 6.976 DPA -26.48 RAP 45.40 ECC 1.4183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.22 15 41 18 4289.72 -27.42 196.21 249.71 53.57 16 52 47 3689.7 -31.97 189.05
 125.78 23 13 5 2899.45 -27.41 88.75 249.70 53.56 24 1 25 2299.5 -31.95 81.59
 54.22 15 41 18 4289.72 -27.42 196.21 249.71 53.57 16 52 47 3689.7 -31.97 189.05
 125.78 23 13 5 2899.45 -27.41 88.75 249.70 53.56 24 1 25 2299.5 -31.95 81.59
 54.22 15 41 18 4289.72 -27.42 196.21 249.71 53.57 16 52 47 3689.7 -31.97 189.05
 125.78 23 13 5 2899.45 -27.41 88.75 249.70 53.56 24 1 25 2299.5 -31.95 81.59

DIFFERENTIAL CORRECTIONS

TDE 1.3194 TRA-1.8016 TC3-2.8760 BAU .9832
 RDE .4055 RRA -.0667 RC3 -.3155 FAU .04662
 FDE .8163 FRA -.3759 FC3-1.5879 BSP 13607
 BDE 1.3803 BRA 1.8028 BC3 2.8932 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 4344.6 SGR 570.0 SG3 168.0
 RRT .7745 RRF .9025 RTF .9171
 SGB 4381.9 R23 .2962 R13 .9196
 SG1 4367.1 SG2 358.7 THA 5.84

ORBIT DETERMINATION ACCURACY

ST 1730.7 SR 462.1 SS 570.3
 CRT .8994 CRS -.9921 CST -.9463
 LSA 1862.6 MSA 254.6 SSA 9.0
 EL1 1780.5 EL2 196.4 ALF 13.67

LAUNCH DATE MAR 2 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 437.320

RL 148.27 LAL -0.00 LOL 161.24 VL 27.148 GAL -4.40 AZL 84.45 HCA 212.89 SMA 126.02 ECC .19211 INC 5.5456 V1 30.050
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.313 GAP 7.72 A2P 94.66 TAL 199.16 TAP 52.05 RCA 101.81 APO 150.22 V2 34.914
 RC 152.312 GL 33.22 GP -35.94 ZAL 121.73 ZAP 139.77 ETS 304.19 ZAE 123.50 ETE 207.66 ZAC 128.88 ETC 194.38 CLP-160.55

PLANETOCENTRIC CONIC

C3 22.797 VHL 4.775 DLA 42.88 RAL 15.20 RAD 6567.9 VEL 12.007 PTH 2.14 VHP 6.839 DPA -22.76 RAP 45.96 ECC 1.3752
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.35 16 3 50 4240.53 -27.63 191.96 250.90 55.80 17 14 31 3640.5 -31.91 184.58
 123.65 23 18 45 2895.28 -27.61 88.54 250.89 55.79 24 7 0 2295.3 -31.89 81.17
 56.35 16 3 50 4240.53 -27.63 191.96 250.90 55.80 17 14 31 3640.5 -31.91 184.58
 123.65 23 18 45 2895.28 -27.61 88.54 250.89 55.79 24 7 0 2295.3 -31.89 81.17
 56.35 16 3 50 4240.53 -27.63 191.96 250.90 55.80 17 14 31 3640.5 -31.91 184.58
 123.65 23 18 45 2895.28 -27.61 88.54 250.89 55.79 24 7 0 2295.3 -31.89 81.17

DIFFERENTIAL CORRECTIONS

TDE 1.2581 TRA-1.6694 TC3-3.3067 JAU 1.0126
 RDE .3753 RRA -.0550 RC3 -.3248 FAU .04752
 FDE .7667 FRA -.2972 FC3-1.8046 BSP 13991
 BDE 1.3129 BRA 1.6703 BC3 3.3226 FSP -566

MID-COURSE EXECUTION ACCURACY

SGT 4441.0 SGR 554.2 SG3 173.9
 RRT .7742 RRF .8897 RTF .9128
 SGB 4475.5 R23 .2822 R13 .9150
 SG1 4461.8 SG2 349.2 THA 5.55

ORBIT DETERMINATION ACCURACY

ST 1720.7 SR 451.3 SS 551.3
 CRT .9053 CRS -.9947 CST -.9429
 LSA 1845.8 MSA 247.7 SSA 10.5
 EL1 1769.1 EL2 186.5 ALF 13.51

LAUNCH DATE MAR 2 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 443.125

RL 148.27 LAL -.00 LOL 161.24 VL 27.090 GAL -4.06 AZL 85.04 MCA 216.06 SMA 125.64 ECC .19310 INC 4.9583 V1 30.050
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.283 GAP 7.93 AZP 94.01 TAL 197.46 TAP 53.52 RCA 101.38 APO 149.91 V2 34.926
 RC 154.516 GL 30.87 GP -33.17 ZAL 121.00 ZAP 142.45 ETS 304.92 ZAE 124.80 ETE 206.06 ZAC 131.38 ETC 193.80 CLP-161.29

PLANETOCENTRIC CONIC

C3 20.726 VHL 4.553 DLA 41.56 RAL 18.74 RAD 6567.8 VEL 11.921 PTH 2.12 VHP 6.760 DPA -19.41 RAP 46.78 ECC 1.3411
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.20 16 25 46 4196.30 -27.73 188.15 252.41 57.70 17 35 43 3596.3 -31.77 180.61
 121.80 23 25 6 2893.53 -27.71 88.46 252.40 57.69 24 13 20 2293.5 -31.76 80.93
 58.20 16 25 46 4196.30 -27.73 188.15 252.41 57.70 17 35 43 3596.3 -31.77 180.61
 121.80 23 25 6 2893.53 -27.71 88.46 252.40 57.69 24 13 20 2293.5 -31.76 80.93
 58.20 16 25 46 4196.30 -27.73 188.15 252.41 57.70 17 35 43 3596.3 -31.77 180.61
 121.80 23 25 6 2893.53 -27.71 88.46 252.40 57.69 24 13 20 2293.5 -31.76 80.93

DIFFERENTIAL CORRECTIONS

TDE 1.2128 TRA-1.5320 TC3-3.7307 BAU 1.0377
 RDE .3527 RRA -.0431 RC3 -.3269 FAU .04761
 FDE .7188 FRA -.2142 FC3-1.9887 BSP 14275
 BDE 1.2630 BRA 1.5326 BC3 3.7450 FSP -577

MID-COURSE EXECUTION ACCURACY

SGT 4528.7 SGR 539.3 SG3 177.6
 RRT .7679 RRF .8718 RTF .9086
 SGB 4560.7 R23 .2654 R13 .9105
 SG1 4547.7 SG2 344.0 THA 5.25

ORBIT DETERMINATION ACCURACY

ST 1714.0 SR 444.5 SS 533.1
 CRT .9126 CRS -.9968 CST -.9396
 LSA 1833.4 MSA 240.7 SSA 12.2
 EL1 1761.8 EL2 176.8 ALF 13.45

LAUNCH DATE MAR 2 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 448.923

RL 148.27 LAL -.00 LOL 161.24 VL 27.034 GAL -3.71 AZL 85.55 MCA 219.24 SMA 125.28 ECC .19423 INC 4.4537 V1 30.050
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.253 GAP 8.14 AZP 93.45 TAL 195.75 TAP 54.98 RCA 100.95 APO 149.61 V2 34.938
 RC 156.704 GL 28.68 GP -30.74 ZAL 119.89 ZAP 144.86 ETS 305.51 ZAE 125.85 ETE 204.56 ZAC 133.83 ETC 193.23 CLP-162.07

PLANETOCENTRIC CONIC

C3 19.054 VHL 4.365 DLA 40.43 RAL 22.34 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 6.726 DPA -16.39 RAP 47.80 ECC 1.3136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.84 16 47 18 4156.32 -27.75 184.73 254.22 59.33 17 56 34 3556.3 -31.60 177.07
 120.16 23 32 15 2893.51 -27.74 88.48 254.21 59.32 24 20 29 2293.5 -31.59 80.82
 59.84 16 47 18 4156.32 -27.75 184.73 254.22 59.33 17 56 34 3556.3 -31.60 177.07
 120.16 23 32 15 2893.51 -27.74 88.48 254.21 59.32 24 20 29 2293.5 -31.59 80.82
 59.84 16 47 18 4156.32 -27.75 184.73 254.22 59.33 17 56 34 3556.3 -31.60 177.07
 120.16 23 32 15 2893.51 -27.74 88.48 254.21 59.32 24 20 29 2293.5 -31.59 80.82

DIFFERENTIAL CORRECTIONS

TDE 1.1759 TRA-1.3926 TC3-4.1553 BAU 1.0617
 RDE .3351 RRA -.0326 RC3 -.3261 FAU .04723
 FDE .6705 FRA -.1329 FC3-2.1460 BSP 14576
 BDE 1.2227 BRA 1.3930 BC3 4.1681 FSP -585

MID-COURSE EXECUTION ACCURACY

SGT 4616.2 SGR 526.9 SG3 179.9
 RRT .7593 RRF .8506 RTF .9055
 SGB 4646.2 R23 .2447 R13 .9071
 SG1 4633.6 SG2 341.6 THA 4.98

ORBIT DETERMINATION ACCURACY

ST 1706.9 SR 440.2 SS 514.0
 CRT .9209 CRS -.9982 CST -.9366
 LSA 1821.2 MSA 232.8 SSA 13.9
 EL1 1754.8 EL2 166.9 ALF 13.48

LAUNCH DATE MAR 2 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 454.712

RL 148.27 LAL -.00 LOL 161.24 VL 26.977 GAL -3.35 AZL 85.99 MCA 222.41 SMA 124.92 ECC .19552 INC 4.0129 V1 30.050
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.224 GAP 8.36 AZP 92.96 TAL 194.03 TAP 56.44 RCA 100.50 APO 149.35 V2 34.951
 RC 158.875 GL 26.63 GP -28.61 ZAL 118.42 ZAP 147.04 ETS 305.94 ZAE 126.71 ETE 203.17 ZAC 136.22 ETC 192.67 CLP-162.89

PLANETOCENTRIC CONIC

C3 17.683 VHL 4.205 DLA 39.45 RAL 26.01 RAD 6567.7 VEL 11.793 PTH 2.09 VHP 6.724 DPA -13.66 RAP 48.99 ECC 1.2910
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.30 17 8 41 4119.85 -27.73 181.63 256.32 60.74 18 17 20 3519.8 -31.40 173.87
 118.70 23 40 11 2895.02 -27.72 88.59 256.31 60.73 24 28 26 2295.0 -31.39 80.83
 61.30 17 8 41 4119.85 -27.73 181.63 256.32 60.74 18 17 20 3519.8 -31.40 173.87
 118.70 23 40 11 2895.02 -27.72 88.59 256.31 60.73 24 28 26 2295.0 -31.39 80.83
 61.30 17 8 41 4119.85 -27.73 181.63 256.32 60.74 18 17 20 3519.8 -31.40 173.87
 118.70 23 40 11 2895.02 -27.72 88.59 256.31 60.73 24 28 26 2295.0 -31.39 80.83

DIFFERENTIAL CORRECTIONS

TDE 1.1456 TRA-1.2486 TC3-4.5749 BAU 1.0842
 RDE .3215 RRA -.0230 RC3 -.3235 FAU .04646
 FDE .6228 FRA -.0533 FC3-2.2746 BSP 14862
 BDE 1.1898 BRA 1.2488 BC3 4.5863 FSP -589

MID-COURSE EXECUTION ACCURACY

SGT 4700.4 SGR 517.3 SG3 181.0
 RRT .7485 RRF .8269 RTF .9031
 SGB 4728.8 R23 .2222 R13 .9044
 SG1 4716.4 SG2 341.9 THA 4.73

ORBIT DETERMINATION ACCURACY

ST 1699.0 SR 438.3 SS 494.4
 CRT .9303 CRS -.9988 CST -.9336
 LSA 1809.0 MSA 224.2 SSA 15.9
 EL1 1747.6 EL2 156.4 ALF 13.61

LAUNCH DATE MAR 2 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 460.492

RL 148.27 LAL -.00 LOL 161.24 VL 26.921 GAL -2.97 AZL 86.38 MCA 225.59 SMA 124.57 ECC .19698 INC 3.6224 V1 30.050
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.196 GAP 8.59 AZP 92.54 TAL 192.30 TAP 57.89 RCA 100.03 APO 149.11 V2 34.964
 RC 161.027 GL 24.68 GP -26.73 ZAL 116.62 ZAP 149.01 ETS 306.23 ZAE 127.42 ETE 201.90 ZAC 138.59 ETC 192.15 CLP-163.71

PLANETOCENTRIC CONIC

C3 16.550 VHL 4.068 DLA 38.57 RAL 29.79 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 6.748 DPA -11.17 RAP 50.33 ECC 1.2724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.63 17 30 5 4086.42 -27.66 178.80 258.72 61.97 18 38 11 3486.4 -31.18 170.96
 117.37 23 48 54 2897.90 -27.65 88.79 258.71 61.96 24 37 12 2297.9 -31.16 80.95
 62.63 17 30 5 4086.42 -27.66 178.80 258.72 61.97 18 38 11 3486.4 -31.18 170.96
 117.37 23 48 54 2897.90 -27.65 88.79 258.71 61.96 24 37 12 2297.9 -31.16 80.95
 62.63 17 30 5 4086.42 -27.66 178.80 258.72 61.97 18 38 11 3486.4 -31.18 170.96
 117.37 23 48 54 2897.90 -27.65 88.79 258.71 61.96 24 37 12 2297.9 -31.16 80.95

DIFFERENTIAL CORRECTIONS

TDE 1.1216 TRA-1.0963 TC3-4.9808 BAU 1.1043
 RDE .3116 RRA -.0133 RC3 -.3187 FAU .04530
 FDE .5779 FRA .0260 FC3-2.3695 BSP 15087
 BDE 1.1641 BRA 1.0964 BC3 4.9910 FSP -585

MID-COURSE EXECUTION ACCURACY

SGT 4777.0 SGR 510.3 SG3 180.8
 RRT .7349 RRF .8014 RTF .9007
 SGB 4804.2 R23 .2006 R13 .9019
 SG1 4791.7 SG2 345.1 THA 4.51

ORBIT DETERMINATION ACCURACY

ST 1691.5 SR 439.0 SS 475.8
 CRT .9406 CRS -.9980 CST -.9305
 LSA 1798.3 MSA 215.1 SSA 18.0
 EL1 1741.6 EL2 144.8 ALF 13.82

LAUNCH DATE MAR 2 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -1.00 LOL 161.24 VL 26.866 GAL -2.59 AZL 86.73 MCA 228.78 SMA 124.22 ECC .19862 INC 3.2719 V1 30.050
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.168 GAP 8.82 AZP 92.16 TAL 190.56 TAP 59.34 RCA 99.55 APO 148.89 V2 34.977
 RC 163.161 GL 22.81 GP -25.07 ZAL 114.52 ZAP 150.81 ETS 306.38 ZAE 128.01 ETE 200.74 ZAC 140.94 ETC 191.66 CLP-164.55

DISTANCE 466.262

PLANETOCENTRIC CONIC
 C3 15.614 VHL 3.951 CLA 37.78 RAL 33.68 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 6.794 DPA -8.89 RAP 51.79 ECC 1.2570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.87 17 51 46 4055.40 -27.55 176.17 261.40 63.06 18 59 21 3455.4 -30.93 168.28
 116.13 0 2 14 2902.43 -27.54 89.10 261.39 63.04 0 50 37 2302.4 -30.92 81.20
 63.87 17 51 46 4055.40 -27.55 176.17 261.40 63.06 18 59 21 3455.4 -30.93 168.28
 116.13 0 2 14 2902.43 -27.54 89.10 261.39 63.04 0 50 37 2302.4 -30.92 81.20
 63.87 17 51 46 4055.40 -27.55 176.17 261.40 63.06 18 59 21 3455.4 -30.93 168.28
 116.13 0 2 14 2902.43 -27.54 89.10 261.39 63.04 0 50 37 2302.4 -30.92 81.20

DIFFERENTIAL CORRECTIONS
 TDE 1.0976 TRA -.9408 TC3-5.3775 BAU 1.1244 SGT 4855.1 SGR 506.0 SG3 180.1 ST 1678.5 SR 440.6 SS 455.4
 ROE .3038 RRA -.0045 RC3 -.3148 FAU .04400 RRT .7215 RRF .7755 RTF .8997 CRT .9511 CRS -.9954 CST -.9270
 FDE .5323 FRA .0997 FC3-2.4399 BSP 15356 SGB 4881.4 R23 .1777 R13 .9006 LSA 1782.2 MSA 205.0 SSA 20.3
 BDE 1.1389 BRA .9408 BC3 5.3867 FSP -583 SG1 4868.9 SG2 349.3 THA 4.32 EL1 1730.3 EL2 132.1 ALF 14.10

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 2 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -1.00 LOL 161.24 VL 26.811 GAL -2.19 AZL 87.05 MCA 231.97 SMA 123.88 ECC .20044 INC 2.9539 V1 30.050
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.141 GAP 9.05 AZP 91.82 TAL 188.81 TAP 60.78 RCA 99.05 APO 148.71 V2 34.990
 RC 165.276 GL 21.00 GP -23.60 ZAL 112.14 ZAP 152.45 ETS 306.38 ZAE 128.51 ETE 199.69 ZAC 143.29 ETC 191.19 CLP-165.38

DISTANCE 472.020

PLANETOCENTRIC CONIC
 C3 14.847 VHL 3.853 CLA 37.03 RAL 37.71 RAD 6567.6 VEL 11.672 PTH 2.05 VHP 6.857 DPA -6.81 RAP 53.37 ECC 1.2443
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.06 18 13 57 4026.18 -27.39 173.70 264.37 64.03 19 21 3 3426.2 -30.64 165.76
 114.94 0 12 11 2909.01 -27.37 89.54 264.36 64.02 1 0 40 2309.0 -30.63 81.60
 65.06 18 13 57 4026.18 -27.39 173.70 264.37 64.03 19 21 3 3426.2 -30.64 165.76
 114.94 0 12 11 2909.01 -27.37 89.54 264.36 64.02 1 0 40 2309.0 -30.63 81.60
 65.06 18 13 57 4026.18 -27.39 173.70 264.37 64.03 19 21 3 3426.2 -30.64 165.76
 114.94 0 12 11 2909.01 -27.37 89.54 264.36 64.02 1 0 40 2309.0 -30.63 81.60

DIFFERENTIAL CORRECTIONS
 TDE 1.0721 TRA -.7785 TC3-5.7564 BAU 1.1442 SGT 4931.8 SGR 503.5 SG3 178.9 ST 1657.8 SR 442.7 SS 433.3
 ROE .2977 RRA .0043 RC3 -.3112 FAU .04259 RRT .7079 RRF .7497 RTF .8994 CRT .9614 CRS -.9902 CST -.9226
 FDE .4862 FRA .1702 FC3-2.4836 BSP 15637 SGB 4957.4 R23 .1553 R13 .9002 LSA 1759.0 MSA 194.2 SSA 23.1
 BDE 1.1127 BRA .7785 BC3 5.7648 FSP -580 SG1 4944.7 SG2 354.7 THA 4.16 EL1 1711.9 EL2 118.0 ALF 14.47

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 2 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -1.00 LOL 161.24 VL 26.757 GAL -1.78 AZL 87.74 MCA 235.16 SMA 123.55 ECC .20245 INC 2.6622 V1 30.050
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.114 GAP 9.29 AZP 91.52 TAL 187.06 TAP 62.22 RCA 98.53 APO 148.56 V2 35.003
 RC 167.370 GL 19.23 GP -22.30 ZAL 109.49 ZAP 153.97 ETS 306.23 ZAE 128.94 ETE 198.74 ZAC 145.62 ETC 190.74 CLP-166.21

DISTANCE 477.767

PLANETOCENTRIC CONIC
 C3 14.230 VHL 3.772 CLA 36.31 RAL 41.87 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 6.935 DPA -4.88 RAP 55.05 ECC 1.2342
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.26 18 36 53 3998.09 -27.16 171.31 267.61 64.92 19 43 31 3398.1 -30.30 163.33
 113.74 0 22 28 2918.28 -27.15 90.17 267.60 64.90 1 11 6 2318.3 -30.29 82.19
 66.26 18 36 53 3998.09 -27.16 171.31 267.61 64.92 19 43 31 3398.1 -30.30 163.33
 113.74 0 22 28 2918.28 -27.15 90.17 267.60 64.90 1 11 6 2318.3 -30.29 82.19
 66.26 18 36 53 3998.09 -27.16 171.31 267.61 64.92 19 43 31 3398.1 -30.30 163.33
 113.74 0 22 28 2918.28 -27.15 90.17 267.60 64.90 1 11 6 2318.3 -30.29 82.19

DIFFERENTIAL CORRECTIONS
 TDE 1.0475 TRA -.6045 TC3-6.0952 BAU 1.1610 SGT 4997.6 SGR 503.0 SG3 176.8 ST 1633.1 SR 446.2 SS 412.8
 ROE .2937 RRA .0140 RC3 -.3060 FAU .04094 RRT .6927 RRF .7246 RTF .8987 CRT .9715 CRS -.9813 CST -.9171
 FDE .4430 FRA .2410 FC3-2.4905 BSP 15813 SGB 5022.8 R23 .1370 R13 .8994 LSA 1732.7 MSA 183.6 SSA 26.1
 BDE 1.0879 BRA .6047 BC3 6.1028 FSP -569 SG1 5009.8 SG2 361.8 THA 4.01 EL1 1689.9 EL2 102.2 ALF 14.92

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 2 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC
 RL 148.27 LAL -1.00 LOL 161.24 VL 26.703 GAL -1.36 AZL 88.61 MCA 238.35 SMA 123.22 ECC .20467 INC 2.3920 V1 30.050
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.088 GAP 9.54 AZP 91.26 TAL 185.30 TAP 63.65 RCA 98.00 APO 148.44 V2 35.016
 RC 169.445 GL 17.48 GP -21.13 ZAL 106.61 ZAP 155.36 ETS 305.93 ZAE 129.31 ETE 197.88 ZAC 147.96 ETC 190.31 CLP-167.03

DISTANCE 483.500

PLANETOCENTRIC CONIC
 C3 13.754 VHL 3.709 CLA 35.58 RAL 46.16 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 7.027 DPA -3.11 RAP 56.82 ECC 1.2264
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.49 19 0 48 3970.33 -26.86 168.94 271.11 65.74 20 6 58 3370.3 -29.90 160.94
 112.51 0 32 46 2931.08 -26.85 91.04 271.11 65.72 1 21 38 2331.1 -29.89 83.04
 67.49 19 0 48 3970.33 -26.86 168.94 271.11 65.74 20 6 58 3370.3 -29.90 160.94
 112.51 0 32 46 2931.08 -26.85 91.04 271.11 65.72 1 21 38 2331.1 -29.89 83.04
 67.49 19 0 48 3970.33 -26.86 168.94 271.11 65.74 20 6 58 3370.3 -29.90 160.94
 112.51 0 32 46 2931.08 -26.85 91.04 271.11 65.72 1 21 38 2331.1 -29.89 83.04

DIFFERENTIAL CORRECTIONS
 TDE 1.0138 TRA -.4271 TC3-6.4052 BAU 1.1791 SGT 5067.8 SGR 503.3 SG3 174.7 ST 1591.5 SR 448.5 SS 388.1
 ROE .2901 RRA .0234 RC3 -.3027 FAU .03935 RRT .6794 RRF .7006 RTF .8998 CRT .9804 CRS -.9673 CST -.9094
 FDE .3966 FRA .3050 FC3-2.4772 BSP 16081 SGB 5092.7 R23 .1173 R13 .9004 LSA 1689.3 MSA 172.7 SSA 29.7
 BDE 1.0545 BRA .4278 BC3 6.4124 FSP -565 SG1 5079.4 SG2 368.4 THA 3.88 EL1 1651.3 EL2 85.1 ALF 15.49

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 2 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 489.219

RL 148.27 LAL -1.00 LOL 161.24 VL 26.650 GAL -1.92 AZL 87.86 MCA 241.55 SMA 122.89 ECC .20711 INC 2.1397 V1 30.050
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.062 GAP 9.80 AZP 91.02 TAL 183.54 TAP 65.09 RCA 97.44 APO 148.35 V2 35.030
 RC 171.498 GL 15.76 GP -20.09 ZAL 103.51 ZAP 156.65 ETS 305.48 ZAE 129.63 ETE 197.10 ZAC 150.31 ETC 189.88 CLP -167.84

PLANETOCENTRIC CONIC

C3 13.412 VHL 3.662 CLA 34.82 RAL 50.57 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 7.131 DPA -1.47 RAP 58.66 ECC 1.2207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.83 19 25 57 3941.98 -26.47 166.50 274.87 66.50 20 31 39 3342.0 -29.41 158.50
 111.17 0 42 45 2948.43 -26.46 92.22 274.86 66.49 1 31 53 2348.4 -29.40 84.21
 68.83 19 25 57 3941.98 -26.47 166.50 274.87 66.50 20 31 39 3342.0 -29.41 158.50
 111.17 0 42 45 2948.43 -26.46 92.22 274.86 66.49 1 31 53 2348.4 -29.40 84.21
 68.83 19 25 57 3941.98 -26.47 166.50 274.87 66.50 20 31 39 3342.0 -29.41 158.50
 111.17 0 42 45 2948.43 -26.46 92.22 274.86 66.49 1 31 53 2348.4 -29.40 84.21

DIFFERENTIAL CORRECTIONS

TDE .9726 TRA -.2415 TC3-6.6672 BAU 1.1966
 RDE .2874 RRA .0333 RC3 -.2990 FAU .03773
 FDE .3493 FRA .3661 FC3-2.4356 BSP 16357
 BDE 1.0142 BRA .2438 BC3 6.6739 FSP -560

MID-COURSE EXECUTION ACCURACY

SGT 5135.6 SGR 504.2 SG3 172.1
 RRT .6661 RRF .6778 RTF .9015
 SGB 5160.3 R23 .0993 R13 .9020
 SG1 5146.6 SG2 375.2 THA 3.76

ORBIT DETERMINATION ACCURACY

ST 1535.0 SR 450.1 SS 362.0
 CRT .9880 CRS -.9454 CST -.8986
 LSA 1631.6 MSA 162.9 SSA 33.7
 EL1 1598.2 EL2 66.9 ALF 16.19

LAUNCH DATE MAR 2 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 494.921

RL 148.27 LAL -1.00 LOL 161.24 VL 26.598 GAL -1.47 AZL 88.10 MCA 244.75 SMA 122.58 ECC .20979 INC 1.9020 V1 30.050
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.037 GAP 10.07 AZP 90.81 TAL 181.77 TAP 66.52 RCA 96.86 APO 148.29 V2 35.043
 RC 173.532 GL 14.06 GP -19.15 ZAL 100.22 ZAP 157.85 ETS 304.87 ZAE 129.92 ETE 196.40 ZAC 152.65 ETC 189.46 CLP -168.65

PLANETOCENTRIC CONIC

C3 13.201 VHL 3.633 CLA 34.02 RAL 55.07 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 7.247 DPA .05 RAP 60.58 ECC 1.2173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.31 19 52 41 3911.89 -25.99 163.91 278.85 67.23 20 57 52 3311.9 -28.84 155.91
 109.69 0 51 55 2971.67 -25.97 93.81 278.85 67.22 1 41 27 2371.7 -28.83 85.80
 70.31 19 52 41 3911.89 -25.99 163.91 278.85 67.23 20 57 52 3311.9 -28.84 155.91
 109.69 0 51 55 2971.67 -25.97 93.81 278.85 67.22 1 41 27 2371.7 -28.83 85.80
 110.00 1 19 10 2888.54 -28.04 88.24 279.76 69.60 2 7 19 2288.5 -30.55 79.95
 110.00 0 28 32 3043.02 -23.96 98.38 277.86 64.85 1 19 15 2443.0 -27.14 90.66

DIFFERENTIAL CORRECTIONS

TDE .9261 TRA -.0432 TC3-6.8578 BAU 1.2114
 RDE .2860 RRA .0446 RC3 -.2930 FAU .03595
 FDE .3042 FRA .4283 FC3-2.3579 BSP 16559
 BDE .9693 BRA .0620 BC3 6.8641 FSP -550

MID-COURSE EXECUTION ACCURACY

SGT 5193.6 SGR 505.9 SG3 169.1
 RRT .6519 RRF .6568 RTF .9024
 SGB 5218.2 R23 .0861 R13 .9028
 SG1 5204.2 SG2 382.8 THA 3.65

ORBIT DETERMINATION ACCURACY

ST 1468.3 SR 451.7 SS 338.6
 CRT .9935 CRS -.9122 CST -.8843
 LSA 1564.8 MSA 156.6 SSA 37.8
 EL1 1535.4 EL2 49.3 ALF 17.01

LAUNCH DATE MAR 2 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 500.622

RL 148.27 LAL -1.00 LOL 161.24 VL 26.546 GAL -1.00 AZL 88.32 MCA 247.95 SMA 122.26 ECC .21273 INC 1.6763 V1 30.050
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.012 GAP 10.35 AZP 90.63 TAL 180.01 TAP 67.96 RCA 96.25 APO 148.27 V2 35.056
 RC 175.544 GL 12.38 GP -18.30 ZAL 96.78 ZAP 158.97 ETS 304.09 ZAE 130.18 ETE 195.77 ZAC 155.00 ETC 189.01 CLP -169.46

PLANETOCENTRIC CONIC

C3 13.127 VHL 3.623 CLA 33.15 RAL 59.61 RAD 6567.5 VEL 11.598 PTH 2.03 VHP 7.375 DPA 1.45 RAP 62.56 ECC 1.2160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.00 20 21 17 3878.54 -25.39 161.05 283.02 67.93 21 25 55 3278.5 -28.15 153.06
 108.00 0 59 35 3002.57 -25.38 95.93 283.02 67.92 1 49 37 2402.6 -28.14 87.94
 72.00 20 21 17 3878.54 -25.39 161.05 283.02 67.93 21 25 55 3278.5 -28.15 153.06
 108.00 0 59 35 3002.57 -25.38 95.93 283.02 67.92 1 49 37 2402.6 -28.14 87.94
 110.00 2 15 31 2769.46 -30.58 79.91 285.06 73.93 3 1 40 2169.5 -32.48 71.20
 110.00 0 8 27 3159.65 -20.40 105.56 280.49 61.96 1 1 7 2559.7 -23.98 98.25

DIFFERENTIAL CORRECTIONS

TDE .8779 TRA .0916 TC3-7.5441 BAU 1.3258
 RDE .2960 RRA .0475 RC3 -.3987 FAU .04282
 FDE .3119 FRA .4413 FC3-2.8242 BSP 21242
 BDE .9264 BRA .1032 BC3 7.5546 FSP -901

MID-COURSE EXECUTION ACCURACY

SGT 5642.8 SGR 557.3 SG3 195.6
 RRT .7138 RRF .7108 RTF .9405
 SGB 5670.2 R23 .0518 R13 .9408
 SG1 5656.9 SG2 389.3 THA 4.05

ORBIT DETERMINATION ACCURACY

ST 1398.9 SR 468.9 SS 354.6
 CRT .9949 CRS -.9127 CST -.9094
 LSA 1509.9 MSA 143.7 SSA 44.1
 EL1 1474.7 EL2 44.9 ALF 18.46

LAUNCH DATE MAR 2 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 506.270

RL 148.27 LAL -1.00 LOL 161.24 VL 26.494 GAL -1.49 AZL 88.54 MCA 251.16 SMA 121.96 ECC .21592 INC 1.4605 V1 30.050
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.988 GAP 10.64 AZP 90.47 TAL 178.23 TAP 69.39 RCA 95.62 APO 148.29 V2 35.069
 RC 177.535 GL 10.72 GP -17.54 ZAL 93.18 ZAP 160.00 ETS 303.15 ZAE 130.41 ETE 195.19 ZAC 157.37 ETC 188.54 CLP -170.25

PLANETOCENTRIC CONIC

C3 13.187 VHL 3.631 CLA 32.21 RAL 64.22 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 7.514 DPA 2.76 RAP 64.60 ECC 1.2170
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.96 20 52 24 3839.99 -24.68 157.79 287.40 68.62 21 56 24 3240.0 -27.36 149.81
 106.04 1 5 12 3043.10 -24.67 98.73 287.39 68.60 1 55 55 2443.1 -27.35 90.75
 73.96 20 52 24 3839.99 -24.68 157.79 287.40 68.62 21 56 24 3240.0 -27.36 149.81
 106.04 1 5 12 3043.10 -24.67 98.73 287.39 68.60 1 55 55 2443.1 -27.35 90.75
 110.00 2 57 49 2695.00 -31.86 74.48 289.93 76.91 3 42 44 2095.0 -33.33 65.56
 110.00 0 2 53 3236.09 -17.88 110.07 283.92 60.37 0 56 49 2636.1 -21.69 103.01

DIFFERENTIAL CORRECTIONS

TDE .8018 TRA .3821 TC3-7.0181 BAU 1.2382
 RDE .2852 RRA .0690 RC3 -.2775 FAU .03238
 FDE .2136 FRA .5445 FC3-2.1257 BSP 16872
 BDE .8510 BRA .3883 BC3 7.0235 FSP -524

MID-COURSE EXECUTION ACCURACY

SGT 5299.8 SGR 509.5 SG3 162.3
 RRT .6252 RRF .6202 RTF .9060
 SGB 5324.3 R23 .0647 R13 .9063
 SG1 5309.5 SG2 396.9 THA 3.46

ORBIT DETERMINATION ACCURACY

ST 1292.1 SR 451.6 SS 296.5
 CRT .9911 CRS -.7937 CST -.8450
 LSA 1390.4 MSA 162.4 SSA 42.8
 EL1 1367.6 EL2 56.6 ALF 19.14

LAUNCH DATE MAR 2 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 511.912

RL 148.27 LAL -0.00 LOL 161.24 VL 26.444 GAL .99 AZL 88.75 MCA 254.37 SMA 121.66 ECC .21941 INC 1.2526 V1 30.050
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.964 GAP 10.94 AZP 90.34 TAL 176.47 TAP 70.83 RCA 94.96 APO 148.35 V2 35.083
 RC 179.506 GL 9.09 GP -16.85 ZAL 89.51 ZAP 160.97 ETS 302.02 ZAE 130.62 ETE 194.67 ZAC 159.73 ETC 188.02 CLP-171.04

PLANETOCENTRIC CONIC

C3 13.395 VHL 3.660 CLA 31.20 RAL 68.80 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 7.665 DPA 3.97 RAP 66.70 ECC 1.2204
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.33 21 26 54 3792.52 -23.86 153.84 291.90 69.28 22 30 6 3192.5 -26.46 145.90
 103.67 1 7 14 3097.34 -23.84 102.49 291.89 69.26 1 58 51 2497.3 -26.45 94.55
 76.33 21 26 54 3792.52 -23.86 153.84 291.90 69.28 22 30 6 3192.5 -26.46 145.90
 103.67 1 7 14 3097.34 -23.84 102.49 291.89 69.26 1 58 51 2497.3 -26.45 94.55
 110.00 3 36 2 2634.13 -32.71 69.94 294.71 79.47 4 19 56 2034.1 -33.82 60.87
 110.00 0 1 12 3303.73 -15.57 113.94 287.65 59.18 0 56 15 2703.7 -19.54 107.07

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7163 TRA .6072 TC3-6.9854 BAU 1.2518 SGT 5351.3 SGR 509.7 SG3 158.8 ST 1180.0 SR 447.8 SS 276.9
 RDE .2846 RRA .0821 RC3 -.2689 FAU .03072 RRT .6134 RRF .6024 RTF .9086 CRT .9757 CRS -.6870 CST -.8150
 FDE .1628 FRA .5984 FC3-1.9857 BSP 17111 SGB 5375.5 R23 .0531 R13 .9088 LSA 1278.5 MSA 182.6 SSA 41.8
 BDE .7708 BRA .6127 BC3 6.9905 FSP -518 SGI 5360.5 SG2 401.9 THA 3.36 ELI 1258.7 EL2 92.1 ALF 20.43

LAUNCH DATE MAR 2 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 517.529

RL 148.27 LAL -0.00 LOL 161.24 VL 26.394 GAL 1.52 AZL 88.95 MCA 257.58 SMA 121.36 ECC .22322 INC 1.0511 V1 30.050
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.941 GAP 11.26 AZP 90.23 TAL 174.70 TAP 72.28 RCA 94.27 APO 148.45 V2 35.095
 RC 181.455 GL 7.50 GP -16.23 ZAL 85.78 ZAP 161.88 ETS 300.71 ZAE 130.82 ETE 194.20 ZAC 162.11 ETC 187.43 CLP-171.82

PLANETOCENTRIC CONIC

C3 13.758 VHL 3.709 CLA 30.11 RAL 73.32 RAD 6567.5 VEL 11.625 PTH 2.04 VHP 7.828 DPA 5.08 RAP 68.85 ECC 1.2264
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.33 22 6 46 3729.22 -22.92 148.72 296.51 69.93 23 8 55 3129.2 -25.45 140.81
 100.67 1 3 28 3172.32 -22.91 107.73 296.50 69.92 1 56 20 2572.3 -25.44 99.83
 79.33 22 6 46 3729.22 -22.92 148.72 296.51 69.93 23 8 55 3129.2 -25.45 140.81
 100.67 1 3 28 3172.32 -22.91 107.73 296.50 69.92 1 56 20 2572.3 -25.44 99.83
 110.00 4 11 52 2581.44 -33.29 65.94 299.47 81.77 4 54 53 1981.4 -34.07 56.78
 110.00 0 1 29 3368.09 -13.29 117.54 291.59 58.21 0 57 37 2768.1 -17.40 110.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6214 TRA .8443 TC3-6.8643 BAU 1.2634 SGT 5396.7 SGR 509.8 SG3 155.1 ST 1072.0 SR 443.4 SS 266.1
 RDE .2851 RRA .0961 RC3 -.2580 FAU .02905 RRT .6017 RRF .5868 RTF .9113 CRT .9401 CRS -.5519 CST -.7924
 FDE .1148 FRA .6512 FC3-1.8278 BSP 17295 SGB 5420.7 R23 .0442 R13 .9115 LSA 1169.7 MSA 216.4 SSA 38.8
 BDE .6836 BRA .8497 BC3 6.8692 FSP -508 SGI 5405.4 SG2 406.5 THA 3.27 ELI 1151.5 EL2 140.7 ALF 21.58

LAUNCH DATE MAR 2 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 523.118

RL 148.27 LAL -0.00 LOL 161.24 VL 26.344 GAL 2.07 AZL 89.15 MCA 260.79 SMA 121.07 ECC .22736 INC .8543 V1 30.050
 RP 107.94 LAP -0.84 LOP 62.03 VP 36.917 GAP 11.60 AZP 90.14 TAL 172.94 TAP 73.73 RCA 93.55 APO 148.60 V2 35.108
 RC 183.384 GL 5.96 GP -15.66 ZAL 82.04 ZAP 162.72 ETS 299.19 ZAE 131.00 ETE 193.77 ZAC 164.48 ETC 186.70 CLP-172.60

PLANETOCENTRIC CONIC

C3 14.290 VHL 3.780 CLA 28.95 RAL 77.75 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 8.004 DPA 6.11 RAP 71.04 ECC 1.2352
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.72 22 58 51 3627.32 -21.89 140.77 301.19 70.57 23 59 18 3027.3 -24.34 132.91
 96.28 0 46 46 3290.90 -21.88 116.11 301.19 70.56 1 41 37 2690.9 -24.33 108.24
 100.00 2 19 9 2994.20 -26.65 95.76 302.76 75.93 3 9 3 2394.2 -28.32 87.36
 100.00 0 13 4 3399.25 -17.27 122.12 299.20 65.22 1 9 43 2799.2 -20.47 114.78
 110.00 4 45 51 2534.84 -33.69 62.36 304.22 83.85 5 28 6 1934.8 -34.18 53.15
 110.00 0 2 52 3431.37 -10.99 121.00 295.66 57.43 1 0 3 2831.4 -15.21 114.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5178 TRA 1.0967 TC3-6.6532 BAU 1.2719 SGT 5433.8 SGR 509.5 SG3 151.3 ST 981.6 SR 438.1 SS 264.8
 RDE .2865 RRA .1111 RC3 -.2439 FAU .02729 RRT .5902 RRF .5730 RTF .9135 CRT .8710 CRS -.3986 CST -.7894
 FDE .0691 FRA .7050 FC3-1.6536 BSP 17383 SGB 5457.7 R23 .0380 R13 .9137 LSA 1074.8 MSA 263.0 SSA 34.9
 BDE .5918 BRA 1.1024 BC3 6.6577 FSP -495 SGI 5442.2 SG2 410.7 THA 3.19 ELI 1056.2 EL2 200.0 ALF 22.08

LAUNCH DATE MAR 2 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 528.674

RL 148.27 LAL -0.00 LOL 161.24 VL 26.295 GAL 2.64 AZL 89.34 MCA 264.00 SMA 120.79 ECC .23188 INC .6608 V1 30.050
 RP 107.90 LAP -0.66 LOP 65.24 VP 36.894 GAP 11.95 AZP 90.07 TAL 171.19 TAP 75.19 RCA 92.78 APO 148.80 V2 35.120
 RC 185.291 GL 4.49 GP -15.14 ZAL 78.32 ZAP 163.51 ETS 297.46 ZAE 131.16 ETE 193.38 ZAC 166.86 ETC 185.77 CLP-173.38

PLANETOCENTRIC CONIC

C3 15.006 VHL 3.874 CLA 27.74 RAL 82.06 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 8.193 DPA 7.06 RAP 73.27 ECC 1.2470
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 2 18 3306.18 -24.45 118.09 307.13 75.26 1 57 24 2706.2 -26.24 109.87
 90.00 23 17 40 3633.80 -17.16 139.31 304.47 67.13 24 18 14 3033.8 -20.11 131.88
 100.00 3 8 23 2899.71 -28.04 89.08 308.03 79.18 3 56 43 2299.7 -29.24 80.49
 100.00 23 54 16 3515.50 -13.83 129.03 302.87 63.23 24 52 51 2915.5 -17.31 121.97
 110.00 5 18 11 2493.51 -33.95 59.16 308.94 85.73 5 59 44 1893.5 -34.17 49.92
 110.00 0 4 53 3494.47 -8.66 124.40 299.83 56.80 1 3 8 2894.5 -12.97 117.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3979 TRA 1.3567 TC3-6.3826 BAU 1.2813 SGT 5471.7 SGR 507.7 SG3 147.5 ST 911.6 SR 430.8 SS 270.2
 RDE .2881 RRA .1264 RC3 -.2296 FAU .02569 RRT .5792 RRF .5591 RTF .9165 CRT .7503 CRS -.2299 CST -.8091
 FDE .0216 FRA .7555 FC3-1.4823 BSP 17566 SGB 5495.2 R23 .0309 R13 .9166 LSA 993.6 MSA 318.5 SSA 31.0
 BDE .4913 BRA 1.3626 BC3 6.3867 FSP -486 SGI 5479.6 SG2 413.3 THA 3.09 ELI 972.3 EL2 267.0 ALF 21.20

LAUNCH DATE MAR 2 1969

FLIGHT TIME 182.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 534.194

RL 148.27 LAL -.00 LOL 161.24 VL 26.247 GAL 3.24 AZL 89.53 MCA 267.22 SMA 120.51 ECC .23679 INC .4695 V1 30.050
 RP 107.87 LAP -.47 LOP 68.46 VP 36.871 GAP 12.32 AZP 90.02 TAL 169.44 TAP 76.67 RCA 91.98 APO 149.05 V2 35.132
 RC 187.175 GL 3.09 GP -14.67 ZAL 74.66 ZAP 164.23 ETS 295.52 ZAE 131.31 ETE 193.02 ZAC 169.24 ETC 184.49 CLP-174.16

PLANETOCENTRIC CONIC

C3 15.928 VHL 3.991 DLA 26.48 RAL 86.21 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 8.397 DPA 7.93 RAP 75.54 ECC 1.2621
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 57 46 3190.72 -26.21 110.09 312.56 78.89 2 50 57 2590.7 -27.48 101.65
 90.00 22 55 17 3776.12 -13.20 147.88 308.02 64.72 23 58 13 3176.1 -16.50 140.75
 100.00 3 49 11 2831.55 -28.81 84.16 313.06 81.66 4 36 23 2231.5 -29.66 75.46
 100.00 23 46 33 3610.52 -10.85 134.51 306.82 61.97 24 46 43 3010.5 -14.51 127.64
 110.00 5 48 51 2457.10 -34.10 56.32 313.65 87.40 6 29 48 1857.1 -34.08 47.08
 110.00 0 7 18 3557.73 -6.29 127.76 304.06 56.33 1 6 36 2957.7 -10.67 121.41

DIFFERENTIAL CORRECTIONS

TDE .2682 TRA 1.6306 TC3-6.0482 BAU 1.2887
 ROE .2905 RRA .1424 RC3 -.2132 FAU .02408
 FDE -.0242 FRA .8061 FC3-1.3090 BSP 17715
 BOE .3954 BRA 1.6368 BC3 6.0520 FSP -477

MID-COURSE EXECUTION ACCURACY

SGT 5504.0 SGR 505.0 SG3 143.7
 RRT .5682 RRF .5462 RTF .9192
 SGB 5527.2 R23 .0254 R13 .9193
 SG1 5511.6 SG2 415.0 THA 3.00

ORBIT DETERMINATION ACCURACY

ST 885.9 SR 422.7 SS 283.5
 CRT .5744 CRS -.0742 CST -.8538
 LSA 951.6 MSA 370.8 SSA 27.6
 EL1 923.8 EL2 331.8 ALF 17.68

LAUNCH DATE MAR 2 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 539.672

RL 148.27 LAL -.00 LOL 161.24 VL 26.200 GAL 3.86 AZL 89.72 MCA 270.44 SMA 120.24 ECC .24215 INC .2791 V1 30.050
 RP 107.83 LAP -.28 LOP 71.68 VP 36.849 GAP 12.72 AZP 90.00 TAL 167.71 TAP 78.15 RCA 91.13 APO 149.36 V2 35.144
 RC 189.037 GL 1.77 GP -14.24 ZAL 71.09 ZAP 164.90 ETS 293.34 ZAE 131.45 ETE 192.68 ZAC 171.61 ETC 182.54 CLP-174.93

PLANETOCENTRIC CONIC

C3 17.077 VHL 4.132 DLA 25.21 RAL 90.17 RAD 6567.7 VEL 11.767 PTH 2.08 VHP 8.617 DPA 8.73 RAP 77.85 ECC 1.2810
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 25 3115.85 -27.09 104.79 317.63 81.41 3 32 21 2515.9 -28.00 96.24
 90.00 22 44 17 3882.88 -10.02 154.10 311.94 63.38 23 48 59 3282.9 -13.51 147.17
 100.00 4 25 20 2777.56 -29.28 80.22 317.95 83.68 5 11 38 2177.6 -29.84 71.46
 100.00 23 42 2 3696.40 -8.06 139.36 310.90 61.12 24 43 38 3096.4 -11.85 132.63
 110.00 6 17 52 2425.51 -34.17 53.86 318.32 88.86 6 58 17 1825.5 -33.95 44.62
 110.00 0 9 56 3621.21 -3.88 131.10 308.33 56.01 1 10 17 3021.2 -8.32 124.82

DIFFERENTIAL CORRECTIONS

TDE .1277 TRA 1.9181 TC3-5.6668 BAU 1.2945
 ROE .2936 RRA .1588 RC3 -.1959 FAU .02253
 FDE -.0692 FRA .8565 FC3-1.1422 BSP 17849
 BOE .3202 BRA 1.9247 BC3 5.6702 FSP -466

MID-COURSE EXECUTION ACCURACY

SGT 5532.4 SGR 501.2 SG3 139.9
 RRT .5575 RRF .5338 RTF .9221
 SGB 5555.1 R23 .0202 R13 .9222
 SG1 5539.5 SG2 415.5 THA 2.91

ORBIT DETERMINATION ACCURACY

ST 910.4 SR 413.6 SS 302.5
 CRT .3643 CRS .0604 CST -.9037
 LSA 962.8 MSA 404.7 SSA 24.8
 EL1 925.3 EL2 379.0 ALF 11.32

LAUNCH DATE MAR 2 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 545.103

RL 148.27 LAL -.00 LOL 161.24 VL 26.153 GAL 4.52 AZL 89.91 MCA 273.66 SMA 119.98 ECC .24798 INC .0874 V1 30.050
 RP 107.79 LAP -.09 LOP 74.91 VP 36.826 GAP 13.15 AZP 89.99 TAL 165.99 TAP 79.65 RCA 90.22 APO 149.73 V2 35.155
 RC 190.875 GL .54 GP -13.85 ZAL 67.64 ZAP 165.51 ETS 290.91 ZAE 131.57 ETE 192.38 ZAC 173.97 ETC 179.15 CLP-175.71

PLANETOCENTRIC CONIC

C3 18.484 VHL 4.299 DLA 23.93 RAL 93.94 RAD 6567.7 VEL 11.826 PTH 2.09 VHP 8.854 DPA 9.45 RAP 80.18 ECC 1.3042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 9 3059.18 -27.60 100.72 322.53 83.39 4 8 8 2459.2 -28.23 92.11
 90.00 22 37 36 3976.37 -7.12 159.44 315.99 62.52 23 43 52 3376.4 -10.74 152.64
 100.00 4 58 6 2733.70 -29.56 76.99 322.75 85.36 5 43 40 2133.7 -29.89 68.20
 100.00 23 39 20 3777.08 -5.38 143.85 315.05 60.55 24 42 17 3177.1 -9.26 137.22
 110.00 6 45 11 2398.70 -34.18 51.76 322.97 90.10 7 25 9 1798.7 -33.79 42.54
 110.00 0 12 40 3684.85 -1.45 134.42 312.61 55.84 1 14 5 3084.8 -5.92 128.19

DIFFERENTIAL CORRECTIONS

TDE -.0185 TRA 2.2234 TC3-5.2438 BAU 1.2965
 ROE .2978 RRA .1759 RC3 -.1771 FAU .02093
 FDE -.1111 FRA .9082 FC3 -.9804 BSP 17898
 BOE .2984 BRA 2.2303 BC3 5.2468 FSP -454

MID-COURSE EXECUTION ACCURACY

SGT 5553.4 SGR 496.5 SG3 136.2
 RRT .5470 RRF .5227 RTF .9248
 SGB 5575.5 R23 .0167 R13 .9248
 SG1 5560.0 SG2 415.1 THA 2.82

ORBIT DETERMINATION ACCURACY

ST 982.2 SR 404.3 SS 324.9
 CRT .1653 CRS .1637 CST -.9431
 LSA 1031.1 MSA 412.5 SSA 22.4
 EL1 984.9 EL2 397.7 ALF 4.65

LAUNCH DATE MAR 2 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 550.478

RL 148.27 LAL -.00 LOL 161.24 VL 26.107 GAL 5.21 AZL 90.10 MCA 276.89 SMA 119.71 ECC .25435 INC .1028 V1 30.050
 RP 107.76 LAP .10 LOP 78.13 VP 36.804 GAP 13.60 AZP 90.01 TAL 164.28 TAP 81.17 RCA 89.26 APO 150.16 V2 35.166
 RC 192.690 GL -.60 GP -13.49 ZAL 64.33 ZAP 166.07 ETS 288.23 ZAE 131.68 ETE 192.09 ZAC 176.29 ETC 171.57 CLP-176.48

PLANETOCENTRIC CONIC

C3 20.182 VHL 4.492 DLA 22.66 RAL 97.50 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 9.111 DPA 10.09 RAP 82.53 ECC 1.3321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 53 3014.56 -27.91 97.49 327.32 84.98 4 40 7 2414.6 -28.31 88.85
 90.00 22 33 15 4062.56 -4.38 164.30 320.12 62.00 23 40 57 3462.6 -8.10 157.59
 100.00 5 28 3 2698.05 -29.73 74.35 327.47 86.74 6 13 1 2098.0 -29.87 65.55
 100.00 23 37 46 3854.31 -2.78 148.11 319.24 60.23 24 42 0 3254.3 -6.73 141.54
 110.00 7 10 47 2376.63 -34.17 50.04 327.57 91.12 7 50 24 1776.6 -33.63 40.84
 110.00 0 15 27 3748.49 .98 137.74 316.89 55.83 1 17 55 3148.5 -3.51 131.54

DIFFERENTIAL CORRECTIONS

TDE -.1769 TRA 2.5407 TC3-4.8091 BAU 1.2983
 ROE .3027 RRA .1929 RC3 -.1587 FAU .01945
 FDE -.1532 FRA .9591 FC3 -.8342 BSP 18018
 BOE .3506 BRA 2.5480 BC3 4.8117 FSP -444

MID-COURSE EXECUTION ACCURACY

SGT 5572.5 SGR 490.3 SG3 132.6
 RRT .5363 RRF .5112 RTF .9278
 SGB 5594.0 R23 .0129 R13 .9279
 SG1 5578.7 SG2 413.4 THA 2.72

ORBIT DETERMINATION ACCURACY

ST 1085.1 SR 394.2 SS 349.2
 CRT -.0054 CRS .2488 CST -.9679
 LSA 1136.9 MSA 402.4 SSA 20.4
 EL1 1085.1 EL2 394.2 ALF 179.87

LAUNCH DATE MAR 2 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 555.790

RL 148.27 LAL -.00 LOL 161.24 VL 26.061 GAL 5.95 AZL 90.30 MCA 280.12 SMA 119.46 ECC .26131 INC .2981 V1 30.050
 RP 107.73 LAP .29 LOP 81.36 VP 36.782 GAP 14.08 AZP 90.05 TAL 162.59 TAP 82.71 RCA 88.24 APO 150.67 V2 35.177
 RC 194.480 GL -1.64 GP -13.16 ZAL 61.16 ZAP 166.57 ETS 285.29 ZAE 131.78 ETE 191.83 ZAC 178.35 ETC 143.09 CLP-177.27

PLANETOCENTRIC CONIC

C3 22.214 VHL 4.713 OLA 21.42 RAL 100.84 RAD 6567.9 VEL 11.983 PTH 2.14 VHP 9.388 DPA 10.67 RAP 84.91 ECC 1.3656
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 19 27 2979.28 -28.09 94.92 332.02 86.26 5 9 6 2379.3 -28.31 86.27
 90.00 22 30 21 4143.95 -1.77 168.85 324.29 61.73 23 39 25 3543.9 -5.54 162.20
 100.00 5 55 31 2669.52 -29.82 72.24 332.12 87.85 6 40 1 2069.5 -29.80 63.43
 100.00 23 36 58 3928.95 -.25 152.21 323.44 60.11 24 42 27 3328.9 -4.23 145.68
 110.00 7 34 42 2359.24 -34.14 48.68 332.13 91.92 8 14 1 1759.2 -33.49 39.50
 110.00 0 18 13 3811.98 3.41 141.06 321.16 55.97 1 21 45 3212.0 -1.08 134.85

DIFFERENTIAL CORRECTIONS

TDE -.3439 TRA 2.8744 TC3-4.3681 BAU 1.2979
 RDE .3084 RRA .2098 RC3 -.1405 FAU .01801
 FDE -.1938 FRA 1.0105 FC3 -.7019 BSP 18127
 BOE .4619 BRA 2.8820 BC3 4.3704 FSP -434

MID-COURSE EXECUTION ACCURACY

SGT 5587.3 SGR 482.9 SG3 129.2
 RRT .5252 RRF .4999 RTF .9310
 SGB 5608.2 R23 .0098 R13 .9310
 SG1 5593.1 SG2 410.5 THA 2.61

ORBIT DETERMINATION ACCURACY

ST 1207.5 SR 383.8 SS 374.0
 CRT -.1374 CRS .3148 CST -.9819
 LSA 1268.8 MSA 384.4 SSA 18.8
 EL1 1208.8 EL2 379.8 ALF 177.23

LAUNCH DATE MAR 2 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 561.028

RL 148.27 LAL -.00 LOL 161.24 VL 26.016 GAL 6.72 AZL 90.50 MCA 283.34 SMA 119.21 ECC .26891 INC .4970 V1 30.050
 RP 107.70 LAP .48 LOP 84.58 VP 36.760 GAP 14.61 AZP 90.11 TAL 160.93 TAP 84.27 RCA 87.15 APO 151.27 V2 35.187
 RC 196.245 GL -2.59 GP -12.85 ZAL 58.17 ZAP 167.00 ETS 282.08 ZAE 131.86 ETE 191.58 ZAC 178.24 ETC 54.47 CLP-178.06

PLANETOCENTRIC CONIC

C3 24.629 VHL 4.963 OLA 20.22 RAL 103.97 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 9.690 DPA 11.18 RAP 87.29 ECC 1.4053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 46 21 2951.82 -28.19 92.92 336.65 87.25 5 35 33 2351.8 -28.28 84.26
 90.00 22 28 25 4221.79 .74 173.20 328.47 61.69 23 38 47 3621.8 -3.05 166.57
 100.00 6 20 46 2647.38 -29.87 70.59 336.71 88.71 7 4 53 2047.4 -29.73 61.79
 100.00 23 36 42 4001.47 2.21 156.19 327.66 60.18 24 43 23 3401.5 -1.78 149.67
 110.00 7 56 57 2346.45 -34.10 47.68 336.66 92.51 8 36 3 1746.4 -33.38 38.52
 110.00 0 20 56 3875.17 5.81 144.38 325.42 56.25 1 25 31 3275.2 1.33 138.15

DIFFERENTIAL CORRECTIONS

TDE -.5179 TRA 3.2273 TC3-3.9282 BAU 1.2940
 RDE .3151 RRA .2267 RC3 -.1225 FAU .01659
 FDE -.2329 FRA 1.0634 FC3 -.5832 BSP 18206
 BOE .6062 BRA 3.2352 BC3 3.9301 FSP -424

MID-COURSE EXECUTION ACCURACY

SGT 5596.9 SGR 474.3 SG3 125.8
 RRT .5139 RRF .4888 RTF .9343
 SGB 5616.9 R23 .0072 R13 .9344
 SG1 5602.2 SG2 406.5 THA 2.51

ORBIT DETERMINATION ACCURACY

ST 1337.9 SR 373.3 SS 398.6
 CRT -.2351 CRS .3652 CST -.9896
 LSA 1398.2 MSA 364.8 SSA 17.4
 EL1 1341.0 EL2 362.0 ALF 175.95

LAUNCH DATE MAR 2 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 566.180

RL 148.27 LAL -.00 LOL 161.24 VL 25.972 GAL 7.54 AZL 90.70 MCA 286.57 SMA 118.96 ECC .27724 INC .7016 V1 30.050
 RP 107.67 LAP .67 LOP 87.81 VP 36.738 GAP 15.17 AZP 90.20 TAL 159.29 TAP 85.87 RCA 85.98 APO 151.95 V2 35.196
 RC 197.986 GL -3.45 GP -12.58 ZAL 55.34 ZAP 167.37 ETS 278.61 ZAE 131.92 ETE 191.34 ZAC 176.15 ETC 29.10 CLP-178.86

PLANETOCENTRIC CONIC

C3 27.488 VHL 5.243 OLA 19.06 RAL 106.89 RAD 6568.1 VEL 12.201 PTH 2.19 VHP 10.018 DPA 11.62 RAP 89.69 ECC 1.4524
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 53 2931.18 -28.25 91.41 341.20 88.01 5 59 44 2331.2 -28.23 82.75
 90.00 22 27 10 4296.79 3.16 177.38 332.66 61.85 23 38 47 3696.8 -.63 170.75
 100.00 6 43 57 2631.07 -29.89 69.38 341.25 89.35 7 27 48 2031.1 -29.66 60.58
 100.00 23 36 47 4072.14 4.59 160.08 331.87 60.43 24 44 40 3472.1 .62 153.54
 110.00 8 17 36 2338.08 -34.08 47.03 341.15 92.89 8 56 34 1738.1 -33.30 37.88
 110.00 0 23 34 3937.88 8.16 147.70 329.67 56.69 1 29 12 3337.9 3.73 141.43

DIFFERENTIAL CORRECTIONS

TDE -.6968 TRA 3.6026 TC3-3.4964 BAU 1.2855
 RDE .3230 RRA .2434 RC3 -.1051 FAU .01516
 FDE -.2697 FRA 1.1190 FC3 -.4774 BSP 18203
 BOE .7680 BRA 3.6108 BC3 3.4980 FSP -412

MID-COURSE EXECUTION ACCURACY

SGT 5601.1 SGR 464.7 SG3 122.5
 RRT .5022 RRF .4782 RTF .9377
 SGB 5620.3 R23 .0056 R13 .9377
 SG1 5606.0 SG2 401.5 THA 2.40

ORBIT DETERMINATION ACCURACY

ST 1467.5 SR 363.0 SS 422.0
 CRT -.3059 CRS .4025 CST -.9938
 LSA 1530.8 MSA 346.2 SSA 16.3
 EL1 1471.9 EL2 344.5 ALF 175.42

LAUNCH DATE MAR 2 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 571.230

RL 148.27 LAL -.00 LOL 161.24 VL 25.929 GAL 8.41 AZL 90.91 MCA 289.80 SMA 118.73 ECC .28637 INC .9132 V1 30.050
 RP 107.64 LAP .86 LOP 91.05 VP 36.716 GAP 15.78 AZP 90.31 TAL 157.69 TAP 87.50 RCA 84.73 APO 152.73 V2 35.205
 RC 199.701 GL -4.22 GP -12.32 ZAL 52.70 ZAP 167.67 ETS 274.88 ZAE 131.96 ETE 191.12 ZAC 173.86 ETC 22.04 CLP-179.67

PLANETOCENTRIC CONIC

C3 30.866 VHL 5.556 OLA 17.96 RAL 109.60 RAD 6568.2 VEL 12.339 PTH 2.22 VHP 10.376 DPA 12.00 RAP 92.09 ECC 1.5080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 17 2916.60 -28.28 90.35 345.69 88.54 6 21 54 2316.6 -28.19 81.68
 90.00 22 26 25 4369.35 5.48 181.45 336.84 62.17 23 39 14 3769.3 1.71 174.80
 100.00 7 5 14 2620.09 -29.89 68.56 345.72 89.78 7 48 54 2020.1 -29.60 59.77
 100.00 23 37 9 4141.09 6.89 163.90 336.07 60.84 24 46 10 3541.1 2.95 157.33
 110.00 8 36 41 2333.96 -34.06 46.71 345.60 93.08 9 15 35 1734.0 -33.26 37.56
 110.00 0 26 7 3999.99 10.47 151.03 333.90 57.27 1 32 47 3400.0 6.08 144.69

DIFFERENTIAL CORRECTIONS

TDE -.8874 TRA 3.9955 TC3-3.0892 BAU 1.2753
 RDE .3317 RRA .2591 RC3 -.0890 FAU .01382
 FDE -.3068 FRA 1.1751 FC3 -.3877 BSP 18279
 BOE .9473 BRA 4.0039 BC3 3.0905 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 5602.1 SGR 453.5 SG3 119.4
 RRT .4893 RRF .4664 RTF .9415
 SGB 5620.4 R23 .0039 R13 .9415
 SG1 5606.5 SG2 395.2 THA 2.28

ORBIT DETERMINATION ACCURACY

ST 1592.7 SR 352.3 SS 444.9
 CRT -.3622 CRS .4346 CST -.9962
 LSA 1658.6 MSA 328.4 SSA 15.3
 EL1 1598.0 EL2 327.3 ALF 175.22

LAUNCH DATE MAR 2 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 576.159
 RL 148.27 LAL -0.00 LOL 161.24 VL 25.887 GAL 9.34 AZL 91.13 MCA 293.04 SMA 118.49 ECC .29642 INC 1.1337 V1 30.050
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.694 GAP 16.44 AZP 90.44 TAL 156.13 TAP 89.16 RCA 83.37 APO 153.62 V2 35.213
 RC 201.391 GL -4.91 GP -12.09 ZAL 50.22 ZAP 167.90 ETS 270.90 ZAE 131.98 ETE 190.90 ZAC 171.54 ETC 18.84 CLP 179.50

PLANETOCENTRIC CONIC

C3 34.853 VHL 5.904 DLA 16.92 RAL 112.12 RAD 6568.4 VEL 12.499 PTH 2.26 VHP 10.767 DPA 12.32 RAP 94.49 ECC 1.5736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 45 2907.48 -28.30 89.68 350.12 88.87 6 42 13 2307.5 -28.15 81.02
 90.00 22 26 0 4439.69 7.70 185.43 341.01 62.67 23 40 0 3839.7 3.97 178.73
 100.00 7 24 45 2614.01 -29.89 68.11 350.14 90.02 8 8 19 2014.0 -29.57 59.32
 100.00 23 37 41 4208.39 9.11 167.67 340.26 61.41 24 47 50 3608.4 5.22 161.04
 110.00 8 54 18 2333.83 -34.06 46.70 350.00 93.09 9 33 12 1733.8 -33.26 37.55
 110.00 0 28 33 4061.34 12.71 154.38 338.11 58.00 1 36 15 3461.3 8.39 147.94

DIFFERENTIAL CORRECTIONS

TDE-1.0859 TRA 4.4127 TC3-2.7043 BAU 1.2606 SGT 5598.5 SGR 441.1 SG3 116.3 ST 1709.7 SR 341.6 SS 467.0
 RDE .3414 RRA .2739 RC3 -.0741 FAU .01251 RRT .4753 RRF .4538 RTF .9454 CRT -.4057 CRS .4606 CST -.9976
 FDE -.3431 FRA 1.2339 FC3 -.3107 BSP 18345 SGB 5615.9 R23 .0026 R13 .9454 LSA 1777.8 MSA 311.9 SSA 14.4
 BOE 1.1383 BRA 4.4212 BC3 2.7053 FSP -393 SG1 5602.5 SG2 387.9 THA 2.16 EL1 1715.5 EL2 311.2 ALF 175.21

LAUNCH DATE MAR 2 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 580.946
 RL 148.27 LAL -0.00 LOL 161.24 VL 25.845 GAL 10.35 AZL 91.37 MCA 296.27 SMA 118.27 ECC .30748 INC 1.3652 V1 30.050
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.672 GAP 17.17 AZP 90.60 TAL 154.61 TAP 90.88 RCA 81.90 APO 154.63 V2 35.221
 RC 203.056 GL -5.53 GP -11.88 ZAL 47.92 ZAP 168.05 ETS 266.71 ZAE 131.97 ETE 190.70 ZAC 169.22 ETC 17.02 CLP 178.65

PLANETOCENTRIC CONIC

C3 39.563 VHL 6.290 DLA 15.94 RAL 114.44 RAD 6568.5 VEL 12.686 PTH 2.30 VHP 11.198 DPA 12.57 RAP 96.88 ECC 1.6511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 12 26 2903.26 -28.30 89.37 354.48 89.03 7 0 50 2303.3 -28.14 80.71
 90.00 22 25 51 4507.96 9.81 189.34 345.16 63.30 23 40 59 3908.0 6.15 182.57
 100.00 7 42 38 2612.41 -29.89 67.99 354.49 90.08 8 26 10 2012.4 -29.56 59.20
 100.00 23 38 21 4274.05 11.22 171.40 344.42 62.11 24 49 35 3674.1 7.40 164.69
 110.00 9 10 31 2337.43 -34.07 46.98 354.36 92.92 9 49 28 1737.4 -33.29 37.83
 110.00 0 30 53 4121.79 14.86 157.74 342.31 58.86 1 39 35 3521.8 10.63 151.19

DIFFERENTIAL CORRECTIONS

TDE-1.2939 TRA 4.8543 TC3-2.3448 BAU 1.2407 SGT 5589.1 SGR 427.6 SG3 113.4 ST 1816.6 SR 331.1 SS 488.4
 RDE .3522 RRA .2874 RC3 -.0606 FAU .01121 RRT .4596 RRF .4403 RTF .9495 CRT -.4410 CRS .4824 CST -.9985
 FDE -.3789 FRA 1.2959 FC3 -.2453 BSP 18379 SGB 5605.4 R23 .0021 R13 .9495 LSA 1886.8 MSA 296.6 SSA 13.6
 BOE 1.3409 BRA 4.8628 BC3 2.3456 FSP -384 SG1 5592.5 SG2 379.5 THA 2.02 EL1 1822.6 EL2 296.1 ALF 175.28

LAUNCH DATE MAR 2 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 585.561
 RL 148.27 LAL -0.00 LOL 161.24 VL 25.805 GAL 11.42 AZL 91.61 MCA 299.50 SMA 118.05 ECC .31971 INC 1.6099 V1 30.050
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.650 GAP 17.96 AZP 90.79 TAL 153.15 TAP 92.65 RCA 80.31 APO 155.79 V2 35.228
 RC 204.697 GL -6.07 GP -11.68 ZAL 45.80 ZAP 168.11 ETS 262.32 ZAE 131.94 ETE 190.49 ZAC 166.92 ETC 15.85 CLP 177.77

PLANETOCENTRIC CONIC

C3 45.136 VHL 6.718 DLA 15.03 RAL 116.58 RAD 6568.7 VEL 12.903 PTH 2.35 VHP 11.672 DPA 12.77 RAP 99.26 ECC 1.7428
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 29 28 2903.47 -28.30 89.39 358.76 89.02 7 17 52 2303.5 -28.14 80.73
 90.00 22 25 53 4574.19 11.81 193.17 349.29 64.08 23 42 7 3974.2 8.23 186.33
 100.00 7 58 58 2614.87 -29.89 68.18 358.78 89.98 8 42 32 2014.9 -29.57 59.39
 100.00 23 39 5 4338.02 13.23 175.09 348.56 62.95 24 51 23 3738.0 9.50 168.28
 110.00 9 25 23 2344.47 -34.10 47.53 358.67 92.60 10 4 27 1744.5 -33.36 38.37
 110.00 0 33 5 4181.19 16.92 161.10 346.48 59.85 1 42 46 3581.2 12.79 154.43

DIFFERENTIAL CORRECTIONS

TDE-1.5081 TRA 5.3322 TC3-2.0091 BAU 1.2127 SGT 5577.8 SGR 413.0 SG3 110.6 ST 1912.1 SR 320.7 SS 508.9
 RDE .3643 RRA .2993 RC3 -.0482 FAU .00987 RRT .4426 RRF .4257 RTF .9537 CRT -.4689 CRS .5000 CST -.9990
 FDE -.4134 FRA 1.3628 FC3 -.1894 BSP 18316 SGB 5593.1 R23 .0019 R13 .9537 LSA 1984.4 MSA 282.6 SSA 12.9
 BOE 1.5515 BRA 5.3406 BC3 2.0097 FSP -373 SG1 5580.8 SG2 370.2 THA 1.89 EL1 1918.1 EL2 282.4 ALF 175.40

LAUNCH DATE MAR 2 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 589.970
 RL 148.27 LAL -0.00 LOL 161.24 VL 25.765 GAL 12.59 AZL 91.87 MCA 302.74 SMA 117.83 ECC .33325 INC 1.8710 V1 30.050
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.628 GAP 18.84 AZP 91.01 TAL 151.75 TAP 94.49 RCA 78.56 APO 157.10 V2 35.235
 RC 206.313 GL -6.55 GP -11.49 ZAL 43.84 ZAP 168.09 ETS 257.78 ZAE 131.86 ETE 190.29 ZAC 164.64 ETC 15.04 CLP 176.87

PLANETOCENTRIC CONIC

C3 51.746 VHL 7.193 DLA 14.18 RAL 118.54 RAD 6568.9 VEL 13.157 PTH 2.40 VHP 12.196 DPA 12.91 RAP 101.61 ECC 1.8516
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 57 2907.64 -28.30 89.69 2.97 88.87 7 33 25 2307.6 -28.15 81.03
 90.00 22 26 3 4638.35 13.69 196.95 353.37 64.97 23 43 21 4038.3 10.20 190.01
 100.00 8 13 50 2621.00 -29.89 68.63 2.99 89.74 8 57 31 2021.0 -29.61 59.84
 100.00 23 39 51 4400.22 15.13 178.73 352.66 63.91 24 53 11 3800.2 11.50 171.82
 110.00 9 38 58 2354.63 -34.12 48.32 2.91 92.13 10 18 12 1754.6 -33.45 39.15
 110.00 0 35 9 4239.35 18.88 164.48 350.61 60.96 1 45 48 3639.4 14.86 157.67

DIFFERENTIAL CORRECTIONS

TDE-1.7373 TRA 5.8368 TC3-1.7051 BAU 1.1798 SGT 5561.0 SGR 397.1 SG3 107.8 ST 1997.4 SR 310.2 SS 530.0
 RDE .3775 RRA .3088 RC3 -.0375 FAU .00859 RRT .4223 RRF .4080 RTF .9581 CRT -.4947 CRS .5177 CST -.9994
 FDE -.4495 FRA 1.4330 FC3 -.1437 BSP 18345 SGB 5575.1 R23 .0019 R13 .9581 LSA 2072.2 MSA 268.9 SSA 12.2
 BOE 1.7778 BRA 5.8449 BC3 1.7055 FSP -364 SG1 5563.5 SG2 359.8 THA 1.73 EL1 2003.4 EL2 268.8 ALF 175.53

LAUNCH DATE MAR 2 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 594.127

RL 148.27 LAL -1.00 LOL 161.24 VL 25.727 GAL 13.85 AZL 92.15 HCA 305.97 SMA 117.62 ECC .34830 INC 2.1519 V1 30.050
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.607 GAP 19.80 AZP 91.26 TAL 150.43 TAP 96.41 RCA 76.66 APO 158.59 V2 35.240
 RC 207.904 GL -6.98 GP -11.33 ZAL 42.06 ZAP 167.97 ETS 253.14 ZAE 131.75 ETE 190.09 ZAC 162.40 ETC 14.46 CLP 175.93

PLANETOCENTRIC CONIC

C3 59.616 VHL 7.721 DLA 13.40 RAL 120.33 RAD 6569.1 VEL 13.453 PTH 2.46 VHP 12.780 DPA 13.00 RAP 103.93 ECC 1.9811
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 58 2915.34 -28.28 90.26 7.07 88.59 7 47 33 2315.3 -28.18 81.59
 90.00 22 26 18 4700.36 15.44 200.66 357.40 65.97 23 44 38 4100.4 12.06 193.61
 100.00 8 27 19 2630.41 -29.89 69.33 7.11 89.37 9 11 9 2030.4 -29.65 60.54
 100.00 23 40 38 4460.52 16.90 182.33 356.71 64.97 24 54 58 3860.5 13.39 175.30
 110.00 9 51 18 2367.60 -34.15 49.33 7.07 91.53 10 30 46 1767.6 -33.56 40.14
 110.00 0 37 4 4296.10 20.72 167.85 354.70 62.18 1 48 40 3696.1 16.83 160.88

DIFFERENTIAL CORRECTIONS

TDE-1.9786 TRA 6.3786 TC3-1.4277 BAU 1.1381
 RDE .3921 RRA .3156 RC3 -.0281 FAU .00728
 FDE -.4860 FRA 1.5087 FC3 -.1057 BSP 18350
 BDE 2.0171 BRA 6.3864 BC3 1.4280 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 5540.0 SGR 380.1 SG3 105.2
 RRT .3989 RRF .3874 RTF .9624
 SGB 5553.1 R23 .0022 R13 .9624
 SGI 5542.1 SG2 348.5 THA 1.57

ORBIT DETERMINATION ACCURACY

ST 2071.5 SR 299.8 SS 551.3
 CRT -.5180 CRS .5344 CST -.9996
 LSA 2149.2 MSA 255.8 SSA 11.5
 EL1 2077.4 EL2 255.7 ALF 175.65

LAUNCH DATE MAR 2 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 597.977

RL 148.27 LAL -1.00 LOL 161.24 VL 25.689 GAL 15.23 AZL 92.46 HCA 309.21 SMA 117.43 ECC .36508 INC 2.4569 V1 30.050
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.586 GAP 20.88 AZP 91.55 TAL 149.20 TAP 98.41 RCA 74.56 APO 160.29 V2 35.246
 RC 209.470 GL -7.35 GP -11.17 ZAL 40.44 ZAP 167.75 ETS 248.44 ZAE 131.59 ETE 189.89 ZAC 160.19 ETC 14.01 CLP 174.94

PLANETOCENTRIC CONIC

C3 69.031 VHL 8.308 DLA 12.68 RAL 121.94 RAD 6569.3 VEL 13.798 PTH 2.52 VHP 13.431 DPA 13.04 RAP 106.21 ECC 2.1361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 34 2926.17 -28.26 91.05 11.07 88.19 8 0 20 2326.2 -28.22 82.38
 90.00 22 26 35 4760.07 17.06 204.29 1.36 67.05 23 45 56 4160.1 13.81 197.13
 100.00 8 39 27 2642.74 -29.87 70.25 11.12 88.89 9 23 30 2042.7 -29.71 61.45
 100.00 23 41 23 4518.74 18.54 185.88 .69 66.12 24 56 42 3918.7 15.16 178.72
 110.00 10 2 27 2383.05 -34.17 50.54 11.13 90.82 10 42 10 1783.1 -33.68 41.33
 110.00 0 38 49 4351.19 22.43 171.21 358.73 63.50 1 51 20 3751.2 18.69 164.07

DIFFERENTIAL CORRECTIONS

TDE-2.2334 TRA 6.9623 TC3-1.1763 BAU 1.0858
 RDE .4082 RRA .3190 RC3 -.0201 FAU .00591
 FDE -.5235 FRA 1.5910 FC3 -.0741 BSP 18337
 BDE 2.2704 BRA 6.9696 BC3 1.1765 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 5514.8 SGR 362.2 SG3 102.6
 RRT .3711 RRF .3628 RTF .9668
 SGB 5526.7 R23 .0028 R13 .9668
 SGI 5516.4 SG2 336.3 THA 1.40

ORBIT DETERMINATION ACCURACY

ST 2134.3 SR 289.5 SS 573.4
 CRT -.5400 CRS .5508 CST -.9997
 LSA 2215.6 MSA 243.1 SSA 10.9
 EL1 2140.1 EL2 243.0 ALF 175.76

LAUNCH DATE MAR 2 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 601.446

RL 148.27 LAL -1.00 LOL 161.24 VL 25.654 GAL 16.75 AZL 92.79 HCA 312.45 SMA 117.23 ECC .38385 INC 2.7915 V1 30.050
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.565 GAP 22.09 AZP 91.88 TAL 148.09 TAP 100.53 RCA 72.23 APO 162.23 V2 35.250
 RC 211.012 GL -7.67 GP -11.02 ZAL 38.99 ZAP 167.42 ETS 243.73 ZAE 131.37 ETE 189.68 ZAC 158.04 ETC 13.68 CLP 173.90

PLANETOCENTRIC CONIC

C3 80.354 VHL 8.964 DLA 12.04 RAL 123.39 RAD 6569.6 VEL 14.202 PTH 2.59 VHP 14.162 DPA 13.04 RAP 108.43 ECC 2.3224
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 22 49 2939.75 -28.23 92.04 14.94 87.69 8 11 49 2339.7 -28.25 83.37
 90.00 22 26 54 4817.29 18.54 207.84 5.22 68.21 23 47 11 4217.3 15.42 200.55
 100.00 8 50 18 2657.61 -29.85 71.35 15.00 88.31 9 34 35 2057.6 -29.76 62.55
 100.00 23 42 6 4574.66 20.04 189.35 4.57 67.35 24 58 21 3974.7 16.80 182.06
 110.00 10 12 25 2400.67 -34.18 51.92 15.08 90.01 10 52 25 1800.7 -33.80 42.69
 110.00 0 40 25 4404.37 24.01 174.54 2.68 64.90 1 53 49 3804.4 20.43 167.23

DIFFERENTIAL CORRECTIONS

TDE-2.5002 TRA 7.5969 TC3 -.9479 BAU 1.0184
 RDE .4263 RRA .3181 RC3 -.0135 FAU .00442
 FDE -.5616 FRA 1.6819 FC3 -.0476 BSP 18229
 BDE 2.5363 BRA 7.6036 BC3 .9480 FSP -337

MID-COURSE EXECUTION ACCURACY

SGT 5485.7 SGR 343.6 SG3 100.2
 RRT .3384 RRF .3333 RTF .9710
 SGB 5496.4 R23 .0038 R13 .9710
 SGI 5486.9 SG2 323.3 THA 1.22

ORBIT DETERMINATION ACCURACY

ST 2185.2 SR 279.5 SS 596.4
 CRT -.5607 CRS .5669 CST -.9998
 LSA 2270.6 MSA 230.9 SSA 10.3
 EL1 2190.9 EL2 230.9 ALF 175.85

LAUNCH DATE MAR 2 1969

FLIGHT TIME 212.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 604.441

RL 148.27 LAL -1.00 LOL 161.24 VL 25.619 GAL 18.43 AZL 93.16 HCA 315.68 SMA 117.05 ECC .40492 INC 3.1627 V1 30.050
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.544 GAP 23.45 AZP 92.26 TAL 147.10 TAP 102.79 RCA 69.66 APO 164.45 V2 35.254
 RC 212.528 GL -7.95 GP -10.89 ZAL 37.71 ZAP 166.97 ETS 239.05 ZAE 131.08 ETE 189.46 ZAC 155.95 ETC 13.42 CLP 172.79

PLANETOCENTRIC CONIC

C3 94.063 VHL 9.699 DLA 11.47 RAL 124.67 RAD 6569.8 VEL 14.677 PTH 2.66 VHP 14.986 DPA 13.00 RAP 110.59 ECC 2.5480
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 32 42 2955.72 -28.18 93.21 18.65 87.11 8 21 58 2355.7 -28.28 84.54
 90.00 22 27 11 4871.74 19.89 211.27 8.95 69.42 23 48 23 4271.7 16.91 203.86
 100.00 8 59 50 2674.70 -29.81 72.62 18.73 87.64 9 44 25 2074.7 -29.82 63.82
 100.00 23 42 45 4627.99 21.41 192.72 8.33 68.62 24 59 53 4028.0 18.31 185.30
 110.00 10 21 11 2420.14 -34.17 53.44 18.88 89.11 11 1 31 1820.1 -33.92 44.20
 110.00 0 41 49 4455.32 25.44 177.80 6.51 66.36 1 56 4 3855.3 22.02 170.32

DIFFERENTIAL CORRECTIONS

TDE-2.7895 TRA 8.2806 TC3 -.7454 BAU .9374
 RDE .4464 RRA .3119 RC3 -.0082 FAU .00285
 FDE -.6030 FRA 1.7809 FC3 -.0263 BSP 18213
 BDE 2.8250 BRA 8.2865 BC3 .7454 FSP -330

MID-COURSE EXECUTION ACCURACY

SGT 5451.7 SGR 324.3 SG3 97.8
 RRT .2979 RRF .2960 RTF .9751
 SGB 5461.4 R23 .0047 R13 .9751
 SGI 5452.6 SG2 309.5 THA 1.02

ORBIT DETERMINATION ACCURACY

ST 2227.1 SR 269.7 SS 621.8
 CRT -.5830 CRS .5852 CST -.9999
 LSA 2317.6 MSA 218.6 SSA 9.7
 EL1 2232.7 EL2 218.6 ALF 175.92

LAUNCH DATE MAR 2 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 606.838

RL 148.27 LAL -.00 LOL 161.24 VL 25.587 GAL 20.30 AZL 93.58 HCA 318.92 SMA 116.88 ECC .42867 INC 3.5796 V1 30.050
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.524 GAP 24.99 AZP 92.70 TAL 146.28 TAP 105.20 RCA 66.78 APO 166.99 V2 35.256
 RC 214.018 GL -8.18 GP -10.75 ZAL 36.61 ZAP 166.38 ETS 234.45 ZAE 130.70 ETE 189.22 ZAC 153.94 ETC 13.22 CLP 171.60

PLANETOCENTRIC CONIC

C3 110.784 VHL 10.525 DLA 10.97 RAL 125.77 RAD 6570.1 VEL 15.236 PTH 2.73 VHP 15.921 DPA 12.93 RAP 112.67 ECC 2.8232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 14 2973.77 -28.11 94.52 22.18 86.46 8 30 47 2373.8 -28.31 85.86
 90.00 22 27 26 4923.10 21.08 214.56 12.52 70.64 23 49 29 4323.1 18.25 207.03
 100.00 9 8 4 2693.70 -29.75 74.03 22.29 86.90 9 52 58 2093.7 -29.86 65.23
 100.00 23 43 17 4678.40 22.62 195.98 11.93 69.92 25 1 15 4078.4 19.68 188.41
 110.00 10 28 46 2441.17 -34.14 55.08 22.51 88.13 11 9 27 1841.2 -34.02 45.84
 110.00 0 43 0 4503.70 26.72 180.98 10.18 67.84 1 58 4 3903.7 23.48 173.32

DIFFERENTIAL CORRECTIONS

TDE-3.0982 TRA 9.0261 TC3 -.5645 BAU .8361
 RDE .4692 RRA .2990 RC3 -.0041 FAU .00109
 FDE -.6471 FRA 1.8911 FC3 -.0085 BSP 18167
 BDE 3.1335 BRA 9.0311 BC3 .5645 FSP -322

MID-COURSE EXECUTION ACCURACY

SGT 5413.4 SGR 304.6 SG3 95.6
 RRT .2482 RRF .2493 RTF .9790
 SGB 5422.0 R23 .0058 R13 .9790
 SG1 5413.9 SG2 295.1 THA .80

ORBIT DETERMINATION ACCURACY

ST 2258.3 SR 260.2 SS 649.6
 CRT -.6060 CRS .6048 CST -.9999
 LSA 2355.2 MSA 206.5 SSA 9.2
 EL1 2263.9 EL2 206.5 ALF 175.97

LAUNCH DATE MAR 2 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 608.477

RL 148.27 LAL -.00 LOL 161.24 VL 25.557 GAL 22.39 AZL 94.05 HCA 322.15 SMA 116.72 ECC .45553 INC 4.0543 V1 30.050
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.505 GAP 26.74 AZP 93.20 TAL 145.66 TAP 107.81 RCA 63.55 APO 169.89 V2 35.259
 RC 215.482 GL -8.38 GP -10.63 ZAL 35.70 ZAP 165.66 ETS 229.94 ZAE 130.22 ETE 188.97 ZAC 152.02 ETC 13.08 CLP 170.31

PLANETOCENTRIC CONIC

C3 131.349 VHL 11.461 DLA 10.54 RAL 126.68 RAD 6570.4 VEL 15.896 PTH 2.81 VHP 16.989 DPA 12.83 RAP 114.65 ECC 3.1617
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 48 20 2993.64 -28.02 95.97 25.49 85.74 8 38 13 2393.6 -28.32 87.32
 90.00 22 27 36 4970.98 22.13 217.68 15.88 71.87 23 50 27 4371.0 19.44 210.04
 100.00 9 14 55 2714.36 -29.66 75.56 25.62 86.10 10 0 10 2114.4 -29.89 66.76
 100.00 23 43 42 4725.49 23.69 199.07 15.32 71.21 25 2 27 4125.5 20.90 191.38
 110.00 10 35 5 2463.53 -34.08 56.82 25.93 87.10 11 16 8 1863.5 -34.10 47.58
 110.00 0 43 57 4549.09 27.85 184.03 13.66 69.33 1 59 47 3949.1 24.78 176.20

DIFFERENTIAL CORRECTIONS

TDE-3.4292 TRA 9.8413 TC3 -.4040 BAU .7094
 RDE .4952 RRA .2778 RC3 -.0012 FAU-.00094
 FDE -.6946 FRA 2.0142 FC3 .0062 BSP 18109
 BDE 3.4648 BRA 9.8452 BC3 .4040 FSP -315

MID-COURSE EXECUTION ACCURACY

SGT 5370.4 SGR 285.0 SG3 93.5
 RRT .1863 RRF .1904 RTF .9827
 SGB 5378.0 R23 .0069 R13 .9827
 SG1 5370.7 SG2 280.0 THA .57

ORBIT DETERMINATION ACCURACY

ST 2279.0 SR 251.2 SS 680.6
 CRT -.6303 CRS .6263 CST -.9999
 LSA 2383.7 MSA 194.7 SSA 8.6
 EL1 2284.5 EL2 194.5 ALF 176.00

LAUNCH DATE MAR 2 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

DISTANCE 609.144

RL 148.27 LAL -.00 LOL 161.24 VL 25.529 GAL 24.75 AZL 94.60 HCA 325.38 SMA 116.58 ECC .48600 INC 4.6035 V1 30.050
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.487 GAP 28.76 AZP 93.79 TAL 145.28 TAP 110.66 RCA 59.92 APO 173.24 V2 35.260
 RC 216.920 GL -8.54 GP -10.50 ZAL 34.99 ZAP 164.77 ETS 225.57 ZAE 129.62 ETE 188.69 ZAC 150.22 ETC 12.98 CLP 168.90

PLANETOCENTRIC CONIC

C3 156.874 VHL 12.525 DLA 10.20 RAL 127.39 RAD 6570.7 VEL 16.679 PTH 2.89 VHP 18.214 DPA 12.73 RAP 116.50 ECC 3.5818
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 53 55 3015.14 -27.90 97.53 28.54 84.96 8 44 10 2415.1 -28.31 88.89
 90.00 22 27 40 5014.89 23.03 220.59 18.98 73.05 23 51 14 4414.9 20.49 212.83
 100.00 9 20 19 2736.48 -29.55 77.20 28.70 85.25 10 5 56 2136.5 -29.89 68.41
 100.00 23 43 57 4768.78 24.61 201.95 18.45 72.47 25 3 25 4168.8 21.98 194.14
 110.00 10 40 3 2486.99 -33.98 58.65 29.10 86.03 11 21 30 1887.0 -34.16 49.41
 110.00 0 44 38 4591.04 28.82 186.90 16.88 70.78 2 1 9 3991.0 25.93 178.92

DIFFERENTIAL CORRECTIONS

TDE-3.7805 TRA10.7394 TC3 -.2614 BAU .5482
 RDE .5253 RRA .2463 RC3 .0006 FAU-.00340
 FDE -.7454 FRA 2.1537 FC3 .0188 BSP 17929
 BDE 3.8169 BRA10.7423 BC3 .2614 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 5323.3 SGR 266.2 SG3 91.5
 RRT .1094 RRF .1162 RTF .9859
 SGB 5329.9 R23 .0081 R13 .9859
 SG1 5323.4 SG2 264.6 THA .31

ORBIT DETERMINATION ACCURACY

ST 2287.8 SR 242.7 SS 715.1
 CRT -.6557 CRS .6493 CST -.9999
 LSA 2402.2 MSA 183.1 SSA 8.0
 EL1 2293.3 EL2 182.8 ALF 175.99

LAUNCH DATE MAR 2 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC

DISTANCE 608.554

RL 148.27 LAL -.00 LOL 161.24 VL 25.505 GAL 27.43 AZL 95.25 HCA 328.61 SMA 116.45 ECC .52066 INC 5.2506 V1 30.050
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.471 GAP 31.09 AZP 94.49 TAL 145.20 TAP 113.81 RCA 55.82 APO 177.08 V2 35.261
 RC 218.330 GL -8.67 GP -10.38 ZAL 34.51 ZAP 163.69 ETS 221.33 ZAE 128.87 ETE 188.38 ZAC 148.57 ETC 12.92 CLP 167.34

PLANETOCENTRIC CONIC

C3 188.869 VHL 13.743 DLA 9.95 RAL 127.87 RAD 6571.0 VEL 17.612 PTH 2.98 VHP 19.630 DPA 12.62 RAP 118.20 ECC 4.1083
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 57 52 3038.15 -27.75 99.20 31.29 84.14 8 48 30 2438.1 -28.28 90.57
 90.00 22 27 34 5054.29 23.79 223.22 21.76 74.17 23 51 48 4454.3 21.39 215.37
 100.00 9 24 8 2759.95 -29.40 78.93 31.48 84.35 10 10 8 2159.9 -29.87 70.15
 100.00 23 43 59 4807.72 25.38 204.59 21.26 73.65 25 4 7 4207.7 22.89 196.67
 110.00 10 43 33 2511.43 -33.85 60.55 31.97 84.91 11 25 24 1911.4 -34.18 51.32
 110.00 0 45 0 4629.01 29.65 189.55 19.78 72.15 2 2 9 4029.0 26.92 181.42

DIFFERENTIAL CORRECTIONS

TDE-4.1633 TRA11.7200 TC3 -.1380 BAU .3484
 RDE .5605 RRA .2017 RC3 .0013 FAU-.00635
 FDE -.8024 FRA 2.3103 FC3 .0291 BSP 17855
 BDE 4.2009 BRA11.7217 BC3 .1380 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 5269.4 SGR 248.8 SG3 89.6
 RRT .0126 RRF .0217 RTF .9889
 SGB 5275.3 R23 .0091 R13 .9889
 SG1 5269.4 SG2 248.8 THA .03

ORBIT DETERMINATION ACCURACY

ST 2286.4 SR 235.1 SS 754.7
 CRT -.6837 CRS .6755 CST -.9999
 LSA 2413.1 MSA 171.5 SSA 7.4
 EL1 2292.1 EL2 171.1 ALF 175.96

LAUNCH DATE MAR 3 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 12 1969

HELIOCENTRIC CONIC

DISTANCE 198.066

RL 148.31 LAL .00 LOL 162.24 VL 28.442 GAL -11.92 AZL 89.74 MCA 89.74 SMA 135.32 ECC .22687 INC .2613 V1 30.043
 RP 108.58 LAP .26 LOP 251.98 VP 38.258 GAP -6.53 AZP 90.00 TAL 233.62 TAP 323.36 RCA 104.62 APO 166.01 V2 34.900
 RC 63.000 GL 1.03 GP 22.27 ZAL 160.64 ZAP 39.68 ETS 333.27 ZAE 149.32 ETE 37.02 ZAC 121.12 ETC 148.97 CLP -33.74

PLANETOCENTRIC CONIC

C3 44.646 VHL 6.682 CLA 1.63 RAL 1.01 RAD 6568.7 VEL 12.885 PTH 2.35 VHP 5.923 DPA 32.81 RAP 27.17 ECC 1.7348
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 31 40 2464.46 -24.74 57.95 236.78 104.23 1 12 45 1864.5 -22.55 49.97
 90.00 12 53 48 5007.71 22.89 220.11 235.60 72.85 14 17 16 4407.7 20.32 212.37
 100.00 1 53 46 2199.64 -26.04 38.10 236.40 105.21 2 30 26 1599.6 -23.70 30.08
 100.00 14 14 23 4747.76 24.17 200.55 235.16 71.85 15 33 31 4147.8 21.46 192.80
 110.00 3 3 45 1980.60 -29.55 20.29 235.22 108.01 3 36 45 1380.6 -26.81 12.18
 110.00 15 20 54 4539.56 27.62 183.38 233.80 69.01 16 36 33 3939.6 24.51 175.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1612 TRA -.3560 TC3 .2539 BAU .2099 SGT 477.0 SGR 521.1 SG3 170.9 ST 166.2 SR 291.3 SS 304.2
 ROE -.3231 RRA .3481 RC3 .2433 FAU .06805 RRT .2310 RRF -.6120 RTF -.3247 CRT .6237 CRS -.7719 CST -.9649
 FDE -.6447 FRA -.8230 FC3-1.3197 BSP 1360 SGB 706.5 R23 -.1223 R13 -.6285 LSA 422.2 MSA 161.6 SSA 24.8
 BOE .3611 BRA .4979 BC3 .3517 FSP -469 SG1 557.7 SG2 433.7 THA 55.49 EL1 312.8 EL2 121.0 ALF 66.74

LAUNCH DATE MAR 3 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 204.748

RL 148.31 LAL .00 LOL 162.24 VL 28.509 GAL -11.80 AZL 89.93 MCA 92.91 SMA 135.84 ECC .22341 INC .0730 V1 30.043
 RP 108.62 LAP .07 LOP 255.16 VP 38.298 GAP -5.78 AZP 90.00 TAL 234.49 TAP 327.41 RCA 105.50 APO 166.19 V2 34.889
 RC 65.076 GL .31 GP 23.69 ZAL 161.18 ZAP 43.67 ETS 335.46 ZAE 149.55 ETE 41.80 ZAC 119.64 ETC 148.89 CLP -37.82

PLANETOCENTRIC CONIC

C3 43.774 VHL 6.616 OLA .71 RAL .85 RAD 6568.7 VEL 12.851 PTH 2.34 VHP 5.607 DPA 33.75 RAP 25.55 ECC 1.7204
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 37 50 2430.99 -24.16 55.67 235.91 105.23 1 18 21 1831.0 -21.84 47.77
 90.00 12 46 20 5031.25 23.35 221.68 235.40 73.51 14 10 11 4431.3 20.87 213.88
 100.00 1 59 30 2167.55 -25.45 35.90 235.51 106.23 2 35 38 1567.6 -22.98 27.97
 100.00 14 7 21 4769.92 24.63 202.03 234.97 72.50 15 26 51 4169.9 22.00 194.22
 110.00 3 8 30 1951.58 -28.93 18.26 234.27 109.06 3 41 2 1351.6 -26.05 10.26
 110.00 15 14 50 4558.66 28.08 184.68 233.65 69.65 16 30 49 3958.7 25.05 176.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1625 TRA -.3721 TC3 .2368 BAU .2144 SGT 471.0 SGR 551.7 SG3 190.0 ST 171.0 SR 276.1 SS 336.2
 ROE -.2991 RRA .3659 RC3 .2796 FAU .07440 RRT .1935 RRF -.6609 RTF -.2555 CRT .5796 CRS -.7578 CST -.9586
 FDE -.7505 FRA -.9099 FC3-1.4714 BSP 1406 SGB 725.4 R23 -.1057 R13 -.6652 LSA 436.0 MSA 166.7 SSA 24.8
 BOE .3404 BRA .5218 BC3 .3664 FSP -530 SG1 572.8 SG2 445.0 THA 64.70 EL1 298.0 EL2 129.1 ALF 65.33

LAUNCH DATE MAR 3 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 211.393

RL 148.31 LAL .00 LOL 162.24 VL 28.563 GAL -11.70 AZL 90.12 MCA 96.09 SMA 136.28 ECC .22040 INC .1147 V1 30.043
 RP 108.65 LAP -.11 LOP 258.33 VP 38.328 GAP -5.07 AZP 89.99 TAL 235.20 TAP 331.29 RCA 106.24 APO 166.31 V2 34.878
 RC 67.198 GL -.49 GP 25.19 ZAL 161.59 ZAP 47.84 ETS 337.61 ZAE 149.74 ETE 47.19 ZAC 117.96 ETC 148.97 CLP -42.12

PLANETOCENTRIC CONIC

C3 42.991 VHL 6.557 CLA -.19 RAL .79 RAD 6568.6 VEL 12.820 PTH 2.33 VHP 5.328 DPA 34.64 RAP 23.65 ECC 1.7075
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 16 2398.58 -23.57 53.48 235.20 106.17 1 24 15 1798.6 -21.12 45.66
 90.00 12 39 26 5054.58 23.79 223.24 235.34 74.17 14 3 41 4454.6 -21.39 215.39
 100.00 2 5 31 2136.48 -24.84 33.79 234.78 107.18 2 41 8 1536.5 -22.26 25.95
 100.00 14 0 52 4791.91 25.07 203.52 234.92 73.17 15 20 44 4191.9 22.53 195.64
 110.00 3 13 33 1923.51 -28.29 16.33 233.48 110.04 3 45 37 1323.5 -25.29 8.43
 110.00 15 9 19 4577.64 28.52 185.98 233.65 70.31 16 25 37 3977.6 25.57 178.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1676 TRA -.3941 TC3 .2117 BAU .2201 SGT 466.0 SGR 586.7 SG3 209.7 ST 179.4 SR 258.5 SS 369.1
 ROE -.2721 RRA .3840 RC3 .3191 FAU .08089 RRT .1296 RRF -.7064 RTF -.1619 CRT .5288 CRS -.7362 CST -.9527
 FDE -.8647 FRA -.9947 FC3-1.6289 BSP 1473 SGB 749.3 R23 -.0687 R13 -.7067 LSA 453.4 MSA 170.6 SSA 24.8
 BOE .3196 BRA .5503 BC3 .3830 FSP -593 SG1 594.5 SG2 456.0 THA 75.42 EL1 282.0 EL2 139.6 ALF 62.61

LAUNCH DATE MAR 3 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 217.999

RL 148.31 LAL .00 LOL 162.24 VL 28.605 GAL -11.59 AZL 90.31 MCA 99.26 SMA 136.61 ECC .21775 INC .3061 V1 30.043
 RP 108.68 LAP -.30 LOP 261.50 VP 38.350 GAP -4.39 AZP 89.95 TAL 235.76 TAP 335.02 RCA 106.87 APO 166.36 V2 34.867
 RC 69.360 GL -1.32 GP 26.74 ZAL 161.86 ZAP 52.18 ETS 339.77 ZAE 149.82 ETE 53.16 ZAC 116.09 ETC 149.22 CLP -46.64

PLANETOCENTRIC CONIC

C3 42.278 VHL 6.502 CLA -1.08 RAL .83 RAD 6568.6 VEL 12.792 PTH 2.33 VHP 5.085 DPA 35.49 RAP 21.48 ECC 1.6958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 50 59 2366.96 -22.95 51.37 234.64 107.06 1 30 26 1767.0 -20.40 43.63
 90.00 12 33 3 5077.76 24.21 224.81 235.40 74.85 13 57 41 4477.8 21.90 216.91
 100.00 2 11 50 2106.18 -24.22 31.76 234.20 108.08 2 46 56 1506.2 -21.52 24.00
 100.00 13 54 54 4813.77 25.49 205.00 235.01 73.84 15 15 8 4213.8 23.03 197.07
 110.00 3 18 56 1896.16 -27.63 14.47 232.85 110.97 3 50 32 1296.2 -24.53 6.67
 110.00 15 4 17 4596.56 28.95 187.28 233.77 70.97 16 20 54 3996.6 26.08 179.28

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1764 TRA -.4215 TC3 .1790 BAU .2282 SGT 465.1 SGR 626.5 SG3 229.9 ST 191.4 SR 238.4 SS 403.4
 ROE -.2416 RRA .4024 RC3 .3618 FAU .08744 RRT .0373 RRF -.7180 RTF -.0440 CRT .4674 CRS -.7034 CST -.9474
 FDE -.9873 FRA -1.0761 FC3-1.7904 BSP 1587 SGB 780.2 R23 -.0180 R13 -.7480 LSA 475.0 MSA 173.0 SSA 24.7
 BOE .2991 BRA .5827 BC3 .4037 FSP -663 SG1 627.0 SG2 464.4 THA 86.48 EL1 265.2 EL2 152.1 ALF 57.68

LAUNCH DATE MAR 3 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 224.567

RL 148.31 LAL .00 LOL 162.24 VL 28.636 GAL -11.49 AZL 90.50 HCA 102.43 SMA 136.87 ECC .21540 INC .5006 V1 30.043
 RP 108.72 LAP -.49 LOP 264.67 VP 38.365 GAP -3.75 AZP 89.89 TAL 236.15 TAP 338.58 RCA 107.39 APO 166.35 V2 34.858
 RC 71.560 GL -2.18 GP 28.33 ZAL 162.00 ZAP 56.68 ETS 342.00 ZAE 149.72 ETE 59.66 ZAC 114.06 ETC 149.64 CLP -51.38

PLANETOCENTRIC CONIC

C3 41.618 VHL 6.451 DLA -1.95 RAL .97 RAD 6568.6 VEL 12.767 PTH 2.32 VHP 4.879 DPA 36.28 RAP 19.06 ECC 1.6849
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 58 2 2335.87 -22.32 49.31 234.22 107.90 1 36 58 1735.9 -19.66 41.65
 90.00 12 27 8 5100.92 24.62 226.39 235.59 75.54 13 52 9 4500.9 22.39 218.43
 100.00 2 18 28 2076.41 -23.58 29.78 233.76 108.93 2 53 5 1476.4 -20.77 22.10
 100.00 13 49 23 4835.61 25.90 206.50 235.21 74.53 15 9 58 4235.6 23.52 198.51
 110.00 3 24 38 1869.30 -26.97 12.67 232.37 111.85 3 55 47 1269.3 -23.76 4.97
 110.00 14 59 42 4615.48 29.36 188.60 234.02 71.65 16 16 38 4015.5 26.57 180.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1915 TRA -.4564 TC3 .1361 BAU .2385 SGT 473.6 SGR 669.5 SG3 249.2 ST 209.2 SR 216.8 SS 436.6
 RDE -.2085 RRA .4193 RC3 .4065 FAU .09361 RRT -.0868 RRF -.7841 RTF .1021 CRT .3962 CRS -.6562 CST -.9443
 FDE -1.1111 FRA -1.1455 FC3 -1.9472 BSP 1715 SGB 820.0 R23 .0322 R13 -.7841 LSA 500.6 MSA 173.8 SSA 24.6
 BDE .2831 BRA .6198 BC3 .4287 FSP -726 SG1 671.9 SG2 470.1 THA 96.91 EL1 251.9 EL2 165.4 ALF 47.58

LAUNCH DATE MAR 3 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 231.097

RL 148.31 LAL .00 LOL 162.24 VL 28.658 GAL -11.39 AZL 90.70 HCA 105.60 SMA 137.04 ECC .21330 INC .6998 V1 30.043
 RP 108.74 LAP -.67 LOP 267.84 VP 38.372 GAP -3.14 AZP 89.81 TAL 236.40 TAP 342.00 RCA 107.81 APO 166.27 V2 34.848
 RC 73.792 GL -3.07 GP 29.94 ZAL 162.00 ZAP 61.28 ETS 344.32 ZAE 149.35 ETE 66.56 ZAC 111.89 ETC 150.23 CLP -56.32

PLANETOCENTRIC CONIC

C3 41.002 VHL 6.403 DLA -2.82 RAL 1.21 RAD 6568.6 VEL 12.742 PTH 2.32 VHP 4.708 DPA 36.98 RAP 16.43 ECC 1.6748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 5 28 2305.04 -21.66 47.29 233.93 108.70 1 43 53 1705.0 -18.90 39.70
 90.00 12 21 35 5124.21 25.00 227.99 235.90 76.25 13 47 0 4524.2 22.87 219.97
 100.00 2 25 29 2046.89 -22.91 27.84 233.46 109.74 2 59 36 1446.9 -20.01 20.24
 100.00 13 44 15 4857.60 26.29 208.02 235.53 75.24 15 5 13 4257.6 24.00 199.96
 110.00 3 30 43 1842.72 -26.28 10.90 232.02 112.69 4 1 25 1242.7 -22.98 3.30
 110.00 14 55 31 4634.54 29.76 189.94 234.39 72.35 16 12 45 4034.5 27.06 181.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2121 TRA -.4968 TC3 .0845 BAU .2526 SGT 495.8 SGR 715.7 SG3 267.8 ST 232.1 SR 194.0 SS 470.5
 RDE -.1720 RRA .4351 RC3 .4531 FAU .09935 RRT -.2297 RRF -.8153 RTF .2602 CRT .3032 CRS -.5844 CST -.9431
 FDE -1.2379 FRA -1.2044 FC3 -2.0978 BSP 1901 SGB 870.7 R23 .0720 R13 -.8156 LSA 531.3 MSA 173.1 SSA 24.5
 BDE .2731 BRA .6604 BC3 .4609 FSP -793 SG1 731.6 SG2 472.1 THA 105.73 EL1 248.3 EL2 172.9 ALF 29.65

LAUNCH DATE MAR 3 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 237.588

RL 148.31 LAL .00 LOL 162.24 VL 28.670 GAL -11.29 AZL 90.91 HCA 108.76 SMA 137.14 ECC .21139 INC .9051 V1 30.043
 RP 108.77 LAP -.86 LOP 271.01 VP 38.373 GAP -2.55 AZP 89.71 TAL 236.51 TAP 345.27 RCA 108.15 APO 166.13 V2 34.839
 RC 76.053 GL -4.01 GP 31.54 ZAL 161.87 ZAP 65.94 ETS 346.76 ZAE 148.69 ETE 73.67 ZAC 109.63 ETC 150.99 CLP -61.43

PLANETOCENTRIC CONIC

C3 40.419 VHL 6.358 DLA -3.70 RAL 1.54 RAD 6568.6 VEL 12.720 PTH 2.31 VHP 4.571 DPA 37.59 RAP 13.63 ECC 1.6652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 19 2274.18 -20.97 45.29 233.77 109.48 1 51 13 1674.2 -18.12 37.77
 90.00 12 16 23 5147.84 25.37 229.62 236.32 76.99 13 42 10 4547.8 23.33 221.54
 100.00 2 32 56 2017.36 -22.22 25.92 233.28 110.53 3 6 33 1417.4 -19.23 18.40
 100.00 13 39 27 4879.89 26.67 209.57 235.97 75.97 15 0 47 4279.9 24.47 201.45
 110.00 3 37 12 1816.15 -25.57 9.16 231.80 113.50 4 7 29 1216.1 -22.17 1.66
 110.00 14 51 40 4653.88 30.15 191.31 234.87 73.08 16 9 14 4053.9 27.54 183.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2405 TRA -.5439 TC3 .0223 BAU .2702 SGT 537.6 SGR 762.5 SG3 284.0 ST 262.1 SR 172.0 SS 502.3
 RDE -.1337 RRA .4474 RC3 .4996 FAU .10415 RRT -.3766 RRF -.8412 RTF .4166 CRT .1835 CRS -.4800 CST -.9442
 FDE -1.3577 FRA -1.2427 FC3 -2.2308 BSP 2117 SGB 932.9 R23 .1013 R13 -.8420 LSA 566.4 MSA 171.0 SSA 24.3
 BDE .2752 BRA .7043 BC3 .5001 FSP -849 SG1 804.8 SG2 471.8 THA 113.28 EL1 265.3 EL2 167.0 ALF 11.46

LAUNCH DATE MAR 3 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 244.042

RL 148.31 LAL .00 LOL 162.24 VL 28.674 GAL -11.18 AZL 91.12 HCA 111.93 SMA 137.17 ECC .20965 INC 1.1181 V1 30.043
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.369 GAP -2.00 AZP 89.58 TAL 236.49 TAP 348.41 RCA 108.41 APO 165.93 V2 34.831
 RC 78.340 GL -4.99 GP 33.12 ZAL 161.60 ZAP 70.63 ETS 349.33 ZAE 147.69 ETE 80.78 ZAC 107.32 ETC 151.88 CLP -66.67

PLANETOCENTRIC CONIC

C3 39.865 VHL 6.314 DLA -4.59 RAL 1.96 RAD 6568.5 VEL 12.698 PTH 2.31 VHP 4.468 DPA 38.11 RAP 10.72 ECC 1.6561
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 21 40 2242.99 -20.25 43.29 233.73 110.23 1 59 3 1643.0 -17.31 35.84
 90.00 12 11 24 5172.07 25.73 231.30 236.86 77.76 13 37 36 4572.1 23.79 223.17
 100.00 2 40 51 1987.54 -21.49 24.00 233.22 111.29 3 13 59 1387.5 -18.41 16.56
 100.00 13 34 54 4902.75 27.03 211.17 236.53 76.73 14 56 37 4302.8 24.94 202.99
 110.00 3 44 10 1789.35 -24.83 7.43 231.70 114.28 4 13 59 1189.3 -21.34 .02
 110.00 14 48 5 4673.71 30.54 192.73 235.48 73.83 16 5 59 4073.7 28.02 184.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2758 TRA -.5954 TC3 .0486 BAU .2922 SGT 600.2 SGR 809.6 SG3 297.9 ST 298.5 SR 151.9 SS 534.0
 RDE -.0928 RRA .4567 RC3 .5461 FAU .10803 RRT -.5075 RRF -.8629 RTF .5509 CRT .0166 CRS -.3220 CST -.9465
 FDE -1.4728 FRA -1.2638 FC3 -2.3461 BSP 2393 SGB 1007.8 R23 .1212 R13 -.8644 LSA 607.1 MSA 167.7 SSA 24.0
 BDE .2910 BRA .7504 BC3 .5482 FSP -903 SG1 891.8 SG2 469.5 THA 119.55 EL1 298.5 EL2 151.9 ALF .65

LAUNCH DATE MAR 3 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 250.458

RL 148.31 LAL .00 LOL 162.24 VL 28.670 GAL -11.07 AZL 91.34 HCA 115.09 SMA 137.14 ECC .20803 INC 1.3408 VI 30.043
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.359 GAP -1.47 AZP 89.43 TAL 236.34 TAP 351.42 RCA 108.61 APO 165.67 V2 34.824
 RC 80.651 GL -6.03 GP 34.65 ZAL 161.20 ZAP 75.27 ETS 352.05 ZAE 146.36 ETE 87.68 ZAC 105.00 ETC 152.89 CLP -72.00

PLANETOCENTRIC CONIC

C3 39.337 VHL 6.272 CLA -5.49 RAL 2.48 RAD 6568.5 VEL 12.677 PTH 2.30 VHP 4.399 DPA 38.55 RAP 7.77 ECC 1.6474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 30 36 2211.13 -19.48 41.26 233.81 110.96 2 7 27 1611.1 -16.46 33.89
 90.00 12 6 36 5197.19 26.09 233.06 237.51 78.57 13 33 14 4597.2 24.25 224.87
 100.00 2 49 21 1957.10 -20.73 22.06 233.29 112.03 3 21 58 1357.1 -17.56 14.70
 100.00 13 30 33 4926.46 27.39 212.83 237.20 77.54 14 52 39 4326.5 25.40 204.60
 110.00 3 51 39 1762.05 -24.06 5.69 231.72 115.05 4 21 1 1162.0 -20.48 358.37
 110.00 14 44 44 4694.27 30.92 194.21 236.20 74.64 16 2 58 4094.3 28.50 185.84

DIFFERENTIAL CORRECTIONS

TDE -.3196 TRA -.6516 TC3 -.1287 BAU .3174
 RDE -.0512 RRA .4605 RC3 .5897 FAU .11048
 FDE -1.5732 FRA -1.2585 FC3 -2.4314 BSP 2694
 BDE .3237 BRA .7979 BC3 .6036 FSP -938

MID-COURSE EXECUTION ACCURACY

SGT 684.8 SGR 853.2 SG3 307.9
 RRT -.6135 RRF -.8804 RTF .6567
 SGB 1094.0 R23 .1362 R13 -.8822
 SG1 989.8 S62 466.1 THA 125.06

ORBIT DETERMINATION ACCURACY

ST 342.7 SR 137.0 SS 562.9
 CRT -.1961 CRS -.1047 CST -.9500
 LSA 652.5 MSA 163.4 SSA 23.8
 EL1 344.0 EL2 133.8 ALF 174.72

LAUNCH DATE MAR 3 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 256.837

RL 148.31 LAL .00 LOL 162.24 VL 28.660 GAL -10.96 AZL 91.58 HCA 118.25 SMA 137.06 ECC .20652 INC 1.5751 VI 30.043
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.345 GAP -.97 AZP 89.25 TAL 236.07 TAP 354.32 RCA 108.75 APO 165.36 V2 34.816
 RC 82.981 GL -7.13 GP 36.12 ZAL 160.66 ZAP 79.81 ETS 354.90 ZAE 144.73 ETE 94.20 ZAC 102.72 ETC 153.97 CLP -77.35

PLANETOCENTRIC CONIC

C3 38.836 VHL 6.232 CLA -6.43 RAL 3.09 RAD 6568.5 VEL 12.657 PTH 2.30 VHP 4.360 DPA 38.91 RAP 4.84 ECC 1.6391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 40 12 2178.26 -18.67 39.19 234.01 111.68 2 16 30 1578.3 -15.56 31.90
 90.00 12 1 53 5223.58 26.43 234.91 238.30 79.44 13 28 57 4623.6 24.70 226.67
 100.00 2 58 29 1925.72 -19.91 20.09 233.47 112.76 3 30 35 1325.7 -16.66 12.81
 100.00 13 26 17 4951.35 27.75 214.60 238.01 78.41 14 48 49 4351.4 25.87 206.30
 110.00 3 59 44 1733.97 -23.24 3.92 231.86 115.81 4 28 38 1134.0 -19.57 356.70
 110.00 14 41 32 4715.87 31.30 195.78 237.06 75.49 16 0 8 4115.9 28.99 187.33

DIFFERENTIAL CORRECTIONS

TDE -.3714 TRA -.7097 TC3 -.2157 BAU .3462
 RDE -.0078 RRA .4599 RC3 .6310 FAU .11171
 FDE -1.6628 FRA -1.2343 FC3 -2.4904 BSP 3046
 BDE .3715 BRA .8457 BC3 .6669 FSP -970

MID-COURSE EXECUTION ACCURACY

SGT 787.5 SGR 894.2 SG3 314.8
 RRT -.6936 RRF -.8950 RTF .7342
 SGB 1191.5 R23 .1472 R13 -.8967
 SG1 1098.4 SG2 461.8 THA 129.79

ORBIT DETERMINATION ACCURACY

ST 394.3 SR 130.0 SS 591.3
 CRT -.4463 CRS .1712 CST -.9538
 LSA 704.5 MSA 158.4 SSA 23.4
 EL1 399.0 EL2 115.0 ALF 170.86

LAUNCH DATE MAR 3 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 263.181

RL 148.31 LAL .00 LOL 162.24 VL 28.643 GAL -10.84 AZL 91.82 HCA 121.41 SMA 136.92 ECC .20510 INC 1.8237 VI 30.043
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.327 GAP -.49 AZP 89.05 TAL 235.69 TAP 357.10 RCA 108.84 APO 165.01 V2 34.810
 RC 85.328 GL -8.31 GP 37.54 ZAL 159.98 ZAP 84.20 ETS 357.87 ZAE 142.84 ETE 100.21 ZAC 100.53 ETC 155.09 CLP -82.68

PLANETOCENTRIC CONIC

C3 38.363 VHL 6.194 CLA -7.41 RAL 3.80 RAD 6568.5 VEL 12.638 PTH 2.29 VHP 4.353 DPA 39.23 RAP 1.99 ECC 1.6314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 36 2143.96 -17.79 37.06 234.34 112.40 2 26 20 1544.0 -14.60 29.84
 90.00 11 57 9 5251.69 26.76 236.90 239.22 80.39 13 24 40 4651.7 25.16 228.60
 100.00 3 8 23 1893.02 -19.04 18.05 233.78 113.49 3 39 56 1293.0 -15.70 10.85
 100.00 13 22 3 4977.86 28.10 216.49 238.95 79.35 14 45 1 4377.9 26.34 208.13
 110.00 4 8 30 1704.79 -22.36 2.11 232.13 116.56 4 36 55 1104.8 -18.61 354.98
 110.00 14 38 25 4738.86 31.68 197.46 238.06 76.42 15 57 24 4138.9 29.49 188.94

DIFFERENTIAL CORRECTIONS

TDE -.4323 TRA -.7691 TC3 -.3092 BAU .3770
 RDE .0350 RRA .4523 RC3 .6670 FAU .11133
 FDE -1.7319 FRA -1.1832 FC3 -2.5123 BSP 3414
 BDE .4337 BRA .8922 BC3 .7351 FSP -981

MID-COURSE EXECUTION ACCURACY

SGT 906.2 SGR 928.3 SG3 317.1
 RRT -.7513 RRF -.9066 RTF .7890
 SGB 1297.3 R23 .1572 R13 -.9077
 SG1 1214.0 SG2 457.3 THA 134.08

ORBIT DETERMINATION ACCURACY

ST 454.3 SR 133.0 SS 616.3
 CRT -.6701 CRS .4411 CST -.9578
 LSA 761.5 MSA 153.0 SSA 23.0
 EL1 463.3 EL2 96.8 ALF 168.39

LAUNCH DATE MAR 3 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 269.490

RL 148.31 LAL .00 LOL 162.24 VL 28.621 GAL -10.72 AZL 92.09 HCA 124.57 SMA 136.74 ECC .20375 INC 2.0895 VI 30.043
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.305 GAP -.04 AZP 88.81 TAL 235.21 TAP 359.77 RCA 108.88 APO 164.61 V2 34.804
 RC 87.691 GL -9.58 GP 38.90 ZAL 159.15 ZAP 88.39 ETS .95 ZAE 140.75 ETE 105.67 ZAC 98.46 ETC 156.20 CLP -87.93

PLANETOCENTRIC CONIC

C3 37.926 VHL 6.158 CLA -8.45 RAL 4.61 RAD 6568.5 VEL 12.621 PTH 2.29 VHP 4.374 DPA 39.54 RAP 359.26 ECC 1.6242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 1 57 2107.79 -16.84 34.83 234.80 113.10 2 37 5 1507.8 -13.57 27.68
 90.00 11 52 16 5282.07 27.09 239.07 240.28 81.42 13 20 18 4682.1 25.63 230.70
 100.00 3 19 11 1858.60 -18.09 15.93 234.23 114.21 3 50 10 1258.6 -14.67 8.81
 100.00 13 17 43 5006.50 28.44 218.55 240.04 80.38 14 41 9 4406.5 26.82 210.13
 110.00 4 18 5 1674.17 -21.42 .24 232.53 117.30 4 46 0 1074.2 -17.59 353.20
 110.00 14 35 18 4763.69 32.06 199.30 239.22 77.45 15 54 42 4163.7 30.00 190.69

DIFFERENTIAL CORRECTIONS

TDE -.5018 TRA -.8273 TC3 -.4066 BAU .4099
 RDE .0792 RRA .4396 RC3 .6987 FAU .10971
 FDE -1.7884 FRA -1.1160 FC3 -2.5043 BSP 3819
 BDE .5080 BRA .9368 BC3 .8084 FSP -987

MID-COURSE EXECUTION ACCURACY

SGT 1036.4 SGR 957.6 SG3 316.1
 RRT -.7930 RRF -.9166 RTF .8276
 SGB 1411.1 R23 .1661 R13 -.9165
 SG1 1336.6 SG2 452.3 THA 137.85

ORBIT DETERMINATION ACCURACY

ST 522.2 SR 146.6 SS 641.0
 CRT -.8329 CRS .6600 CST -.9617
 LSA 826.3 MSA 147.4 SSA 22.5
 EL1 536.6 EL2 78.9 ALF 166.55

LAUNCH DATE MAR 3 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.594 GAL -10.59 AZL 92.38 HCA 127.72 SMA 136.52 ECC .20247 INC 2.3763 V1 30.043
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.280 GAP .40 AZP 88.55 TAL 234.63 TAP 2.35 RCA 108.88 APO 164.17 V2 34.799
 RC 90.065 GL -10.97 GP 40.24 ZAL 158.17 ZAP 92.32 ETS 4.14 ZAE 138.51 ETE 110.53 ZAC 96.53 ETC 157.29 CLP -93.04

PLANETOCENTRIC CONIC
 C3 37.534 VHL 6.126 DLA -9.56 RAL 5.53 RAD 6568.5 VEL 12.606 PTH 2.29 VHP 4.425 DPA 39.88 RAP 356.69 ECC 1.6177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 14 25 2069.22 -15.80 32.48 235.42 113.81 2 48 55 1469.2 -12.45 25.41
 90.00 11 47 8 5315.39 27.41 241.45 241.52 82.58 13 15 43 4715.4 26.09 233.03
 100.00 3 31 4 1821.95 -17.06 13.71 234.83 114.93 4 1 26 1221.9 -13.55 6.67
 100.00 13 13 10 5037.89 28.77 220.83 241.31 81.53 14 37 8 4437.9 27.30 212.33
 110.00 4 28 38 1641.71 -20.39 358.28 233.07 118.05 4 55 59 1041.7 -16.48 351.34
 110.00 14 32 6 4790.89 32.44 201.33 240.56 78.59 15 51 57 4190.9 30.53 192.63

DIFFERENTIAL CORRECTIONS
 TDE -.5808 TRA -.8830 TC3 -.5065 BAU .4432
 RDE .1226 RRA .4198 RC3 .7236 FAU .10664
 FDE -1.8247 FRA -1.0284 FC3 -2.4596 BSP 4226
 BDE .5936 BRA .9777 BC3 .8833 FSP -973

MID-COURSE EXECUTION ACCURACY
 SGT 1175.4 SGR 978.7 SG3 310.9
 RRT -.8224 RRF -.9247 RTF .8546
 SGB 1529.5 R23 .1754 R13 -.9229
 SG1 1462.6 SG2 447.5 THA 141.31

ORBIT DETERMINATION ACCURACY
 ST 598.8 SR 167.7 SS 662.8
 CRT -.9241 CRS .8015 CST -.9654
 LSA 897.4 MSA 141.9 SSA 21.8
 EL1 618.7 EL2 62.0 ALF 165.34

LAUNCH DATE MAR 3 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.562 GAL -10.46 AZL 92.69 HCA 130.88 SMA 136.27 ECC .20125 INC 2.6885 V1 30.043
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.252 GAP .81 AZP 88.24 TAL 233.96 TAP 4.84 RCA 108.85 APO 163.69 V2 34.795
 RC 92.449 GL -12.47 GP 41.56 ZAL 157.02 ZAP 95.96 ETS 7.41 ZAE 136.16 ETE 114.83 ZAC 94.75 ETC 158.31 CLP -97.98

PLANETOCENTRIC CONIC
 C3 37.202 VHL 6.099 DLA -10.76 RAL 6.57 RAD 6568.4 VEL 12.592 PTH 2.28 VHP 4.503 DPA 40.28 RAP 354.28 ECC 1.6122
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 28 16 2027.60 -14.64 29.98 236.21 114.51 3 2 4 1427.6 -11.21 22.98
 90.00 11 41 33 5352.52 27.70 244.13 242.95 83.89 13 10 45 4752.5 26.57 235.65
 100.00 3 44 15 1782.51 -15.91 11.34 235.60 115.65 4 13 57 1182.5 -12.33 4.38
 100.00 13 8 16 5072.84 29.10 223.37 242.77 82.83 14 32 49 4472.8 27.80 214.81
 110.00 4 40 18 1606.96 -19.26 356.21 233.79 118.80 5 7 5 1007.0 -15.27 349.37
 110.00 14 28 42 4821.14 32.83 203.60 242.11 79.89 15 49 3 4221.1 31.08 194.81

DIFFERENTIAL CORRECTIONS
 TDE -.6699 TRA -.9344 TC3 -.6068 BAU .4773
 RDE .1676 RRA .3950 RC3 .7435 FAU .10260
 FDE -1.8497 FRA -.9308 FC3 -2.3876 BSP 4665
 BDE .6906 BRA 1.0145 BC3 .9597 FSP -956

MID-COURSE EXECUTION ACCURACY
 SGT 1319.9 SGR 995.0 SG3 302.9
 RRT -.8436 RRF -.9319 RTF .8739
 SGB 1653.0 R23 .1848 R13 -.9279
 SG1 1592.5 SG2 442.9 THA 144.37

ORBIT DETERMINATION ACCURACY
 ST 684.4 SR 195.9 SS 684.8
 CRT -.9701 CRS .8881 CST -.9688
 LSA 978.0 MSA 136.9 SSA 20.9
 EL1 710.4 EL2 45.8 ALF 164.42

LAUNCH DATE MAR 3 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.526 GAL -10.32 AZL 93.03 HCA 134.03 SMA 135.98 ECC .20007 INC 3.0319 V1 30.043
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.222 GAP 1.21 AZP 87.89 TAL 233.22 TAP 7.24 RCA 108.78 APO 163.19 V2 34.791
 RC 94.840 GL -14.13 GP 42.91 ZAL 155.69 ZAP 99.29 ETS 10.77 ZAE 133.73 ETE 118.60 ZAC 93.15 ETC 159.25 CLP -102.73

PLANETOCENTRIC CONIC
 C3 36.949 VHL 6.079 DLA -12.07 RAL 7.74 RAD 6568.4 VEL 12.582 PTH 2.28 VHP 4.610 DPA 40.79 RAP 352.02 ECC 1.6081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 48 1982.15 -13.34 27.27 237.21 115.21 3 16 51 1382.1 -9.83 20.35
 90.00 11 35 19 5394.52 27.97 247.17 244.61 85.39 13 5 14 4794.5 27.04 238.63
 100.00 3 59 0 1739.58 -14.63 8.80 236.57 116.36 4 27 59 1139.6 -10.97 1.92
 100.00 13 2 49 5112.33 29.40 226.27 244.47 84.33 14 28 2 4512.3 28.30 217.64
 110.00 4 53 20 1569.40 -18.02 354.01 234.70 119.55 5 19 29 969.4 -13.95 347.26
 110.00 14 24 58 4855.27 33.21 206.19 243.91 81.38 15 45 54 4255.3 31.66 197.31

DIFFERENTIAL CORRECTIONS
 TDE -.7699 TRA -.9795 TC3 -.7051 BAU .5105
 RDE .2120 RRA .3631 RC3 .7556 FAU .09739
 FDE -1.8567 FRA -.8186 FC3 -2.2820 BSP 5084
 BDE .7986 BRA 1.0446 BC3 1.0334 FSP -920

MID-COURSE EXECUTION ACCURACY
 SGT 1467.2 SGR 1003.1 SG3 291.5
 RRT -.8580 RRF -.9380 RTF .8875
 SGB 1777.3 R23 .1953 R13 -.9314
 SG1 1722.3 SG2 438.9 THA 147.21

ORBIT DETERMINATION ACCURACY
 ST 779.5 SR 227.4 SS 704.2
 CRT -.9899 CRS .9374 CST -.9718
 LSA 1066.4 MSA 132.7 SSA 19.8
 EL1 811.4 EL2 30.9 ALF 163.87

LAUNCH DATE MAR 3 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.487 GAL -10.17 AZL 93.41 HCA 137.18 SMA 135.67 ECC .19895 INC 3.4137 V1 30.043
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.190 GAP 1.58 AZP 87.49 TAL 232.39 TAP 9.57 RCA 108.68 APO 162.66 V2 34.788
 RC 97.236 GL -15.97 GP 44.33 ZAL 154.16 ZAP 102.25 ETS 14.22 ZAE 131.24 ETE 121.87 ZAC 91.69 ETC 160.10 CLP -107.26

PLANETOCENTRIC CONIC
 C3 36.806 VHL 6.067 DLA -13.51 RAL 9.05 RAD 6568.4 VEL 12.577 PTH 2.28 VHP 4.747 DPA 41.43 RAP 349.89 ECC 1.6057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 1 26 1931.87 -11.86 24.32 238.47 115.90 3 33 38 1331.9 -8.28 17.47
 90.00 11 28 10 5442.84 28.18 250.69 246.54 87.15 12 58 53 4842.8 27.49 242.09
 100.00 4 15 42 1692.27 -13.18 6.03 237.80 117.08 4 43 54 1092.3 -9.44 359.23
 100.00 12 56 35 5157.67 29.66 229.62 246.44 86.07 14 22 33 4557.7 28.80 220.92
 110.00 5 8 2 1528.37 -16.62 351.65 235.85 120.31 5 33 30 928.4 -12.47 345.00
 110.00 14 20 45 4894.34 33.57 209.19 246.00 83.11 15 42 19 4294.3 32.25 200.20

DIFFERENTIAL CORRECTIONS
 TDE -.8830 TRA -1.0172 TC3 -.7995 BAU .5435
 RDE .2590 RRA .3264 RC3 .7620 FAU .09158
 FDE -1.8560 FRA -.7035 FC3 -2.1542 BSP 5531
 BDE .9202 BRA 1.0683 BC3 1.1045 FSP -884

MID-COURSE EXECUTION ACCURACY
 SGT 1616.4 SGR 1007.6 SG3 278.2
 RRT -.8683 RRF -.9437 RTF .8976
 SGB 1904.7 R23 .2061 R13 -.9343
 SG1 1854.2 SG2 435.7 THA 149.73

ORBIT DETERMINATION ACCURACY
 ST 885.5 SR 263.9 SS 724.5
 CRT -.9969 CRS .9661 CST -.9747
 LSA 1166.9 MSA 129.5 SSA 18.5
 EL1 923.8 EL2 19.7 ALF 163.45

LAUNCH DATE MAR 3 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 300.560

RL 148.31 LAL .00 LOL 162.24 VL 28.444 GAL -10.01 AZL 93.84 MCA 140.33 SMA 135.34 ECC .19787 INC 3.8438 V1 30.043
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.156 GAP 1.94 AZP 87.04 TAL 231.49 TAP 11.82 RCA 108.56 APO 162.11 V2 34.786
 RC 99.636 GL -18.03 GP 45.85 ZAL 152.40 ZAP 104.85 ETS 17.78 ZAE 128.70 ETE 124.70 ZAC 90.37 ETC 160.86 CLP-111.58

PLANETOCENTRIC CONIC

C3 36.814 VHL 6.067 CLA -15.12 RAL 10.53 RAD 6568.4 VEL 12.577 PTH 2.28 VHP 4.917 DPA 42.24 RAP 347.84 ECC 1.6059
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 44 1875.40 -10.16 21.04 240.05 116.57 3 53 0 1275.4 -6.51 14.26
 90.00 11 19 40 5499.41 28.31 254.82 248.78 89.21 12 51 20 4899.4 27.90 246.18
 100.00 4 34 52 1639.46 -11.52 2.99 239.33 117.77 5 2 11 1039.5 -7.72 356.26
 100.00 12 49 14 5210.59 29.84 233.54 248.74 88.13 14 16 5 4610.6 29.26 224.78
 110.00 5 24 47 1483.08 -15.05 349.08 237.29 121.06 5 49 30 883.1 -10.82 342.53
 110.00 14 15 48 4939.73 33.88 212.69 248.46 85.17 15 38 8 4339.7 32.84 203.61

DIFFERENTIAL CORRECTIONS

TOE-1.0117 TRA-1.0458 TC3 -.8875 BAU .5754
 RDE .3081 RRA .2840 RC3 .7611 FAU .08515
 FDE-1.8460 FRA -.5850 FC3-2.0024 BSP 5983
 BOE 1.0575 BRA 1.0836 BC3 1.1692 FSP -841

MID-COURSE EXECUTION ACCURACY

SGT 1766.0 SGR 1007.4 SG3 263.1
 RRT -.8750 RRF -.9488 RTF .9052
 SGB 2033.2 R23 .2174 R13 -.9365
 SG1 1986.4 SG2 433.6 THA 152.02

ORBIT DETERMINATION ACCURACY

ST 1003.9 SR 303.9 SS 744.8
 CRT -.9977 CRS .9825 CST -.9775
 LSA 1280.0 MSA 127.5 SSA 16.9
 EL1 1048.7 EL2 19.5 ALF 163.19

LAUNCH DATE MAR 3 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 306.687

RL 148.31 LAL .00 LOL 162.24 VL 28.399 GAL -9.85 AZL 94.33 MCA 143.48 SMA 134.98 ECC .19683 INC 4.3349 V1 30.043
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.121 GAP 2.29 AZP 86.51 TAL 230.52 TAP 14.00 RCA 108.41 APO 161.55 V2 34.784
 RC 102.038 GL -20.34 GP 47.53 ZAL 150.37 ZAP 107.03 ETS 21.46 ZAE 126.09 ETE 127.16 ZAC 89.16 ETC 161.55 CLP-115.70

PLANETOCENTRIC CONIC

C3 37.032 VHL 6.085 CLA -16.92 RAL 12.21 RAD 6568.4 VEL 12.586 PTH 2.28 VHP 5.124 DPA 43.26 RAP 345.82 ECC 1.6095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 31 1810.86 -8.17 17.34 242.04 117.21 4 15 42 1210.9 -4.46 10.63
 90.00 11 9 17 5566.94 28.27 259.76 251.39 91.69 12 42 4 4966.9 28.21 251.10
 100.00 4 57 12 1579.57 -9.60 359.58 241.28 118.44 5 23 32 979.6 -5.73 352.93
 100.00 12 40 17 5273.47 29.89 238.21 251.43 90.59 14 8 10 4673.5 29.65 229.42
 110.00 5 44 8 1432.53 -13.25 346.26 239.11 121.80 6 8 1 832.5 -8.95 339.80
 110.00 14 9 50 4993.26 34.11 216.86 251.35 87.62 15 33 3 4393.3 33.40 207.69

DIFFERENTIAL CORRECTIONS

TOE-1.1589 TRA-1.0622 TC3 -.9648 BAU .6050
 RDE .3586 RRA .2339 RC3 .7502 FAU .07804
 FDE-1.8243 FRA -.4618 FC3-1.8245 BSP 6401
 BOE 1.2131 BRA 1.0877 BC3 1.2221 FSP -785

MID-COURSE EXECUTION ACCURACY

SGT 1913.7 SGR 1000.3 SG3 245.7
 RRT -.8782 RRF -.9533 RTF .9108
 SGB 2159.3 R23 .2296 R13 -.9379
 SG1 2115.5 SG2 432.8 THA 154.18

ORBIT DETERMINATION ACCURACY

ST 1135.9 SR 345.7 SS 763.5
 CRT -.9958 CRS .9917 CST -.9799
 LSA 1405.8 MSA 127.0 SSA 15.1
 EL1 1186.9 EL2 30.3 ALF 163.13

LAUNCH DATE MAR 3 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 312.787

RL 148.31 LAL .00 LOL 162.24 VL 28.351 GAL -9.68 AZL 94.90 MCA 146.62 SMA 134.61 ECC .19584 INC 4.9047 V1 30.043
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.084 GAP 2.62 AZP 85.90 TAL 229.49 TAP 16.11 RCA 108.25 APO 160.97 V2 34.783
 RC 104.441 GL -22.95 GP 49.41 ZAL 148.03 ZAP 108.78 ETS 25.29 ZAE 123.39 ETE 129.31 ZAC 88.02 ETC 162.18 CLP-119.66

PLANETOCENTRIC CONIC

C3 37.551 VHL 6.128 CLA -18.96 RAL 14.12 RAD 6568.5 VEL 12.606 PTH 2.29 VHP 5.378 DPA 44.49 RAP 343.73 ECC 1.6180
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 3 1735.32 -5.80 13.06 244.60 117.77 4 42 59 1135.3 -2.03 6.40
 90.00 10 56 2 5649.53 27.96 265.78 254.44 94.69 12 30 11 5049.5 28.31 257.14
 100.00 5 23 47 1510.31 -7.33 355.69 243.76 119.06 5 48 57 910.3 -3.40 349.11
 100.00 12 28 59 5349.76 29.70 243.88 254.58 93.56 13 58 9 4749.8 29.88 235.08
 110.00 6 6 50 1375.40 -11.18 343.13 241.44 122.51 6 29 46 775.4 -6.81 336.76
 110.00 14 2 25 5057.44 34.18 221.87 254.77 90.58 15 26 43 4457.4 33.88 212.63

DIFFERENTIAL CORRECTIONS

TOE-1.3318 TRA-1.0658 TC3-1.0291 BAU .6336
 RDE .4138 RRA .1781 RC3 .7307 FAU .07073
 FDE-1.7999 FRA -.3437 FC3-1.6307 BSP 6854
 BOE 1.3946 BRA 1.0805 BC3 1.2621 FSP -731

MID-COURSE EXECUTION ACCURACY

SGT 2062.0 SGR 991.2 SG3 227.6
 RRT -.8790 RRF -.9575 RTF .9156
 SGB 2287.8 R23 .2410 R13 -.9395
 SG1 2246.3 SG2 433.8 THA 156.15

ORBIT DETERMINATION ACCURACY

ST 1285.3 SR 391.4 SS 783.9
 CRT -.9929 CRS .9966 CST -.9824
 LSA 1550.2 MSA 127.9 SSA 13.2
 EL1 1342.8 EL2 44.6 ALF 163.16

LAUNCH DATE MAR 3 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 318.861

RL 148.31 LAL .00 LOL 162.24 VL 28.300 GAL -9.50 AZL 95.58 MCA 149.76 SMA 134.22 ECC .19489 INC 5.5779 V1 30.043
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.047 GAP 2.93 AZP 85.18 TAL 228.40 TAP 18.16 RCA 108.06 APO 160.38 V2 34.783
 RC 106.844 GL -25.92 GP 51.55 ZAL 145.32 ZAP 110.06 ETS 29.32 ZAE 120.56 ETE 131.23 ZAC 86.91 ETC 162.80 CLP-123.48

PLANETOCENTRIC CONIC

C3 38.510 VHL 6.206 CLA -21.28 RAL 16.33 RAD 6568.5 VEL 12.644 PTH 2.30 VHP 5.690 DPA 45.98 RAP 341.45 ECC 1.6338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 49 28 1643.64 -2.87 7.92 247.95 118.18 5 16 52 1043.6 .93 1.29
 90.00 10 38 15 5753.94 27.15 273.31 257.95 98.38 12 14 8 5153.9 28.03 264.76
 100.00 5 56 18 1427.94 -4.58 351.12 247.00 119.57 6 20 6 827.9 -6.1 344.58
 100.00 12 14 6 5444.88 29.09 250.88 258.25 97.20 13 44 50 4844.9 29.78 242.14
 110.00 6 34 0 1309.79 -8.76 339.60 244.43 123.17 6 55 50 709.8 -4.33 333.31
 110.00 13 52 53 5135.80 33.96 227.97 258.82 94.19 15 18 29 4535.8 34.16 218.74

DIFFERENTIAL CORRECTIONS

TOE-1.5366 TRA-1.0508 TC3-1.0727 BAU .6586
 RDE .4710 RRA .1123 RC3 .6970 FAU .06298
 FDE-1.7663 FRA -.2255 FC3-1.4158 BSP 7260
 BOE 1.6072 BRA 1.0568 BC3 1.2793 FSP -666

MID-COURSE EXECUTION ACCURACY

SGT 2206.7 SGR 974.6 SG3 208.0
 RRT -.8763 RRF -.9606 RTF .9196
 SGB 2412.3 R23 .2524 R13 -.9408
 SG1 2372.4 SG2 436.7 THA 158.06

ORBIT DETERMINATION ACCURACY

ST 1453.2 SR 436.9 SS 802.8
 CRT -.9897 CRS .9990 CST -.9846
 LSA 1711.8 MSA 130.2 SSA 11.2
 EL1 1516.3 EL2 59.9 ALF 163.40

LAUNCH DATE MAR 3 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.248 GAL -9.32 AZL 96.39 MCA 152.90 SMA 133.82 ECC .19398 INC 6.3912 V1 30.043
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.008 GAP 3.24 AZP 84.31 TAL 227.26 TAP 20.16 RCA 107.86 APO 159.78 V2 34.784
 RC 109.246 GL -29.33 GP 54.01 ZAL 142.18 ZAP 110.84 ETS 33.59 ZAE 117.56 ETE 133.02 ZAC 85.77 ETC 163.48 CLP-127.26

PLANETOCENTRIC CONIC
 C3 40.132 VHL 6.335 CLA -23.92 RAL 18.91 RAD 6568.5 VEL 12.708 PTH 2.31 VHP 6.080 DPA 47.71 RAP 338.84 ECC 1.6605
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 36 6 1524.58 .98 1.28 252.50 118.30 6 1 31 924.6 4.75 354.63
 90.00 10 12 10 605.81 25.37 305.26 261.85 103.01 10 22 16 5.8 26.91 296.93
 100.00 6 37 52 1325.17 -1.11 345.46 251.34 119.87 6 59 58 725.2 2.87 338.94
 100.00 11 53 5 5568.49 27.71 259.80 262.42 101.70 13 25 54 4968.5 29.04 251.25
 110.00 7 7 20 1232.76 -5.87 335.51 248.38 123.74 7 27 53 632.8 -1.39 329.28
 110.00 13 40 6 5233.66 33.21 235.51 263.56 98.59 15 7 20 4633.7 34.04 226.37

DIFFERENTIAL CORRECTIONS
 TDE-1.7886 TRA-1.0152 TC3-1.0916 BAU .6814
 RDE .5323 RRA .0373 RC3 .6490 FAU .05517
 FDE-1.7311 FRA -.1158 FC3-1.1901 BSP 7708
 BDE 1.8661 BRA 1.0158 BC3 1.2699 FSP -604

MID-COURSE EXECUTION ACCURACY
 SGT 2353.4 SGR 953.5 SG3 188.1
 RRT -.8703 RRF -.9625 RTF .9240
 SGB 2539.2 R23 .2614 R13 -.9428
 SG1 2590.4 SG2 442.0 THA 159.92

ORBIT DETERMINATION ACCURACY
 ST 1646.0 SR 482.2 SS 823.0
 CRT -.9867 CRS .9998 CST -.9869
 LSA 1897.7 MSA 133.6 SSA 9.3
 EL1 1713.5 EL2 75.2 ALF 163.85

LAUNCH DATE MAR 3 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.194 GAL -9.12 AZL 97.40 MCA 156.03 SMA 133.41 ECC .19311 INC 7.3993 V1 30.043
 RP 108.94 LAP -3.00 LOP 318.45 VP 37.969 GAP 3.52 AZP 83.23 TAL 226.06 TAP 22.09 RCA 107.65 APO 159.17 V2 34.785
 RC 111.645 GL -33.23 GP 56.86 ZAL 138.52 ZAP 111.06 ETS 38.20 ZAE 114.32 ETE 134.83 ZAC 84.51 ETC 164.33 CLP-131.11

PLANETOCENTRIC CONIC
 C3 42.791 VHL 6.541 CLA -26.92 RAL 21.97 RAD 6568.6 VEL 12.812 PTH 2.33 VHP 6.579 DPA 49.69 RAP 335.67 ECC 1.7042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 19 1336.45 6.99 350.72 259.26 117.51 7 10 35 736.5 10.62 343.93
 90.00 9 24 20 826.31 21.17 320.04 265.56 109.25 9 38 6 226.3 23.61 312.22
 100.00 7 36 8 1182.00 3.74 337.60 257.48 119.68 7 55 50 582.0 7.66 331.01
 100.00 11 19 12 5744.03 24.69 271.96 266.82 107.41 12 54 56 5144.0 26.84 263.82
 110.00 7 49 54 1138.77 -2.29 330.58 253.73 124.12 8 8 53 538.8 2.20 324.38
 110.00 13 21 55 5360.03 31.53 244.98 269.00 103.95 14 51 16 4760.0 33.12 236.12

DIFFERENTIAL CORRECTIONS
 TDE-2.1044 TRA -.9483 TC3-1.0743 BAU .6985
 RDE .5912 RRA -.0527 RC3 .5803 FAU .04714
 FDE-1.6888 FRA -.0106 FC3 -.9537 BSP 8115
 BDE 2.1858 BRA .9498 BC3 1.2210 FSP -535

MID-COURSE EXECUTION ACCURACY
 SGT 2498.2 SGR 920.4 SG3 167.2
 RRT -.8582 RRF -.9615 RTF .9287
 SGB 2662.3 R23 .2680 R13 -.9452
 SG1 2624.0 SG2 449.8 THA 161.90

ORBIT DETERMINATION ACCURACY
 ST 1864.7 SR 518.5 SS 841.1
 CRT -.9836 CRS .9993 CST -.9890
 LSA 2105.8 MSA 137.8 SSA 7.5
 EL1 1933.4 EL2 90.3 ALF 164.67

LAUNCH DATE MAR 3 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.139 GAL -8.92 AZL 98.69 MCA 159.15 SMA 132.99 ECC .19229 INC 8.6899 V1 30.043
 RP 108.93 LAP -3.08 LOP 321.61 VP 37.930 GAP 3.80 AZP 81.87 TAL 224.81 TAP 23.96 RCA 107.42 APO 158.57 V2 34.787
 RC 114.042 GL -37.70 GP 60.17 ZAL 134.26 ZAP 110.68 ETS 43.32 ZAE 110.74 ETE 136.90 ZAC 83.04 ETC 165.58 CLP-135.25

PLANETOCENTRIC CONIC
 C3 47.164 VHL 6.868 CLA -30.30 RAL 25.65 RAD 6568.8 VEL 12.982 PTH 2.37 VHP 7.239 DPA 51.86 RAP 331.62 ECC 1.7762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.74 6 50 9 1398.59 14.86 359.38 268.63 116.71 7 13 28 798.6 18.33 352.27
 101.26 9 51 54 813.09 14.87 316.27 268.64 116.71 10 5 27 213.1 18.34 309.16
 78.74 6 50 9 1398.59 14.86 359.38 268.63 116.71 7 13 28 798.6 18.33 352.27
 101.26 9 51 54 813.09 14.87 316.27 268.64 116.71 10 5 27 213.1 18.34 309.16
 110.00 8 48 23 1013.31 2.50 324.03 261.32 124.10 9 5 16 413.3 6.96 317.79
 110.00 12 52 50 5534.41 28.00 257.32 274.78 110.46 14 25 5 4934.4 30.52 249.03

DIFFERENTIAL CORRECTIONS
 TDE-2.5164 TRA -.8388 TC3-1.0123 BAU .7089
 RDE .6384 RRA -.1596 RC3 .4889 FAU .03915
 FDE-1.6444 FRA .0846 FC3 -.7186 BSP 8535
 BDE 2.5962 BRA .8538 BC3 1.1242 FSP -468

MID-COURSE EXECUTION ACCURACY
 SGT 2645.4 SGR 870.9 SG3 146.2
 RRT -.8365 RRF -.9543 RTF .9353
 SGB 2785.0 R23 .2690 R13 -.9491
 SG1 2746.8 SG2 459.6 THA 164.15

ORBIT DETERMINATION ACCURACY
 ST 2113.9 SR 535.0 SS 858.4
 CRT -.9795 CRS .9975 CST -.9911
 LSA 2339.1 MSA 142.2 SSA 5.9
 EL1 2178.0 EL2 104.5 ALF 166.04

LAUNCH DATE MAR 3 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 28.082 GAL -8.70 AZL 100.41 MCA 162.26 SMA 132.57 ECC .19149 INC10.4114 V1 30.043
 RP 108.93 LAP -3.16 LOP 324.78 VP 37.891 GAP 4.06 AZP 80.07 TAL 223.50 TAP 25.77 RCA 107.18 APO 157.96 V2 34.790
 RC 116.435 GL -42.78 GP 64.02 ZAL 129.31 ZAP 109.64 ETS 49.28 ZAE 106.72 ETE 139.67 ZAC 81.24 ETC 167.62 CLP-140.12

PLANETOCENTRIC CONIC
 C3 54.564 VHL 7.387 CLA -34.02 RAL 30.19 RAD 6569.0 VEL 13.264 PTH 2.42 VHP 8.150 DPA 54.10 RAP 326.26 ECC 1.8980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.30 6 11 17 1612.78 15.27 15.91 276.31 120.78 6 38 9 1012.8 19.24 9.05
 109.70 11 6 57 671.43 15.29 305.73 276.32 120.77 11 18 9 71.4 19.25 298.87
 70.30 6 11 17 1612.78 15.27 15.91 276.31 120.78 6 38 9 1012.8 19.24 9.05
 109.70 11 6 57 671.43 15.29 305.73 276.32 120.77 11 18 9 71.4 19.25 298.87
 110.00 10 43 34 742.78 12.61 309.61 274.64 122.04 10 55 57 142.8 16.76 302.96
 110.00 11 33 51 5877.47 17.97 278.87 277.96 119.58 13 11 48 5277.5 21.77 271.80

DIFFERENTIAL CORRECTIONS
 TDE-3.0734 TRA -.6595 TC3 -.8940 BAU .7061
 RDE .6387 RRA -.2900 RC3 .3711 FAU .03118
 FDE-1.5968 FRA .1730 FC3 -.4947 BSP 8911
 BDE 3.1390 BRA .7205 BC3 .9680 FSP -397

MID-COURSE EXECUTION ACCURACY
 SGT 2794.3 SGR 787.2 SG3 125.0
 RRT -.7899 RRF -.9289 RTF -.9441
 SGB 2903.1 R23 .2629 R13 -.9547
 SG1 2864.6 SG2 470.9 THA 167.10

ORBIT DETERMINATION ACCURACY
 ST 2391.4 SR 502.3 SS 873.0
 CRT -.9711 CRS .9923 CST -.9932
 LSA 2590.7 MSA 146.5 SSA 4.6
 EL1 2440.8 EL2 117.4 ALF 168.44

LAUNCH DATE MAR 3 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 348.811

RL 148.31 LAL .00 LOL 162.24 VL 28.025 GAL -8.48 AZL 102.84 MCA 165.35 SMA 132.14 ECC .19071 INC12.8352 V1 30.043
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.852 GAP 4.31 AZP 77.57 TAL 222.15 TAP 27.50 RCA 106.94 APO 157.35 V2 34.794
 RC 118.823 GL -48.40 GP 68.45 ZAL 123.64 ZAP 107.89 ETS 56.91 ZAE 102.06 ETE 144.07 ZAC 78.90 ETC 171.40 CLP-146.77

PLANETOCENTRIC CONIC

C3 67.810 VHL 8.235 CLA -37.92 RAL 35.87 RAD 6569.3 VEL 13.754 PTH 2.51 VHP 9.477 DPA 56.15 RAP 318.96 ECC 2.1160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.65 5 57 16 1775.04 14.76 28.52 286.09 125.34 6 26 51 1175.0 19.28 22.03
 116.35 12 6 21 614.68 14.78 300.86 286.10 125.33 12 16 35 14.7 19.29 294.37
 63.65 5 57 16 1775.04 14.76 28.52 286.09 125.34 6 26 51 1175.0 19.28 22.03
 116.35 12 6 21 614.68 14.78 300.86 286.10 125.33 12 16 35 14.7 19.29 294.37
 63.65 5 57 16 1775.04 14.76 28.52 286.09 125.34 6 26 51 1175.0 19.28 22.03
 116.35 12 6 21 614.68 14.78 300.86 286.10 125.33 12 16 35 14.7 19.29 294.37

DIFFERENTIAL CORRECTIONS

TDE-3.8601 TRA -.3622 TC3 -.7147 BAU .6812
 RDE .4928 RRA -.4399 RC3 .2321 FAU .02346
 FDE-1.5558 FRA .2535 FC3 -.2996 BSP 9319
 BDE 3.8915 BRA .5698 BC3 .7515 FSP -331

MID-COURSE EXECUTION ACCURACY

SGT 2949.8 SGR 643.6 SG3 104.6
 RRT -.6568 RRF -.8299 RTF .9569
 SGB 3019.2 R23 .2443 R13 -.9630
 SG1 2980.8 SG2 480.3 THA 171.63

ORBIT DETERMINATION ACCURACY

ST 2687.8 SR 362.3 SS 888.2
 CRT -.9347 CRS .9648 CST -.9952
 LSA 2849.9 MSA 149.2 SSA 3.4
 EL1 2709.1 EL2 127.7 ALF 172.80

LAUNCH DATE MAR 3 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 354.679

RL 148.31 LAL .00 LOL 162.24 VL 27.966 GAL -8.24 AZL 106.51 MCA 168.41 SMA 131.72 ECC .18990 INC16.5114 V1 30.043
 RP 108.90 LAP -3.27 LOP 331.12 VP 37.812 GAP 4.53 AZP 73.81 TAL 220.73 TAP 29.13 RCA 106.70 APO 156.73 V2 34.798
 RC 121.206 GL -54.30 GP 73.37 ZAL 117.26 ZAP 105.40 ETS 68.41 ZAE 96.47 ETE 152.45 ZAC 75.70 ETC 179.27 CLP-158.13

PLANETOCENTRIC CONIC

C3 93.832 VHL 9.687 CLA -41.57 RAL 43.07 RAD 6569.8 VEL 14.669 PTH 2.66 VHP 11.559 DPA 57.46 RAP 309.03 ECC 2.5442
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.19 6 0 39 1921.13 12.75 39.24 298.27 129.91 6 32 40 1321.1 17.80 33.22
 121.81 13 0 24 617.22 12.77 299.48 298.29 129.91 13 10 41 17.2 17.82 293.46
 58.19 6 0 39 1921.13 12.75 39.24 298.27 129.91 6 32 40 1321.1 17.80 33.22
 121.81 13 0 24 617.22 12.77 299.48 298.29 129.91 13 10 41 17.2 17.82 293.46
 58.19 6 0 39 1921.13 12.75 39.24 298.27 129.91 6 32 40 1321.1 17.80 33.22
 121.81 13 0 24 617.22 12.77 299.48 298.29 129.91 13 10 41 17.2 17.82 293.46

DIFFERENTIAL CORRECTIONS

TDE-4.9798 TRA .1704 TC3 -.4767 BAU .6082
 RDE -.1510 RRA -.5612 RC3 .0882 FAU .01596
 FDE-1.5369 FRA .3368 FC3 -.1473 BSP 9721
 BDE 4.9821 BRA .5865 BC3 .4848 FSP -270

MID-COURSE EXECUTION ACCURACY

SGT 3089.8 SGR 483.8 SG3 85.5
 RRT .0304 RRF -.1791 RTF .9739
 SGB 3127.5 R23 -.2095 R13 .9738
 SG1 3089.9 SG2 483.6 THA .28

ORBIT DETERMINATION ACCURACY

ST 2945.9 SR 160.4 SS 911.5
 CRT .5450 CRS -.4817 CST -.9973
 LSA 3084.2 MSA 149.5 SSA 2.6
 EL1 2947.2 EL2 134.4 ALF 1.70

LAUNCH DATE MAR 3 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 360.452

RL 148.31 LAL .00 LOL 162.24 VL 27.907 GAL -7.97 AZL 112.72 MCA 171.38 SMA 131.28 ECC .18897 INC22.7233 V1 30.043
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.773 GAP 4.73 AZP 67.51 TAL 219.22 TAP 30.60 RCA 106.48 APO 156.09 V2 34.803
 RC 123.581 GL -59.62 GP 77.77 ZAL 110.33 ZAP 102.20 ETS 90.28 ZAE 89.35 ETE 171.40 ZAC 70.97 ETC 197.91 CLP 176.37

PLANETOCENTRIC CONIC

C3 153.141 VHL 12.375 CLA -43.98 RAL 52.01 RAD 6570.7 VEL 16.567 PTH 2.88 VHP 15.177 DPA 56.86 RAP 296.11 ECC 3.5203
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.82 6 22 28 2056.01 8.85 47.65 312.71 133.26 6 56 44 1456.0 14.27 42.06
 125.18 13 49 50 677.43 8.86 301.27 312.73 133.26 14 1 8 77.4 14.28 295.69
 54.82 6 22 28 2056.01 8.85 47.65 312.71 133.26 6 56 44 1456.0 14.27 42.06
 125.18 13 49 50 677.43 8.86 301.27 312.73 133.26 14 1 8 77.4 14.28 295.69
 54.82 6 22 28 2056.01 8.85 47.65 312.71 133.26 6 56 44 1456.0 14.27 42.06
 125.18 13 49 50 677.43 8.86 301.27 312.73 133.26 14 1 8 77.4 14.28 295.69

DIFFERENTIAL CORRECTIONS

TDE-6.1062 TRA 1.1757 TC3 -.2012 BAU .4122
 RDE-2.6234 RRA -.2970 RC3 -.0055 FAU .00799
 FDE-1.5814 FRA .4551 FC3 -.0452 BSP 9919
 BDE 6.6459 BRA 1.2126 BC3 .2013 FSP -215

MID-COURSE EXECUTION ACCURACY

SGT 2968.7 SGR 1229.6 SG3 68.8
 RRT .9030 RRF .8525 RTF .9927
 SGB 3213.3 R23 -.1612 R13 .9848
 SG1 3175.1 SG2 494.0 THA 21.04

ORBIT DETERMINATION ACCURACY

ST 2836.3 SR 1216.0 SS 967.0
 CRT .9919 CRS -.9862 CST -.9992
 LSA 3230.3 MSA 152.1 SSA 2.0
 EL1 3082.7 EL2 142.1 ALF 23.09

LAUNCH DATE MAR 3 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 366.004

RL 148.31 LAL .00 LOL 162.24 VL 27.848 GAL -7.65 AZL 125.06 MCA 174.16 SMA 130.85 ECC .18764 INC35.0597 V1 30.043
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.734 GAP 4.86 AZP 55.08 TAL 217.56 TAP 31.71 RCA 106.30 APO 155.41 V2 34.808
 RC 125.948 GL -61.74 GP 76.27 ZAL 103.29 ZAP 98.46 ETS 131.47 ZAE 79.06 ETE 209.88 ZAC 62.98 ETC 236.70 CLP 128.33

PLANETOCENTRIC CONIC

C3 323.956 VHL 17.999 CLA -42.78 RAL 61.94 RAD 6571.8 VEL 21.101 PTH 3.20 VHP 22.447 DPA 51.92 RAP 281.25 ECC 6.3315
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.48 7 8 44 2147.21 3.65 50.93 327.97 132.66 7 44 31 1547.2 9.04 45.40
 123.52 14 22 51 804.09 3.67 307.73 327.99 132.66 14 36 15 204.1 9.06 302.20
 56.48 7 8 44 2147.21 3.65 50.93 327.97 132.66 7 44 31 1547.2 9.04 45.40
 123.52 14 22 51 804.09 3.67 307.73 327.99 132.66 14 36 15 204.1 9.06 302.20
 56.48 7 8 44 2147.21 3.65 50.93 327.97 132.66 7 44 31 1547.2 9.04 45.40
 123.52 14 22 51 804.09 3.67 307.73 327.99 132.66 14 36 15 204.1 9.06 302.20

DIFFERENTIAL CORRECTIONS

TDE-3.3809 TRA 2.2236 TC3 -.0141 BAU .3076
 RDE-8.7187 RRA 1.8753 RC3 .0696 FAU-.00370
 FDE-1.8004 FRA .7084 FC3 .0099 BSP 10113
 BDE 9.3513 BRA 2.9088 BC3 .0710 FSP -178

MID-COURSE EXECUTION ACCURACY

SGT 1446.1 SGR 2903.0 SG3 56.3
 RRT .8954 RRF .9783 RTF .9677
 SGB 3243.2 R23 -.1221 R13 .9922
 SG1 3189.9 SG2 586.0 THA 65.06

ORBIT DETERMINATION ACCURACY

ST 1114.5 SR 2786.2 SS 1125.8
 CRT .9847 CRS -.9974 CST -.9947
 LSA 3199.5 MSA 187.4 SSA .9
 EL1 2995.3 EL2 180.5 ALF 68.42

LAUNCH DATE MAR 3 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 27.788 GAL -7.19 AZL 154.43 HCA 176.26 SMA 130.42 ECC .18481 INC64.4334 V1 30.043
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.696 GAP 4.79 AZP 25.61 TAL 215.41 TAP 31.67 RCA 106.32 APO 154.53 V2 34.815
 RC 128.306 GL -53.27 GP 60.70 ZAL 97.23 ZAP 94.81 ETS 164.53 ZAE 60.86 ETE 239.47 ZAC 46.62 ETC 269.69 CLP 99.87

PLANETOCENTRIC CONIC
 C3 962.902 VHL 31.031 DLA -31.94 RAL 69.43 RAD 6572.9 VEL 32.927 PTH 3.49 VHP 38.950 OPA 36.87 RAP 267.81 ECC16.8469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.56 9 15 5 1945.52 -.17 31.80 339.67 121.94 9 47 31 1345.5 4.06 25.42
 105.44 13 16 13 1172.77 -.15 334.59 339.68 121.94 13 35 46 572.8 4.08 328.21
 74.56 9 15 5 1945.52 -.17 31.80 339.67 121.94 9 47 31 1345.5 4.06 25.42
 105.44 13 16 13 1172.77 -.15 334.59 339.68 121.94 13 35 46 572.8 4.08 328.21
 110.00 12 12 2 1372.04 -11.06 342.95 332.79 122.55 12 34 54 772.0 -6.69 336.59
 110.00 15 18 27 794.25 10.74 312.42 346.58 122.65 15 31 41 194.3 14.97 305.87

DIFFERENTIAL CORRECTIONS
 TOE 3.1335 TRA 1.4010 TC3 -.0479 BAU 2.4228
 RO-12.3538 RRA 6.6596 RC3 .1820 FAU-.03708
 FDE-2.3175 FRA 1.4450 FC3 .0333 BSP 9423
 BOE12.7450 BRA 6.8054 BC3 .1882 FSP -159

MID-COURSE EXECUTION ACCURACY
 SGT 718.4 SGR 2929.0 SG3 49.2
 RRT -.5769 RRF .9977 RTF -.5209
 SGB 3015.8 R23 -.0958 R13 .9954
 SG1 2959.3 SG2 580.8 THA 98.38

ORBIT DETERMINATION ACCURACY
 ST 585.8 SR 2322.3 SS 1474.8
 CRT -.9411 CRS -.9996 CST .9310
 LSA 2805.5 MSA 201.9 SSA .4
 EL1 2387.3 EL2 192.8 ALF 103.44

LAUNCH DATE MAR 3 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 27.727 GAL -7.85 AZL 24.61 HCA 183.73 SMA 130.00 ECC .10523 INC65.3915 V1 30.043
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.657 GAP 6.27 AZP 155.35 TAL 216.53 TAP 40.26 RCA 104.62 APO 155.38 V2 34.821
 RC 130.653 GL 52.63 GP -60.05 ZAL 97.71 ZAP 96.21 ETS 184.08 ZAE 64.85 ETE 110.16 ZAC 74.28 ETC 84.12 CLP 102.50

PLANETOCENTRIC CONIC
 C3 987.452 VHL 31.424 DLA 69.57 RAL 27.94 RAD 6572.9 VEL 33.298 PTH 3.50 VHP 39.215 OPA -82.57 RAP 230.56 ECC17.2510
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.36 15 15 24 5079.60 .35 246.79 298.08 20.43 16 40 3 4479.6 -7.15 244.40
 156.64 1 44 54 3329.08 .36 97.26 298.06 20.43 2 40 24 2729.1 -7.14 94.87
 23.36 15 15 24 5079.60 .35 246.79 298.08 20.43 16 40 3 4479.6 -7.15 244.40
 156.64 1 44 54 3329.08 .36 97.26 298.06 20.43 2 40 24 2729.1 -7.14 94.87
 23.36 15 15 24 5079.60 .35 246.79 298.08 20.43 16 40 3 4479.6 -7.15 244.40
 156.64 1 44 54 3329.08 .36 97.26 298.06 20.43 2 40 24 2729.1 -7.14 94.87

DIFFERENTIAL CORRECTIONS
 TOE-2.5227 TRA 1.3745 TC3 -.0788 BAU 2.6502
 RO-14.4382 RRA 1.4762 RC3 -.1846 FAU-.03802
 FDE 2.8425 FRA -.2592 FC3 .0333 BSP 9673
 BOE14.6569 BRA 2.0170 BC3 .2008 FSP -163

MID-COURSE EXECUTION ACCURACY
 SGT 986.1 SGR 2978.5 SG3 49.7
 RRT .7964 RRF -.9993 RTF -.7746
 SGB 3137.5 R23 -.0861 R13 -.9962
 SG1 3084.2 SG2 575.9 THA 74.60

ORBIT DETERMINATION ACCURACY
 ST 508.1 SR 2642.9 SS 1761.5
 CRT .9392 CRS 1.0000 CST .9359
 LSA 3211.8 MSA 174.5 SSA .9
 EL1 2685.8 EL2 171.8 ALF 79.72

LAUNCH DATE MAR 3 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 27.667 GAL -7.36 AZL 54.27 HCA 185.82 SMA 129.57 ECC .19232 INC35.7295 V1 30.043
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.620 GAP 6.18 AZP 125.59 TAL 214.42 TAP 40.24 RCA 104.65 APO 154.49 V2 34.829
 RC 132.989 GL 61.43 GP -74.37 ZAL 102.59 ZAP 100.68 ETS 211.84 ZAE 83.39 ETE 136.21 ZAC 91.30 ETC 113.28 CLP 133.43

PLANETOCENTRIC CONIC
 C3 332.852 VHL 18.244 DLA 70.15 RAL 353.49 RAD 6571.9 VEL 21.311 PTH 3.21 VHP 22.621 OPA -78.30 RAP 66.56 ECC 6.4779
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.69 12 56 32 4999.81 -4.87 245.59 261.74 19.92 14 19 52 4399.8 -12.39 243.22
 157.31 23 25 1 3245.61 -4.87 95.35 261.72 19.92 24 19 7 2645.6 -12.38 92.99
 22.69 12 56 32 4999.81 -4.87 245.59 261.74 19.92 14 19 52 4399.8 -12.39 243.22
 157.31 23 25 1 3245.61 -4.87 95.35 261.72 19.92 24 19 7 2645.6 -12.38 92.99
 22.69 12 56 32 4999.81 -4.87 245.59 261.74 19.92 14 19 52 4399.8 -12.39 243.22
 157.31 23 25 1 3245.61 -4.87 95.35 261.72 19.92 24 19 7 2645.6 -12.38 92.99

DIFFERENTIAL CORRECTIONS
 TOE 2.9279 TRA -.3523 TC3 -.0161 BAU .3998
 ROE-5.3626 RRA 3.1955 RC3 -.0884 FAU-.00139
 FDE 1.3354 FRA -.5733 FC3 .0036 BSP 11020
 BOE 6.1099 BRA 3.2149 BC3 .0898 FSP -189

MID-COURSE EXECUTION ACCURACY
 SGT 977.3 SGR 3417.0 SG3 58.4
 RRT -.7464 RRF -.9858 RTF .8438
 SGB 3554.0 R23 -.1225 R13 -.9915
 SG1 3496.7 SG2 635.5 THA 102.47

ORBIT DETERMINATION ACCURACY
 ST 924.7 SR 1903.3 SS 876.6
 CRT -.9291 CRS .9926 CST -.9672
 LSA 2268.8 MSA 313.9 SSA 1.6
 EL1 2093.1 EL2 310.9 ALF 114.88

LAUNCH DATE MAR 3 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 148.31 LAL .00 LOL 162.24 VL 27.606 GAL -7.01 AZL 66.72 HCA 188.60 SMA 129.15 ECC .19129 INC23.2845 V1 30.043
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.583 GAP 6.29 AZP 113.05 TAL 212.65 TAP 41.25 RCA 104.44 APO 153.85 V2 34.837
 RC 135.313 GL 60.29 GP -73.76 ZAL 107.75 ZAP 106.12 ETS 261.92 ZAE 93.96 ETE 185.14 ZAC 100.29 ETC 163.50 CLP 173.06

PLANETOCENTRIC CONIC
 C3 155.497 VHL 12.470 DLA 65.22 RAL 347.67 RAD 6570.7 VEL 16.638 PTH 2.89 VHP 15.373 OPA -67.11 RAP 56.96 ECC 3.5591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.43 12 46 3 4872.72 -11.44 239.33 252.32 25.32 14 7 16 4272.7 -18.65 236.15
 151.57 22 49 4 3154.19 -11.43 95.32 252.30 25.32 23 41 38 2554.2 -18.64 92.14
 28.43 12 46 3 4872.72 -11.44 239.33 252.32 25.32 14 7 16 4272.7 -18.65 236.15
 151.57 22 49 4 3154.19 -11.43 95.32 252.30 25.32 23 41 38 2554.2 -18.64 92.14
 28.43 12 46 3 4872.72 -11.44 239.33 252.32 25.32 14 7 16 4272.7 -18.65 236.15
 151.57 22 49 4 3154.19 -11.43 95.32 252.30 25.32 23 41 38 2554.2 -18.64 92.14

DIFFERENTIAL CORRECTIONS
 TOE 3.2483 TRA-2.6637 TC3 -.1724 BAU .3648
 ROE -.5427 RRA 1.5467 RC3 .0327 FAU .01272
 FDE .9484 FRA -.6278 FC3 -.0708 BSP 11553
 BOE 3.2933 BRA 3.0802 BC3 .1755 FSP -233

MID-COURSE EXECUTION ACCURACY
 SGT 3307.3 SGR 1715.7 SG3 72.0
 RRT -.9443 RRF -.9021 RTF .9925
 SGB 3725.9 R23 -.1744 R13 -.9828
 SG1 3691.3 SG2 506.1 THA 153.36

ORBIT DETERMINATION ACCURACY
 ST 1730.6 SR 566.5 SS 640.5
 CRT -.8341 CRS .7823 CST -.9961
 LSA 1905.0 MSA 311.9 SSA 1.9
 EL1 1795.9 EL2 301.1 ALF 164.27

LAUNCH DATE MAR 3 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 397.200

RL 148.31 LAL .00 LOL 162.24 VL 27.546 GAL -6.70 AZL 72.97 MCA 191.58 SMA 128.73 ECC .19086 INC17.0311 V1 30.043
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.546 GAP 6.46 AZP 106.70 TAL 210.98 TAP 42.56 RCA 104.16 APO 153.30 V2 34.846
 RC 137.625 GL 56.39 GP -67.90 ZAL 112.26 ZAP 111.71 ETS 284.43 ZAE 101.31 ETE 206.01 ZAC 106.32 ETC 185.45 CLP-169.51

PLANETOCENTRIC CONIC

C3 92.558 VHL 9.621 OLA 60.58 RAL 350.06 RAD 6569.8 VEL 14.625 PTH 2.65 VHP 11.848 DPA -58.54 RAP 51.99 ECC 2.5233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.92 13 8 41 4747.45 -17.04 231.98 250.12 30.91 14 27 48 4147.4 -23.85 227.92
 146.08 22 45 30 3072.95 -17.03 94.36 250.11 30.91 23 36 43 2472.9 -23.84 90.30
 33.92 13 8 41 4747.45 -17.04 231.98 250.12 30.91 14 27 48 4147.4 -23.85 227.92
 146.08 22 45 30 3072.95 -17.03 94.36 250.11 30.91 23 36 43 2472.9 -23.84 90.30
 33.92 13 8 41 4747.45 -17.04 231.98 250.12 30.91 14 27 48 4147.4 -23.85 227.92
 146.08 22 45 30 3072.95 -17.03 94.36 250.11 30.91 23 36 43 2472.9 -23.84 90.30

DIFFERENTIAL CORRECTIONS

TDE 2.4020 TRA-2.7963 TC3 -.5085 BAU .6297
 RDE .4808 RRA .3744 RC3 -.0181 FAU .02181
 FDE .8997 FRA -.6462 FC3 -.2040 BSP 11997
 BDE 2.4496 BRA 2.8213 BC3 .5089 FSP -291

MID-COURSE EXECUTION ACCURACY

SGT 3807.6 SGR 537.8 SG3 88.7
 RRT -.5349 RRF -.3414 RTF .9734
 SGB 3845.4 R23 -.2210 R13 -.9714
 SG1 3818.6 SG2 455.1 THA 175.62

ORBIT DETERMINATION ACCURACY

ST 1755.5 SR 317.1 SS 599.1
 CRT .4871 CRS -.6544 CST -.9791
 LSA 1858.3 MSA 296.0 SSA 2.6
 EL1 1762.4 EL2 275.8 ALF 5.15

LAUNCH DATE MAR 3 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 402.968

RL 148.31 LAL .00 LOL 162.24 VL 27.485 GAL -6.40 AZL 76.66 MCA 194.64 SMA 128.32 ECC .19074 INC13.3358 V1 30.043
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.511 GAP 6.64 AZP 102.92 TAL 209.34 TAP 43.97 RCA 103.84 APO 152.79 V2 34.855
 RC 139.923 GL 52.03 GP -61.57 ZAL 115.91 ZAP 117.09 ETS 292.69 ZAE 106.98 ETE 212.10 ZAC 111.03 ETC 192.64 CLP-163.06

PLANETOCENTRIC CONIC

C3 63.875 VHL 7.992 OLA 56.55 RAL 354.03 RAD 6569.2 VEL 13.610 PTH 2.49 VHP 9.899 DPA -51.22 RAP 48.91 ECC 2.0512
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.77 13 37 8 4637.51 -21.04 224.50 249.32 36.20 14 54 26 4037.5 -27.41 219.61
 141.23 22 48 40 3011.63 -21.03 93.02 249.30 36.20 23 38 52 2411.6 -27.40 88.12
 38.77 13 37 8 4637.51 -21.04 224.50 249.32 36.20 14 54 26 4037.5 -27.41 219.61
 141.23 22 48 40 3011.63 -21.03 93.02 249.30 36.20 23 38 52 2411.6 -27.40 88.12
 38.77 13 37 8 4637.51 -21.04 224.50 249.32 36.20 14 54 26 4037.5 -27.41 219.61
 141.23 22 48 40 3011.63 -21.03 93.02 249.30 36.20 23 38 52 2411.6 -27.40 88.12

DIFFERENTIAL CORRECTIONS

TDE 1.9599 TRA-2.5956 TC3 -.8871 BAU .7628
 RDE .6021 RRA .0367 RC3 -.1043 FAU .02911
 FDE .9027 FRA -.6435 FC3 -.3945 BSP 12393
 BDE 2.0502 BRA 2.5958 BC3 .8932 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 3921.6 SGR 465.1 SG3 106.4
 RRT .3738 RRF .6014 RTF .9583
 SGB 3949.1 R23 .2575 R13 .9596
 SG1 3925.5 SG2 431.0 THA 2.57

ORBIT DETERMINATION ACCURACY

ST 1732.4 SR 431.9 SS 593.9
 CRT .7914 CRS -.9197 CST -.9678
 LSA 1859.5 MSA 287.8 SSA 3.4
 EL1 1766.6 EL2 258.9 ALF 11.41

LAUNCH DATE MAR 3 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 408.766

RL 148.31 LAL .00 LOL 162.24 VL 27.425 GAL -6.09 AZL 79.10 MCA 197.74 SMA 127.91 ECC .19082 INC10.9017 V1 30.043
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.475 GAP 6.84 AZP 100.39 TAL 207.69 TAP 45.43 RCA 103.50 APO 152.31 V2 34.865
 RC 142.207 GL 47.85 GP -55.69 ZAL 118.70 ZAP 122.10 ETS 296.68 ZAE 111.50 ETE 213.52 ZAC 115.01 ETC 195.21 CLP-160.53

PLANETOCENTRIC CONIC

C3 48.397 VHL 6.957 OLA 53.09 RAL 358.13 RAD 6568.8 VEL 13.029 PTH 2.38 VHP 8.729 DPA -44.76 RAP 47.01 ECC 1.7965
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.02 14 5 34 4543.66 -23.66 217.38 248.93 40.98 15 21 17 3943.7 -29.59 211.77
 136.98 22 52 59 2968.98 -23.65 91.72 248.91 40.97 23 42 28 2369.0 -29.57 86.12
 43.02 14 5 34 4543.66 -23.66 217.38 248.93 40.98 15 21 17 3943.7 -29.59 211.77
 136.98 22 52 59 2968.98 -23.65 91.72 248.91 40.97 23 42 28 2369.0 -29.57 86.12
 43.02 14 5 34 4543.66 -23.66 217.38 248.93 40.98 15 21 17 3943.7 -29.59 211.77
 136.98 22 52 59 2968.98 -23.65 91.72 248.91 40.97 23 42 28 2369.0 -29.57 86.12

DIFFERENTIAL CORRECTIONS

TDE 1.7119 TRA-2.4017 TC3 -1.2859 BAU .8400
 RDE .5725 RRA -.0608 RC3 -.1787 FAU .03498
 FDE .9025 FRA -.6165 FC3 -.6258 BSP 12648
 BDE 1.8051 BRA 2.4024 BC3 1.2982 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 4004.3 SGR 539.6 SG3 123.0
 RRT .6407 RRF .8302 RTF .9458
 SGB 4040.5 R23 .2836 R13 .9484
 SG1 4019.4 SG2 412.7 THA 4.99

ORBIT DETERMINATION ACCURACY

ST 1722.4 SR 472.3 SS 592.7
 CRT .8482 CRS -.9621 CST -.9604
 LSA 1860.8 MSA 280.4 SSA 4.4
 EL1 1769.3 EL2 243.6 ALF 13.35

LAUNCH DATE MAR 3 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 414.575

RL 148.31 LAL .00 LOL 162.24 VL 27.365 GAL -5.78 AZL 80.83 MCA 200.87 SMA 127.50 ECC .19107 INC 9.1739 V1 30.043
 RP 108.66 LAP -3.26 LOP 360.74 VP 37.441 GAP 7.03 AZP 98.58 TAL 206.04 TAP 46.90 RCA 103.14 APO 151.86 V2 34.875
 RC 144.478 GL 44.03 GP -50.43 ZAL 120.69 ZAP 126.67 ETS 299.09 ZAE 115.14 ETE 213.14 ZAC 118.51 ETC 196.01 CLP-159.64

PLANETOCENTRIC CONIC

C3 39.001 VHL 6.245 OLA 50.14 RAL 2.07 RAD 6568.5 VEL 12.664 PTH 2.30 VHP 7.991 DPA -39.02 RAP 45.95 ECC 1.6419
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.72 14 32 41 4463.24 -25.30 210.83 248.84 45.15 15 47 4 3863.2 -30.79 204.65
 133.28 22 57 18 2940.74 -25.29 90.67 248.82 45.14 23 46 19 2340.7 -30.78 84.50
 46.72 14 32 41 4463.24 -25.30 210.83 248.84 45.15 15 47 4 3863.2 -30.79 204.65
 133.28 22 57 18 2940.74 -25.29 90.67 248.82 45.14 23 46 19 2340.7 -30.78 84.50
 46.72 14 32 41 4463.24 -25.30 210.83 248.84 45.15 15 47 4 3863.2 -30.79 204.65
 133.28 22 57 18 2940.74 -25.29 90.67 248.82 45.14 23 46 19 2340.7 -30.78 84.50

DIFFERENTIAL CORRECTIONS

TDE 1.5432 TRA-2.2375 TC3 -1.6997 BAU .8947
 RDE .5174 RRA -.0856 RC3 -.2357 FAU .03969
 FDE .8842 FRA -.5727 FC3 -.8810 BSP 12993
 BDE 1.6276 BRA 2.2391 BC3 1.7160 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 4095.2 SGR 571.8 SG3 137.7
 RRT .7215 RRF .8080 RTF .9360
 SGB 4134.9 R23 .2981 R13 .9397
 SG1 4116.1 SG2 393.9 THA 5.81

ORBIT DETERMINATION ACCURACY

ST 1712.3 SR 476.2 SS 585.7
 CRT .8683 CRS -.9764 CST -.9548
 LSA 1851.2 MSA 273.3 SSA 5.5
 EL1 1762.4 EL2 229.5 ALF 13.81

LAUNCH DATE MAR 3 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 420.387
RL 148.31 LAL .00 LOL 162.24 VL 27.305 GAL -5.47 AZL 82.12 MCA 204.01 SMA 127.10 ECC .19147 INC 7.8792 V1 30.043
RP 108.63 LAP -3.20 LOP 6.05 VP 37.407 GAP 7.24 AZP 97.21 TAL 204.37 TAP 48.38 RCA 102.77 APO 151.44 V2 34.885
RC 146.734 GL 40.60 GP -45.80 ZAL 121.97 ZAP 130.78 ETS 300.79 ZAE 118.07 ETE 211.96 ZAC 121.67 ETC 196.02 CLP-159.53

PLANETOCENTRIC CONIC

C3 32.784 VHL 5.726 DLA 47.64 RAL 5.83 RAD 6568.3 VEL 12.416 PTH 2.24 VHP 7.512 DPA -33.91 RAP 45.49 ECC 1.5395
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
49.94 14 58 23 4393.42 -26.28 204.91 249.08 48.72 16 11 37 3793.4 -31.39 198.29
130.06 23 1 34 2922.87 -26.27 89.92 249.06 48.71 23 50 17 2322.9 -31.38 83.30
49.94 14 58 23 4393.42 -26.28 204.91 249.08 48.72 16 11 37 3793.4 -31.39 198.29
130.06 23 1 34 2922.87 -26.27 89.92 249.06 48.71 23 50 17 2322.9 -31.38 83.30
49.94 14 58 23 4393.42 -26.28 204.91 249.08 48.72 16 11 37 3793.4 -31.39 198.29
130.06 23 1 34 2922.87 -26.27 89.92 249.06 48.71 23 50 17 2322.9 -31.38 83.30

DIFFERENTIAL CORRECTIONS

TDE 1.4018 TRA-2.1076 TC3-2.1417 BAU .9468
RDE .4599 RRA -.0908 RC3 -.2822 FAU .04379
FDE .8394 FRA -.5268 FC3-1.1564 BSP 13782
BDE 1.4753 BRA 2.1095 BC3 2.1602 FSP -528

MID-COURSE EXECUTION ACCURACY

SGT 4216.8 SGR 578.3 SG3 151.4
RRT .7628 RRF .9078 RTF .9303
SGB 4256.2 R23 .2977 R13 .9331
SG1 4240.0 SG2 371.9 THA 6.02

ORBIT DETERMINATION ACCURACY

ST 1689.7 SR 462.1 SS 566.7
CRT .8764 CRS -.9827 CST -.9501
LSA 1822.0 MSA 264.8 SSA 6.7
EL1 1738.3 EL2 216.3 ALF 13.70

LAUNCH DATE MAR 3 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 426.204
RL 148.31 LAL .00 LOL 162.24 VL 27.245 GAL -5.14 AZL 83.13 MCA 207.16 SMA 126.71 ECC .19200 INC 6.8681 V1 30.043
RP 108.59 LAP -3.13 LOP 9.23 VP 37.374 GAP 7.44 AZP 96.12 TAL 202.69 TAP 49.85 RCA 102.38 APO 151.04 V2 34.897
RC 148.977 GL 37.52 GP -41.75 ZAL 122.63 ZAP 134.45 ETS 302.11 ZAE 120.43 ETE 210.45 ZAC 124.59 ETC 195.67 CLP-159.83

PLANETOCENTRIC CONIC

C3 28.388 VHL 5.328 DLA 45.54 RAL 9.45 RAD 6568.1 VEL 12.238 PTH 2.20 VHP 7.199 DPA -29.35 RAP 45.51 ECC 1.4672
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
52.72 15 22 49 4332.03 -26.86 199.63 249.66 51.74 16 35 1 3732.0 -31.62 192.67
127.28 23 6 2 2912.01 -26.85 89.43 249.65 51.73 23 54 34 2312.0 -31.61 82.48
52.72 15 22 49 4332.03 -26.86 199.63 249.66 51.74 16 35 1 3732.0 -31.62 192.67
127.28 23 6 2 2912.01 -26.85 89.43 249.65 51.73 23 54 34 2312.0 -31.61 82.48
52.72 15 22 49 4332.03 -26.86 199.63 249.66 51.74 16 35 1 3732.0 -31.62 192.67
127.28 23 6 2 2912.01 -26.85 89.43 249.65 51.73 23 54 34 2312.0 -31.61 82.48

DIFFERENTIAL CORRECTIONS

TDE 1.3501 TRA-1.9277 TC3-2.5102 BAU .9590
RDE .4288 RRA -.0680 RC3 -.2892 FAU .04462
FDE .8299 FRA -.4235 FC3-1.3608 BSP 13095
BDE 1.4166 BRA 1.9289 BC3 2.5268 FSP -495

MID-COURSE EXECUTION ACCURACY

SGT 4245.2 SGR 564.3 SG3 157.5
RRT .7524 RRF .9005 RTF .9175
SGB 4282.5 R23 .3111 R13 .9202
SG1 4266.5 SG2 369.9 THA 5.76

ORBIT DETERMINATION ACCURACY

ST 1703.7 SR 462.3 SS 568.9
CRT .8863 CRS -.9888 CST -.9450
LSA 1835.8 MSA 264.0 SSA 7.9
EL1 1753.0 EL2 208.1 ALF 13.72

LAUNCH DATE MAR 3 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 432.012
RL 148.31 LAL .00 LOL 162.24 VL 27.186 GAL -4.81 AZL 83.95 MCA 210.31 SMA 126.32 ECC .19268 INC 6.0528 V1 30.043
RP 108.56 LAP -3.05 LOP 12.42 VP 37.342 GAP 7.65 AZP 95.23 TAL 201.00 TAP 51.32 RCA 101.98 APO 150.66 V2 34.908
RC 151.204 GL 34.74 GP -38.22 ZAL 122.75 ZAP 137.72 ETS 303.18 ZAE 122.33 ETE 208.82 ZAC 127.33 ETC 195.16 CLP-160.35

PLANETOCENTRIC CONIC

C3 25.127 VHL 5.013 DLA 43.75 RAL 12.99 RAD 6568.0 VEL 12.104 PTH 2.17 VHP 6.997 DPA -25.29 RAP 45.88 ECC 1.4135
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
55.14 15 46 13 4277.39 -27.18 194.90 250.57 54.29 16 57 31 3677.4 -31.64 187.69
124.86 23 10 51 2906.09 -27.16 89.15 250.55 54.28 23 59 17 2306.1 -31.63 81.95
55.14 15 46 13 4277.39 -27.18 194.90 250.57 54.29 16 57 31 3677.4 -31.64 187.69
124.86 23 10 51 2906.09 -27.16 89.15 250.55 54.28 23 59 17 2306.1 -31.63 81.95
55.14 15 46 13 4277.39 -27.18 194.90 250.57 54.29 16 57 31 3677.4 -31.64 187.69
124.86 23 10 51 2906.09 -27.16 89.15 250.55 54.28 23 59 17 2306.1 -31.63 81.95

DIFFERENTIAL CORRECTIONS

TDE 1.2688 TRA-1.8014 TC3-2.9440 BAU .9943
RDE .3917 RRA -.0595 RC3 -.3070 FAU .04633
FDE .7779 FRA -.3533 FC3-1.5964 BSP 13637
BDE 1.3279 BRA 1.8024 BC3 2.9599 FSP -534

MID-COURSE EXECUTION ACCURACY

SGT 4351.9 SGR 551.4 SG3 165.4
RRT .7610 RRF .8937 RTF .9131
SGB 4386.7 R23 .2992 R13 .9155
SG1 4372.2 SG2 356.1 THA 5.55

ORBIT DETERMINATION ACCURACY

ST 1685.9 SR 448.7 SS 547.8
CRT .8914 CRS -.9919 CST -.9408
LSA 1810.4 MSA 256.9 SSA 9.4
EL1 1733.4 EL2 197.8 ALF 13.53

LAUNCH DATE MAR 3 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 437.815
RL 148.31 LAL .00 LOL 162.24 VL 27.128 GAL -4.47 AZL 84.62 MCA 213.48 SMA 125.94 ECC .19351 INC 5.3778 V1 30.043
RP 108.52 LAP -2.96 LOP 15.61 VP 37.310 GAP 7.85 AZP 94.49 TAL 199.30 TAP 52.78 RCA 101.57 APO 150.31 V2 34.920
RC 153.416 GL 32.21 GP -35.15 ZAL 122.39 ZAP 140.64 ETS 304.06 ZAE 123.85 ETE 207.19 ZAC 129.94 ETC 194.58 CLP-161.01

PLANETOCENTRIC CONIC

C3 22.609 VHL 4.755 DLA 42.24 RAL 16.50 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 6.872 DPA -21.66 RAP 46.53 ECC 1.3721
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
57.25 16 8 48 4228.42 -27.34 190.67 251.80 56.46 17 19 17 3628.4 -31.54 183.27
122.75 23 16 16 2903.37 -27.33 89.04 251.79 56.45 24 4 39 2303.4 -31.53 81.64
57.25 16 8 48 4228.42 -27.34 190.67 251.80 56.46 17 19 17 3628.4 -31.54 183.27
122.75 23 16 16 2903.37 -27.33 89.04 251.79 56.45 24 4 39 2303.4 -31.53 81.64
57.25 16 8 48 4228.42 -27.34 190.67 251.80 56.46 17 19 17 3628.4 -31.54 183.27
122.75 23 16 16 2903.37 -27.33 89.04 251.79 56.45 24 4 39 2303.4 -31.53 81.64

DIFFERENTIAL CORRECTIONS

TDE 1.2099 TRA-1.6692 TC3-3.3692 BAU 1.0228
RDE .3642 RRA -.0492 RC3 -.3148 FAU .04703
FDE .7284 FRA -.2754 FC3-1.8007 BSP 13998
BDE 1.2636 BRA 1.6699 BC3 3.3839 FSP -554

MID-COURSE EXECUTION ACCURACY

SGT 4446.5 SGR 537.2 SG3 170.7
RRT .7604 RRF .8797 RTF .9088
SGB 4478.9 R23 .2839 R13 .9108
SG1 4465.4 SG2 347.4 THA 5.28

ORBIT DETERMINATION ACCURACY

ST 1673.1 SR 439.6 SS 528.1
CRT .8977 CRS -.9946 CST -.9369
LSA 1791.2 MSA 250.0 SSA 11.0
EL1 1719.5 EL2 188.4 ALF 13.44

LAUNCH DATE MAR 3 1969

FLIGHT TIME 150.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 443.613

RL 148.31 LAL .00 LOL 162.24 VL 27.069 GAL -4.13 AZL 85.19 MCA 216.65 SMA 125.56 ECC .19448 INC 4.8065 V1 30.043
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.279 GAP 8.07 AZP 93.86 TAL 197.59 TAP 54.24 RCA 101.14 APO 149.98 V2 34.932
 RC 155.612 GL 29.89 GP -32.46 ZAL 121.60 ZAP 143.25 ETS 304.76 ZAE 125.09 ETE 205.63 ZAC 132.46 ETC 193.98 CLP-161.74

PLANETOCENTRIC CONIC

C3 20.607 VHL 4.540 DLA 40.95 RAL 20.02 RAD 6567.8 VEL 11.916 PTH 2.12 VHP 6.802 DPA -18.39 RAP 47.43 ECC 1.3391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.09 16 30 48 4184.22 -27.41 186.88 253.34 58.30 17 40 33 3584.2 -31.38 179.33
 120.91 23 22 25 2902.85 -27.40 89.04 253.33 58.29 24 10 47 2302.9 -31.37 81.49
 59.09 16 30 48 4184.22 -27.41 186.88 253.34 58.30 17 40 33 3584.2 -31.38 179.33
 120.91 23 22 25 2902.85 -27.40 89.04 253.33 58.29 24 10 47 2302.9 -31.37 81.49
 59.09 16 30 48 4184.22 -27.41 186.88 253.34 58.30 17 40 33 3584.2 -31.38 179.33
 120.91 23 22 25 2902.85 -27.40 89.04 253.33 58.29 24 10 47 2302.9 -31.37 81.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1657 TRA-1.5323 TC3-3.7897 BAU 1.0477 SGT 4534.3 SGR 524.2 SG3 174.0 ST 1663.0 SR 434.1 SS 509.1
 RDE .3435 RRA -.0388 RC3 -.3167 FAU .04700 RRT .7543 RRF .8608 RTF .9048 CRT .9056 CRS -.9968 CST -.9332
 FDE .6807 FRA -.1944 FC3-1.9747 BSP 14287 SGB 4564.5 R23 .2655 R13 .9066 LSA 1776.0 MSA 242.9 SSA 12.6
 BDE 1.2153 BRA 1.5328 BC3 3.8029 FSP -565 SG1 4551.6 SG2 342.9 THA 5.01 EL1 1709.4 EL2 179.1 ALF 13.45

LAUNCH DATE MAR 3 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 449.403

RL 148.31 LAL .00 LOL 162.24 VL 27.012 GAL -3.77 AZL 85.69 MCA 219.82 SMA 125.19 ECC .19561 INC 4.3142 V1 30.043
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.249 GAP 8.28 AZP 93.32 TAL 195.87 TAP 55.69 RCA 100.70 APO 149.68 V2 34.945
 RC 157.792 GL 27.73 GP -30.11 ZAL 120.42 ZAP 145.60 ETS 305.32 ZAE 126.10 ETE 204.16 ZAC 134.91 ETC 193.40 CLP-162.52

PLANETOCENTRIC CONIC

C3 18.982 VHL 4.357 DLA 39.84 RAL 23.60 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 6.774 DPA -15.45 RAP 48.52 ECC 1.3124
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.72 16 52 27 4144.08 -27.41 183.46 255.18 59.89 18 1 31 3544.1 -31.19 175.79
 119.28 23 29 20 2903.96 -27.40 89.14 255.17 59.87 24 17 44 2304.0 -31.18 81.47
 60.72 16 52 27 4144.08 -27.41 183.46 255.18 59.89 18 1 31 3544.1 -31.19 175.79
 119.28 23 29 20 2903.96 -27.40 89.14 255.17 59.87 24 17 44 2304.0 -31.18 81.47
 60.72 16 52 27 4144.08 -27.41 183.46 255.18 59.89 18 1 31 3544.1 -31.19 175.79
 119.28 23 29 20 2903.96 -27.40 89.14 255.17 59.87 24 17 44 2304.0 -31.18 81.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1299 TRA-1.3924 TC3-4.2093 BAU 1.0712 SGT 4620.3 SGR 513.8 SG3 176.1 ST 1652.9 SR 431.1 SS 489.7
 RDE .3276 RRA -.0293 RC3 -.3161 FAU .04653 RRT .7456 RRF .8386 RTF .9017 CRT .9147 CRS -.9982 CST -.9297
 FDE .6333 FRA -.1148 FC3-2.1222 BSP 14581 SGB 4648.8 R23 .2440 R13 .9032 LSA 1761.3 MSA 235.0 SSA 14.5
 BDE 1.1765 BRA 1.3927 BC3 4.2212 FSP -571 SG1 4636.2 SG2 341.2 THA 4.77 EL1 1699.7 EL2 169.4 ALF 13.56

LAUNCH DATE MAR 3 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 455.184

RL 148.31 LAL .00 LOL 162.24 VL 26.955 GAL -3.40 AZL 86.12 MCA 223.00 SMA 124.83 ECC .19690 INC 3.8829 V1 30.043
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.220 GAP 8.50 AZP 92.84 TAL 194.13 TAP 57.13 RCA 100.25 APO 149.41 V2 34.957
 RC 159.953 GL 25.71 GP -28.05 ZAL 118.89 ZAP 147.71 ETS 305.72 ZAE 126.92 ETE 202.81 ZAC 137.32 ETC 192.85 CLP-163.32

PLANETOCENTRIC CONIC

C3 17.644 VHL 4.200 DLA 38.87 RAL 27.27 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 6.776 DPA -12.78 RAP 49.77 ECC 1.2904
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.18 17 13 56 4107.40 -27.37 180.36 257.31 61.26 18 22 24 3507.4 -30.98 172.60
 117.82 23 37 5 2906.44 -27.36 89.32 257.30 61.25 24 25 32 2306.4 -30.97 81.56
 62.18 17 13 56 4107.40 -27.37 180.36 257.31 61.26 18 22 24 3507.4 -30.98 172.60
 117.82 23 37 5 2906.44 -27.36 89.32 257.30 61.25 24 25 32 2306.4 -30.97 81.56
 62.18 17 13 56 4107.40 -27.37 180.36 257.31 61.26 18 22 24 3507.4 -30.98 172.60
 117.82 23 37 5 2906.44 -27.36 89.32 257.30 61.25 24 25 32 2306.4 -30.97 81.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.1032 TRA-1.2449 TC3-4.6185 BAU 1.0919 SGT 4698.4 SGR 506.0 SG3 176.7 ST 1645.0 SR 431.3 SS 471.9
 RDE .3161 RRA -.0198 RC3 -.3126 FAU .04559 RRT .7334 RRF .8139 RTF .8988 CRT .9253 CRS -.9987 CST -.9263
 FDE .5893 FRA -.0351 FC3-2.2369 BSP 14798 SGB 4725.6 R23 .2225 R13 .9001 LSA 1750.2 MSA 226.6 SSA 16.5
 BDE 1.1476 BRA 1.2451 BC3 4.6290 FSP -569 SG1 4713.1 SG2 342.9 THA 4.54 EL1 1693.2 EL2 159.0 ALF 13.76

LAUNCH DATE MAR 3 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 460.957

RL 148.31 LAL .00 LOL 162.24 VL 26.898 GAL -3.02 AZL 86.50 MCA 226.18 SMA 124.47 ECC .19836 INC 3.4999 V1 30.043
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.191 GAP 8.72 AZP 92.42 TAL 192.39 TAP 58.57 RCA 99.78 APO 149.16 V2 34.970
 RC 162.097 GL 23.78 GP -26.24 ZAL 117.04 ZAP 149.63 ETS 305.98 ZAE 127.61 ETE 201.57 ZAC 139.71 ETC 192.32 CLP-164.14

PLANETOCENTRIC CONIC

C3 16.535 VHL 4.066 DLA 38.00 RAL 31.04 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 6.804 DPA -10.35 RAP 51.16 ECC 1.2721
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.52 17 35 31 4073.58 -27.29 177.52 259.73 62.46 18 43 24 3473.6 -30.75 169.68
 116.48 23 45 36 2910.32 -27.28 89.60 259.73 62.45 24 34 6 2310.3 -30.74 81.76
 63.52 17 35 31 4073.58 -27.29 177.52 259.73 62.46 18 43 24 3473.6 -30.75 169.68
 116.48 23 45 36 2910.32 -27.28 89.60 259.73 62.45 24 34 6 2310.3 -30.74 81.76
 63.52 17 35 31 4073.58 -27.29 177.52 259.73 62.46 18 43 24 3473.6 -30.75 169.68
 116.48 23 45 36 2910.32 -27.28 89.60 259.73 62.45 24 34 6 2310.3 -30.74 81.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0772 TRA-1.0947 TC3-5.0253 BAU 1.1130 SGT 4779.0 SGR 500.7 SG3 176.7 ST 1632.1 SR 432.3 SS 451.8
 RDE .3067 RRA -.0114 RC3 -.3099 FAU .04449 RRT .7213 RRF .7883 RTF .8972 CRT .9362 CRS -.9975 CST -.9227
 FDE .5437 FRA -.0395 FC3-2.3296 BSP 15078 SGB 4805.1 R23 .1989 R13 .8983 LSA 1734.2 MSA 216.9 SSA 18.7
 BDE 1.1200 BRA 1.0947 BC3 5.0349 FSP -570 SG1 4792.7 SG2 345.8 THA 4.34 EL1 1681.9 EL2 147.5 ALF 14.04

LAUNCH DATE MAR 3 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 466.719

RL 148.31 LAL .00 LOL 162.24 VL 26.842 GAL -2.63 AZL 86.84 MCA 229.37 SMA 124.12 ECC .20000 INC 3.1554 V1 30.043
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.163 GAP 8.95 AZP 92.06 TAL 190.64 TAP 60.01 RCA 99.30 APO 148.95 V2 34.983
 RC 164.221 GL 21.93 GP -24.63 ZAL 114.88 ZAP 151.38 ETS 306.09 ZAE 128.18 ETE 200.45 ZAC 142.07 ETC 191.83 CLP-164.96

PLANETOCENTRIC CONIC

C3 15.617 VHL 3.952 DLA 37.22 RAL 34.93 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 6.852 DPA -8.12 RAP 52.68 ECC 1.2570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.77 17 57 25 4042.04 -27.17 174.87 262.44 63.52 19 4 47 3442.0 -30.49 166.97
 115.23 23 54 47 2915.87 -27.16 89.98 262.43 63.51 24 43 23 2315.9 -30.48 82.09
 64.77 17 57 25 4042.04 -27.17 174.87 262.44 63.52 19 4 47 3442.0 -30.49 166.97
 115.23 23 54 47 2915.87 -27.16 89.98 262.43 63.51 24 43 23 2315.9 -30.48 82.09
 64.77 17 57 25 4042.04 -27.17 174.87 262.44 63.52 19 4 47 3442.0 -30.49 166.97
 115.23 23 54 47 2915.87 -27.16 89.98 262.43 63.51 24 43 23 2315.9 -30.48 82.09

DIFFERENTIAL CORRECTIONS

TDE 1.0523 TRA -.9385 TC3-5.4204 BAU 1.1335
 RDE .2996 RRA -.0032 RC3 -.3073 FAU .04322
 FDE .4988 FRA .1107 FC3-2.3960 BSP 15369
 BDE 1.0941 BRA .9386 BC3 5.4291 FSP -569

MID-COURSE EXECUTION ACCURACY

SGT 4858.1 SGR 497.7 SG3 176.0
 RRT .7085 RRF .7623 RTF .8965
 SGB 4883.5 R23 .1755 R13 .8974
 SG1 4870.9 SG2 350.3 THA 4.17

ORBIT DETERMINATION ACCURACY

ST 1614.6 SR 434.5 SS 431.0
 CRT .9474 CRS -.9943 CST -.9186
 LSA 1714.2 MSA 206.3 SSA 21.2
 EL1 1666.6 EL2 134.7 ALF 14.40

LAUNCH DATE MAR 3 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 472.470

RL 148.31 LAL .00 LOL 162.24 VL 26.786 GAL -2.23 AZL 87.16 MCA 232.56 SMA 123.78 ECC .20183 INC 2.8422 V1 30.043
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.135 GAP 9.18 AZP 91.73 TAL 188.88 TAP 61.44 RCA 98.79 APO 148.76 V2 34.996
 RC 166.326 GL 20.14 GP -23.21 ZAL 112.45 ZAP 152.99 ETS 306.06 ZAE 128.67 ETE 199.43 ZAC 144.43 ETC 191.36 CLP-165.78

PLANETOCENTRIC CONIC

C3 14.864 VHL 3.855 DLA 36.48 RAL 38.96 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 6.917 DPA -6.09 RAP 54.30 ECC 1.2446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.98 18 19 52 4012.14 -26.99 172.35 265.43 64.48 19 26 44 3412.1 -30.19 164.42
 114.02 0 8 24 2923.57 -26.98 90.51 265.42 64.47 0 57 8 2323.6 -30.18 82.57
 65.98 18 19 52 4012.14 -26.99 172.35 265.43 64.48 19 26 44 3412.1 -30.19 164.42
 114.02 0 8 24 2923.57 -26.98 90.51 265.42 64.47 0 57 8 2323.6 -30.18 82.57
 65.98 18 19 52 4012.14 -26.99 172.35 265.43 64.48 19 26 44 3412.1 -30.19 164.42
 114.02 0 8 24 2923.57 -26.98 90.51 265.42 64.47 0 57 8 2323.6 -30.18 82.57

DIFFERENTIAL CORRECTIONS

TDE 1.0273 TRA -.7744 TC3-5.7927 BAU 1.1527
 RDE .2944 RRA .0055 RC3 -.3045 FAU .04178
 FDE .4549 FRA .1799 FC3-2.4337 BSP 15627
 BDE 1.0686 BRA .7744 BC3 5.8007 FSP -564

MID-COURSE EXECUTION ACCURACY

SGT 4932.4 SGR 496.6 SG3 174.7
 RRT .6949 RRF .7366 RTF .8961
 SGB 4957.4 R23 .1538 R13 .8969
 SG1 4944.6 SG2 356.3 THA 4.02

ORBIT DETERMINATION ACCURACY

ST 1591.5 SR 437.6 SS 409.8
 CRT .9586 CRS -.9881 CST -.9134
 LSA 1689.2 MSA 195.4 SSA 24.1
 EL1 1646.2 EL2 120.5 ALF 14.85

LAUNCH DATE MAR 3 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 478.208

RL 148.31 LAL .00 LOL 162.24 VL 26.731 GAL -1.81 AZL 87.45 MCA 235.75 SMA 123.44 ECC .20386 INC 2.5543 V1 30.043
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.108 GAP 9.42 AZP 91.44 TAL 187.11 TAP 62.87 RCA 98.27 APO 148.60 V2 35.010
 RC 168.410 GL 18.38 GP -21.94 ZAL 109.75 ZAP 154.46 ETS 305.87 ZAE 129.09 ETE 198.51 ZAC 146.78 ETC 190.91 CLP-166.60

PLANETOCENTRIC CONIC

C3 14.259 VHL 3.776 DLA 35.75 RAL 43.13 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 6.997 DPA -4.21 RAP 56.01 ECC 1.2347
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.20 18 43 7 3983.15 -26.76 169.91 268.69 65.35 19 49 30 3383.1 -29.85 161.94
 112.80 0 18 22 2934.13 -26.75 91.23 268.68 65.34 1 7 16 2334.1 -29.84 83.26
 67.20 18 43 7 3983.15 -26.76 169.91 268.69 65.35 19 49 30 3383.1 -29.85 161.94
 112.80 0 18 22 2934.13 -26.75 91.23 268.68 65.34 1 7 16 2334.1 -29.84 83.26
 67.20 18 43 7 3983.15 -26.76 169.91 268.69 65.35 19 49 30 3383.1 -29.85 161.94
 112.80 0 18 22 2934.13 -26.75 91.23 268.68 65.34 1 7 16 2334.1 -29.84 83.26

DIFFERENTIAL CORRECTIONS

TDE .9980 TRA -.6035 TC3-6.1380 BAU 1.1716
 RDE .2902 RRA .0143 RC3 -.3023 FAU .04029
 FDE .4098 FRA .2454 FC3-2.4463 BSP 15906
 BDE 1.0393 BRA .6036 BC3 6.1455 FSP -561

MID-COURSE EXECUTION ACCURACY

SGT 5005.5 SGR 496.7 SG3 173.0
 RRT .6817 RRF .7116 RTF .8967
 SGB 5030.1 R23 .1327 R13 .8974
 SG1 5017.0 SG2 362.5 THA 3.89

ORBIT DETERMINATION ACCURACY

ST 1557.9 SR 440.4 SS 386.5
 CRT .9692 CRS -.9777 CST -.9065
 LSA 1654.0 MSA 183.8 SSA 27.4
 EL1 1615.5 EL2 104.6 ALF 15.39

LAUNCH DATE MAR 3 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 483.934

RL 148.31 LAL .00 LOL 162.24 VL 26.677 GAL -1.38 AZL 87.71 MCA 238.95 SMA 123.11 ECC .20609 INC 2.2873 V1 30.043
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.081 GAP 9.67 AZP 91.18 TAL 185.34 TAP 64.29 RCA 97.73 APO 148.48 V2 35.023
 RC 170.474 GL 16.65 GP -20.81 ZAL 106.82 ZAP 155.82 ETS 305.53 ZAE 129.45 ETE 197.67 ZAC 149.13 ETC 190.48 CLP-167.41

PLANETOCENTRIC CONIC

C3 13.794 VHL 3.714 DLA 35.02 RAL 47.42 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 7.090 DPA -2.48 RAP 57.82 ECC 1.2270
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.48 19 7 27 3954.19 -26.45 167.45 272.22 66.16 20 13 21 3354.2 -29.43 159.47
 111.52 0 28 17 2948.48 -26.43 92.21 272.21 66.14 1 17 25 2348.5 -29.42 84.22
 68.48 19 7 27 3954.19 -26.45 167.45 272.22 66.16 20 13 21 3354.2 -29.43 159.47
 111.52 0 28 17 2948.48 -26.43 92.21 272.21 66.14 1 17 25 2348.5 -29.42 84.22
 68.48 19 7 27 3954.19 -26.45 167.45 272.22 66.16 20 13 21 3354.2 -29.43 159.47
 111.52 0 28 17 2948.48 -26.43 92.21 272.21 66.14 1 17 25 2348.5 -29.42 84.22

DIFFERENTIAL CORRECTIONS

TDE .9676 TRA -.4203 TC3-6.4304 BAU 1.1871
 RDE .2877 RRA .0242 RC3 -.2978 FAU .03856
 FDE .3677 FRA .3110 FC3-2.4203 BSP 16069
 BDE 1.0095 BRA .4210 BC3 6.4373 FSP -550

MID-COURSE EXECUTION ACCURACY

SGT 5066.6 SGR 498.0 SG3 170.6
 RRT .6670 RRF .6878 RTF .8968
 SGB 5091.0 R23 .1160 R13 .8974
 SG1 5077.5 SG2 370.2 THA 3.77

ORBIT DETERMINATION ACCURACY

ST 1518.3 SR 444.1 SS 365.3
 CRT .9792 CRS -.9612 CST -.8977
 LSA 1614.0 MSA 172.9 SSA 31.2
 EL1 1579.6 EL2 86.7 ALF 16.03

LAUNCH DATE MAR 3 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 489.645

RL 148.31 LAL .00 LOL 162.24 VL 26.623 GAL -.94 AZL 87.96 MCA 242.15 SMA 122.78 ECC .20855 INC 2.0375 V1 30.043
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.055 GAP 9.93 AZP 90.95 TAL 183.57 TAP 65.72 RCA 97.17 APO 148.38 V2 35.036
 RC 172.518 GL 14.95 GP -19.80 ZAL 103.67 ZAP 157.08 ETS 305.04 ZAE 129.77 ETE 196.92 ZAC 151.49 ETC 190.05 CLP-168.21

PLANETOCENTRIC CONIC

C3 13.462 VHL 3.669 DLA 34.26 RAL 51.83 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 7.196 DPA -.88 RAP 59.70 ECC 1.2216
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.86 19 33 9 3924.31 -26.05 164.91 275.99 66.92 20 38 33 3324.3 -28.94 156.92
 110.14 0 37 45 2967.73 -26.03 93.53 275.99 66.90 1 27 13 2367.7 -28.93 85.54
 69.86 19 33 9 3924.31 -26.05 164.91 275.99 66.92 20 38 33 3324.3 -28.94 156.92
 110.14 0 37 45 2967.73 -26.03 93.53 275.99 66.90 1 27 13 2367.7 -28.93 85.54
 69.86 19 33 9 3924.31 -26.05 164.91 275.99 66.92 20 38 33 3324.3 -28.94 156.92
 110.14 0 37 45 2967.73 -26.03 93.53 275.99 66.90 1 27 13 2367.7 -28.93 85.54

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .9262 TRA -.2331 TC3-6.6842 BAU 1.2042 SGT 5132.7 SGR 499.6 SG3 168.0 ST 1459.7 SR 446.2 SS 340.8
 RDE .2854 RRA .0342 RC3 -.2947 FAU .03694 RRT .6540 RRF .6654 RTF .8986 CRT .9873 CRS -.9357 CST -.8851
 FDE .3225 FRA .3707 FC3-2.3755 BSP 16348 SGB 5156.9 R23 .0987 R13 .8990 LSA 1555.1 MSA 162.8 SSA 35.6
 BDE .9691 BRA .2356 BC3 6.6907 FSP -546 SG1 5143.1 SG2 377.2 THA 3.66 EL1 1524.9 EL2 67.9 ALF 16.83

LAUNCH DATE MAR 3 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 495.339

RL 148.31 LAL .00 LOL 162.24 VL 26.570 GAL -.48 AZL 88.20 MCA 245.35 SMA 122.46 ECC .21125 INC 1.8019 V1 30.043
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.030 GAP 10.20 AZP 90.75 TAL 181.79 TAP 67.14 RCA 96.59 APO 148.33 V2 35.050
 RC 174.540 GL 13.26 GP -18.89 ZAL 100.34 ZAP 158.25 ETS 304.38 ZAE 130.05 ETE 196.24 ZAC 153.85 ETC 189.62 CLP-169.01

PLANETOCENTRIC CONIC

C3 13.263 VHL 3.642 DLA 33.45 RAL 56.33 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 7.313 DPA .61 RAP 61.65 ECC 1.2183
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.41 20 0 32 3892.22 -25.55 162.18 279.99 67.64 21 5 24 3292.2 -28.35 154.19
 108.59 0 46 16 2993.36 -25.53 95.29 279.99 67.63 1 36 10 2393.4 -28.34 87.30
 71.41 20 0 32 3892.22 -25.55 162.18 279.99 67.64 21 5 24 3292.2 -28.35 154.19
 108.59 0 46 16 2993.36 -25.53 95.29 279.99 67.63 1 36 10 2393.4 -28.34 87.30
 110.00 1 48 36 2802.44 -29.94 82.26 281.78 72.67 2 35 18 2202.4 -32.01 73.66
 110.00 0 1 19 3131.13 -21.30 103.84 277.85 62.61 0 53 30 2531.1 -24.79 96.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8780 TRA -.0347 TC3-6.8725 BAU 1.2197 SGT 5193.2 SGR 502.0 SG3 165.3 ST 1389.6 SR 447.9 SS 318.2
 RDE .2842 RRA .0452 RC3 -.2905 FAU .03526 RRT .6411 RRF .6452 RTF .9003 CRT .9930 CRS -.8974 CST -.8688
 FDE .2784 FRA .4298 FC3-2.3018 BSP 16537 SGB 5217.4 R23 .0846 R13 .9007 LSA 1485.6 MSA 156.0 SSA 40.0
 BDE .9229 BRA .0570 BC3 6.8786 FSP -536 SG1 5203.2 SG2 384.5 THA 3.57 EL1 1459.2 EL2 50.2 ALF 17.77

LAUNCH DATE MAR 3 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 501.006

RL 148.31 LAL .00 LOL 162.24 VL 26.517 GAL -.01 AZL 88.42 MCA 248.55 SMA 122.14 ECC .21422 INC 1.5779 V1 30.043
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.004 GAP 10.48 AZP 90.58 TAL 180.02 TAP 68.58 RCA 95.98 APO 148.31 V2 35.063
 RC 176.542 GL 11.59 GP -18.07 ZAL 96.86 ZAP 159.34 ETS 303.55 ZAE 130.31 ETE 195.63 ZAC 156.21 ETC 189.16 CLP-169.81

PLANETOCENTRIC CONIC

C3 13.201 VHL 3.633 DLA 32.57 RAL 60.87 RAD 6567.5 VEL 11.601 PTH 2.03 VHP 7.443 DPA 1.98 RAP 63.65 ECC 1.2173
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.20 20 30 5 3855.92 -24.93 159.11 284.18 68.34 21 34 21 3255.9 -27.65 151.14
 106.80 0 52 58 3027.64 -24.92 97.65 284.18 68.33 1 43 26 2427.6 -27.64 89.68
 73.20 20 30 5 3855.92 -24.93 159.11 284.18 68.34 21 34 21 3255.9 -27.65 151.14
 106.80 0 52 58 3027.64 -24.92 97.65 284.18 68.33 1 43 26 2427.6 -27.64 89.68
 110.00 2 32 22 2721.22 -31.44 76.41 286.57 75.84 3 17 43 2121.2 -33.06 67.56
 110.00 23 49 52 3210.34 -18.74 108.57 281.02 60.88 24 43 22 2610.3 -22.48 101.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .5722 TRA .0397 TC3-7.6131 BAU 1.3455 SGT 5605.9 SGR 486.6 SG3 186.3 ST 917.7 SR 384.4 SS 152.9
 RDE .2432 RRA .0406 RC3 -.3986 FAU .04239 RRT .7164 RRF .6279 RTF .9324 CRT .9868 CRS -.2423 CST -.2467
 FDE .0272 FRA .4024 FC3-2.7801 BSP 21268 SGB 5626.9 R23 -.0610 R13 .9322 LSA 994.0 MSA 148.1 SSA 57.6
 BDE .6218 BRA .0568 BC3 7.6235 FSP -813 SG1 5616.7 SG2 338.9 THA 3.57 EL1 993.3 EL2 57.6 ALF 22.53

LAUNCH DATE MAR 3 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 506.671

RL 148.31 LAL .00 LOL 162.24 VL 26.465 GAL .49 AZL 88.64 MCA 251.76 SMA 121.84 ECC .21744 INC 1.3633 V1 30.043
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.980 GAP 10.77 AZP 90.43 TAL 178.24 TAP 70.00 RCA 95.34 APO 148.33 V2 35.076
 RC 178.523 GL 9.95 GP -17.33 ZAL 93.22 ZAP 160.35 ETS 302.56 ZAE 130.54 ETE 195.07 ZAC 158.59 ETC 188.68 CLP-170.59

PLANETOCENTRIC CONIC

C3 13.275 VHL 3.643 DLA 31.62 RAL 65.48 RAD 6567.5 VEL 11.604 PTH 2.03 VHP 7.582 DPA 3.25 RAP 65.73 ECC 1.2185
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.30 21 2 33 3813.18 -24.22 155.55 288.58 69.02 22 6 6 3213.2 -26.85 147.59
 104.70 0 57 16 3072.77 -24.20 100.78 288.57 69.00 1 48 29 2472.8 -26.84 92.83
 75.30 21 2 33 3813.18 -24.22 155.55 288.58 69.02 22 6 6 3213.2 -26.85 147.59
 104.70 0 57 16 3072.77 -24.20 100.78 288.57 69.00 1 48 29 2472.8 -26.84 92.83
 110.00 3 11 1 2657.68 -32.40 71.70 291.29 78.46 3 55 19 2057.7 -33.65 62.69
 110.00 23 47 59 3276.27 -16.52 112.38 284.64 59.64 24 42 35 2676.3 -20.42 105.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7482 TRA .3948 TC3-7.0149 BAU 1.2459 SGT 5295.7 SGR 505.3 SG3 158.7 ST 1206.5 SR 447.0 SS 277.9
 RDE .2832 RRA .0701 RC3 -.2761 FAU .03175 RRT .6151 RRF .6083 RTF .9037 CRT .9889 CRS -.7552 CST -.8199
 FDE .1874 FRA .5448 FC3-2.0707 BSP 16893 SGB 5319.8 R23 .0625 R13 .9040 LSA 1305.1 MSA 165.1 SSA 44.9
 BDE .7999 BRA .4010 BC3 7.0203 FSP -515 SG1 5304.9 SG2 397.8 THA 3.38 EL1 1285.1 EL2 62.5 ALF 20.17

LAUNCH DATE MAR 3 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 512.304

RL 148.31 LAL .00 LOL 162.24 VL 26.414 GAL 1.00 AZL 88.84 HCA 254.97 SMA 121.53 ECC .22097 INC 1.1564 V1 30.043
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.955 GAP 11.07 AZP 90.30 TAL 176.46 TAP 71.43 RCA 94.68 APO 148.39 V2 35.089
 RC 180.483 GL 8.34 GP -16.66 ZAL 89.51 ZAP 161.29 ETS 301.38 ZAE 130.75 ETE 194.57 ZAC 160.97 ETC 188.14 CLP-171.37

PLANETOCENTRIC CONIC

C3 13.498 VHL 3.674 DLA 30.60 RAL 70.06 RAD 6567.5 VEL 11.614 PTH 2.04 VHP 7.734 DPA 4.42 RAP 67.85 ECC 1.2221
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.89 21 39 13 3758.74 -23.38 151.11 293.10 69.68 22 41 52 3158.7 -25.93 143.18
 102.11 0 57 6 3134.47 -23.37 105.09 293.09 69.66 1 49 21 2534.5 -25.92 97.16
 77.89 21 39 13 3758.74 -23.38 151.11 293.10 69.68 22 41 52 3158.7 -25.93 143.18
 102.11 0 57 6 3134.47 -23.37 105.09 293.09 69.66 1 49 21 2534.5 -25.92 97.16
 110.00 3 47 14 2602.71 -33.08 67.56 295.99 80.83 4 30 37 2002.7 -33.99 58.44
 110.00 23 48 16 3338.50 -14.34 115.89 288.48 58.63 24 43 54 2738.5 -18.39 109.12

DIFFERENTIAL CORRECTIONS

TDE .6635 TRA .6220 TC3-6.9700 BAU 1.2587
 RDE .2832 RRA .0833 RC3 -.2673 FAU .03008
 FDE .1405 FRA .5976 FC3-1.9295 BSP 17108
 BDE .7214 BRA .6275 BC3 6.9751 FSP -508

MID-COURSE EXECUTION ACCURACY

SGT 5345.1 SGR 506.4 SG3 155.3
 RRT .6033 RRF .5918 RTF .9064
 SGB 5369.1 R23 .0524 R13 .9067
 SG1 5353.9 SG2 403.2 THA 3.29

ORBIT DETERMINATION ACCURACY

ST 1099.3 SR 444.0 SS 263.4
 CRT .9694 CRS -.6385 CST -.7918
 LSA 1199.1 MSA 188.2 SSA 43.3
 EL1 1181.3 EL2 101.4 ALF 21.55

LAUNCH DATE MAR 3 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 517.912

RL 148.31 LAL .00 LOL 162.24 VL 26.364 GAL 1.54 AZL 89.04 HCA 258.18 SMA 121.24 ECC .22482 INC .9555 V1 30.043
 RP 107.96 LAP -.94 LOP 60.42 VP 36.931 GAP 11.39 AZP 90.20 TAL 174.69 TAP 72.87 RCA 93.98 APO 148.49 V2 35.102
 RC 182.422 GL 6.78 GP -16.05 ZAL 85.75 ZAP 162.18 ETS 300.01 ZAE 130.95 ETE 194.11 ZAC 163.35 ETC 187.50 CLP-172.15

PLANETOCENTRIC CONIC

C3 13.880 VHL 3.726 DLA 29.50 RAL 74.58 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 7.898 DPA 5.51 RAP 70.02 ECC 1.2284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.37 22 23 30 3681.13 -22.44 144.96 297.73 70.33 23 24 51 3081.1 -24.91 137.06
 98.63 0 48 53 3224.28 -22.42 111.40 297.72 70.31 1 42 38 2624.3 -24.90 103.51
 100.00 1 40 12 3060.05 -25.48 100.30 298.80 73.81 2 31 12 2460.0 -27.45 92.06
 100.00 0 18 48 3320.59 -19.45 117.29 296.47 66.84 1 14 9 2720.6 -22.42 109.75
 110.00 4 21 45 2553.88 -33.54 63.82 300.70 83.00 5 4 18 1953.9 -34.15 54.63
 110.00 23 49 49 3399.52 -12.15 119.27 292.50 57.80 24 46 29 2799.5 -16.32 112.64

DIFFERENTIAL CORRECTIONS

TDE .5676 TRA .8611 TC3-6.8389 BAU 1.2699
 RDE .2839 RRA .0973 RC3 -.2562 FAU .02842
 FDE .0943 FRA .6495 FC3-1.7727 BSP 17272
 BDE .6347 BRA .8666 BC3 6.8437 FSP -497

MID-COURSE EXECUTION ACCURACY

SGT 5389.3 SGR 506.7 SG3 151.7
 RRT .5918 RRF .5766 RTF .9092
 SGB 5413.1 R23 .0439 R13 .9094
 SG1 5397.7 SG2 407.8 THA 3.20

ORBIT DETERMINATION ACCURACY

ST 996.9 SR 439.7 SS 256.4
 CRT .9253 CRS -.4921 CST -.7738
 LSA 1095.4 MSA 226.4 SSA 39.6
 EL1 1078.6 EL2 154.1 ALF 22.69

LAUNCH DATE MAR 3 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 523.491

RL 148.31 LAL .00 LOL 162.24 VL 26.314 GAL 2.09 AZL 89.24 HCA 261.39 SMA 120.95 ECC .22901 INC .7591 V1 30.043
 RP 107.92 LAP -.75 LOP 63.64 VP 36.908 GAP 11.73 AZP 90.11 TAL 172.92 TAP 74.31 RCA 93.25 APO 148.64 V2 35.114
 RC 184.340 GL 5.26 GP -15.50 ZAL 81.98 ZAP 163.00 ETS 298.43 ZAE 131.13 ETE 193.69 ZAC 165.73 ETC 186.72 CLP-172.92

PLANETOCENTRIC CONIC

C3 14.434 VHL 3.799 DLA 28.34 RAL 79.00 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 8.075 DPA 6.51 RAP 72.24 ECC 1.2375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 88.93 23 42 59 3490.20 -21.40 130.53 302.43 70.97 24 41 9 2890.2 -23.80 122.68
 91.07 0 4 44 3432.46 -21.38 126.30 302.42 70.95 1 1 56 2832.5 -23.79 118.45
 100.00 2 38 2 2938.14 -27.51 91.82 304.31 77.83 3 27 0 2338.1 -28.91 83.30
 100.00 23 52 22 3459.76 -15.51 125.74 299.87 64.12 24 50 2 2859.8 -18.87 118.56
 110.00 4 54 46 2510.13 -33.86 60.44 305.42 84.97 5 36 36 1910.1 -34.18 51.21
 110.00 23 52 7 3460.53 -9.92 122.58 296.64 57.12 24 49 48 2860.5 -14.18 116.07

DIFFERENTIAL CORRECTIONS

TDE .4618 TRA 1.1151 TC3-6.6209 BAU 1.2785
 RDE .2854 RRA .1125 RC3 -.2426 FAU .02673
 FDE .0492 FRA .7022 FC3-1.6034 BSP 17368
 BDE .5429 BRA 1.1208 BC3 6.6254 FSP -485

MID-COURSE EXECUTION ACCURACY

SGT 5426.3 SGR 506.3 SG3 148.1
 RRT .5807 RRF .5628 RTF .9118
 SGB 5449.9 R23 .0372 R13 .9120
 SG1 5434.3 SG2 411.6 THA 3.12

ORBIT DETERMINATION ACCURACY

ST 914.6 SR 434.2 SS 258.3
 CRT .8402 CRS -.3295 CST -.7797
 LSA 1006.7 MSA 277.6 SSA 35.2
 EL1 988.7 EL2 217.8 ALF 22.93

LAUNCH DATE MAR 3 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 529.036

RL 148.31 LAL .00 LOL 162.24 VL 26.264 GAL 2.67 AZL 89.43 HCA 264.61 SMA 120.66 ECC .23358 INC .5659 V1 30.043
 RP 107.88 LAP -.56 LOP 66.85 VP 36.884 GAP 12.09 AZP 90.05 TAL 171.16 TAP 75.77 RCA 92.48 APO 148.85 V2 35.126
 RC 186.236 GL 3.81 GP -15.00 ZAL 78.24 ZAP 163.76 ETS 296.64 ZAE 131.29 ETE 193.31 ZAC 168.12 ETC 185.68 CLP-173.69

PLANETOCENTRIC CONIC

C3 15.177 VHL 3.896 DLA 27.12 RAL 83.30 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 8.266 DPA 7.43 RAP 74.50 ECC 1.2498
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 12 3236.63 -25.57 113.30 308.77 77.41 2 19 8 2636.6 -27.05 104.95
 90.00 22 56 48 3708.41 -15.13 143.84 305.07 65.78 23 58 37 3108.4 -18.28 136.58
 100.00 3 22 3 2859.90 -28.51 86.22 309.42 80.61 4 9 43 2259.9 -29.51 77.56
 100.00 23 42 37 3560.37 -12.44 131.63 303.73 62.60 24 41 58 2960.4 -16.01 124.67
 110.00 5 26 20 2471.04 -34.05 57.41 310.13 86.76 6 7 31 1871.0 -34.12 48.16
 110.00 23 54 51 3522.00 -7.63 125.87 300.87 56.58 24 53 33 2922.0 -11.97 119.46

DIFFERENTIAL CORRECTIONS

TDE .3408 TRA 1.3777 TC3-6.3396 BAU 1.2871
 RDE .2871 RRA .1279 RC3 -.2278 FAU .02512
 FDE .0033 FRA .7524 FC3-1.4330 BSP 17532
 BDE .4457 BRA 1.3837 BC3 6.3437 FSP -476

MID-COURSE EXECUTION ACCURACY

SGT 5461.9 SGR 504.5 SG3 144.4
 RRT .5696 RRF .5492 RTF .9146
 SGB 5485.2 R23 .0306 R13 .9148
 SG1 5469.5 SG2 414.1 THA 3.03

ORBIT DETERMINATION ACCURACY

ST 860.1 SR 427.1 SS 267.5
 CRT .6964 CRS -.1616 CST -.8137
 LSA 938.1 MSA 335.6 SSA 31.1
 EL1 916.1 EL2 287.7 ALF 21.28

LAUNCH DATE MAR 3 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 534.545

RL 148.31 LAL .00 LOL 162.24 VL 26.216 GAL 3.28 AZL 89.63 MCA 267.83 SMA 120.38 ECC .23856 INC .3745 V1 30.043
 RP 107.85 LAP -.37 LOP 70.07 VP 36.861 GAP 12.46 AZP 90.01 TAL 169.41 TAP 77.24 RCA 91.66 APO 149.10 V2 35.138
 RC 188.109 GL 2.44 GP -14.54 ZAL 74.56 ZAP 164.46 ETS 294.63 ZAE 131.45 ETE 192.96 ZAC 170.51 ETC 184.18 CLP-174.46

PLANETOCENTRIC CONIC

C3 16.129 VHL 4.016 DLA 25.87 RAL 87.44 RAD 6567.6 VEL 11.727 PTH 2.07 VHP 8.472 DPA 8.26 RAP 76.79 ECC 1.2654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 40 3146.69 -26.75 106.98 313.98 80.36 3 5 7 2546.7 -27.81 98.47
 90.00 22 42 20 3825.85 -11.74 150.80 308.89 64.04 23 46 6 3225.9 -15.13 143.77
 100.00 4 0 27 2799.20 -29.10 81.81 314.37 82.86 4 47 6 2199.2 -29.79 73.07
 100.00 23 37 14 3648.58 -9.62 136.67 307.79 61.56 24 38 3 3048.6 -13.35 129.86
 110.00 5 56 22 2436.51 -34.15 54.72 314.83 88.35 6 36 59 1836.5 -34.00 45.47
 110.00 0 1 44 3584.03 -5.29 129.15 305.15 56.18 1 1 28 2984.0 -9.70 122.83

DIFFERENTIAL CORRECTIONS

TDE .2089 TRA 1.6536 TC3-5.9999 BAU 1.2945
 RDE .2896 RRA .1439 RC3 -.2116 FAU .02357
 FDE -.0419 FRA .8023 FC3-1.2651 BSP 17688
 BDE .3571 BRA 1.6599 BC3 6.0036 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 5494.3 SGR 501.7 SG3 140.8
 RRT .5589 RRF .5363 RTF .9177
 SGB 5517.1 R23 .0247 R13 .9178
 SG1 5501.4 SG2 415.5 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 853.4 SR 418.9 SS 283.6
 CRT .4972 CRS -.0099 CST -.8672
 LSA 913.7 MSA 385.5 SSA 27.6
 EL1 883.5 EL2 351.1 ALF 16.37

LAUNCH DATE MAR 3 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 540.010

RL 148.31 LAL .00 LOL 162.24 VL 26.168 GAL 3.92 AZL 89.82 MCA 271.05 SMA 120.11 ECC .24398 INC .1836 V1 30.043
 RP 107.81 LAP -.18 LOP 73.29 VP 36.838 GAP 12.86 AZP 90.00 TAL 167.66 TAP 78.72 RCA 90.80 APO 149.41 V2 35.150
 RC 189.959 GL 1.15 GP -14.12 ZAL 70.98 ZAP 165.11 ETS 292.38 ZAE 131.58 ETE 192.63 ZAC 172.89 ETC 181.76 CLP-175.23

PLANETOCENTRIC CONIC

C3 17.315 VHL 4.161 DLA 24.59 RAL 91.39 RAD 6567.7 VEL 11.777 PTH 2.08 VHP 8.694 DPA 9.03 RAP 79.11 ECC 1.2850
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 52 19 3081.28 -27.41 102.31 318.97 82.61 3 43 40 2481.3 -28.15 93.72
 90.00 22 34 14 3923.82 -8.76 156.45 312.93 62.96 23 39 38 3323.8 -12.31 149.58
 100.00 4 35 7 2749.83 -29.47 78.18 319.23 84.74 5 20 57 2149.8 -29.89 69.40
 100.00 23 34 7 3730.51 -6.93 141.27 311.94 60.85 24 36 17 3130.5 -10.77 134.58
 110.00 6 24 50 2406.55 -34.18 52.38 319.50 89.73 7 4 57 1806.5 -33.84 43.15
 110.00 0 4 49 3646.56 -2.91 132.42 309.46 55.93 1 5 35 3046.6 -7.37 126.17

DIFFERENTIAL CORRECTIONS

TDE .0673 TRA 1.9436 TC3-5.6113 BAU 1.2997
 RDE .2929 RRA .1605 RC3 -.1939 FAU .02202
 FDE -.0855 FRA .8523 FC3-1.1009 BSP 17810
 BDE .3006 BRA 1.9502 BC3 5.6147 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 5520.7 SGR 497.8 SG3 137.1
 RRT .5480 RRF .5240 RTF .9206
 SGB 5543.1 R23 .0199 R13 .9206
 SG1 5527.4 SG2 415.9 THA 2.85

ORBIT DETERMINATION ACCURACY

ST 898.8 SR 409.9 SS 304.7
 CRT .2780 CRS .1149 CST -.9184
 LSA 948.3 MSA 410.7 SSA 24.7
 EL1 907.6 EL2 389.9 ALF 8.88

LAUNCH DATE MAR 3 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 545.428

RL 148.31 LAL .00 LOL 162.24 VL 26.121 GAL 4.58 AZL 90.01 MCA 274.27 SMA 119.84 ECC .24990 INC .0000 V1 30.043
 RP 107.78 LAP .01 LOP 76.52 VP 36.815 GAP 13.29 AZP 90.00 TAL 165.94 TAP 80.21 RCA 89.89 APO 149.79 V2 35.161
 RC 191.786 GL -.04 GP -13.74 ZAL 67.52 ZAP 165.70 ETS 289.89 ZAE 131.71 ETE 192.33 ZAC 175.24 ETC 177.03 CLP-176.00

PLANETOCENTRIC CONIC

C3 18.764 VHL 4.332 DLA 23.32 RAL 95.15 RAD 6567.8 VEL 11.838 PTH 2.10 VHP 8.934 DPA 9.72 RAP 81.45 ECC 1.3088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 20 3030.05 -27.81 98.61 323.84 84.43 4 17 50 2430.1 -28.29 89.98
 90.00 22 29 10 4012.57 -5.98 161.49 317.06 62.27 23 36 3 3412.6 -9.64 154.73
 100.00 5 6 49 2709.26 -29.68 75.18 324.01 86.30 5 51 58 2109.3 -29.88 66.38
 100.00 23 32 22 3808.59 -4.32 145.59 316.16 60.39 24 35 50 3208.6 -8.24 138.99
 110.00 6 51 41 2381.19 -34.17 50.40 324.14 90.91 7 31 22 1781.2 -33.67 41.19
 110.00 0 7 55 3709.42 -5.51 135.71 313.78 55.82 1 9 45 3109.4 -4.99 129.49

DIFFERENTIAL CORRECTIONS

TDE -.0807 TRA 2.2510 TC3-5.1850 BAU 1.3015
 RDE .2973 RRA .1775 RC3 -.1751 FAU .02046
 FDE -.1265 FRA .9037 FC3 -.9440 BSP 17860
 BDE .3081 BRA 2.2580 BC3 5.1880 FSP -445

MID-COURSE EXECUTION ACCURACY

SGT 5540.9 SGR 493.0 SG3 133.6
 RRT .5376 RRF .5130 RTF .9234
 SGB 5562.8 R23 .0164 R13 .9235
 SG1 5547.3 SG2 415.2 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 987.7 SR 400.7 SS 328.4
 CRT .0840 CRS .2095 CST -.9540
 LSA 1036.9 MSA 410.2 SSA 22.3
 EL1 988.4 EL2 399.0 ALF 2.33

LAUNCH DATE MAR 3 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 550.788

RL 148.31 LAL .00 LOL 162.24 VL 26.074 GAL 5.29 AZL 90.20 MCA 277.50 SMA 119.58 ECC .25636 INC .1998 V1 30.043
 RP 107.75 LAP .20 LOP 79.74 VP 36.792 GAP 13.75 AZP 90.03 TAL 164.22 TAP 81.72 RCA 88.92 APO 150.23 V2 35.172
 RC 193.588 GL -1.15 GP -13.39 ZAL 64.20 ZAP 166.23 ETS 287.15 ZAE 131.82 ETE 192.05 ZAC 177.50 ETC 163.59 CLP-176.77

PLANETOCENTRIC CONIC

C3 20.514 VHL 4.529 DLA 22.05 RAL 98.69 RAD 6567.8 VEL 11.912 PTH 2.12 VHP 9.193 DPA 10.33 RAP 83.82 ECC 1.3376
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 53 2989.17 -28.04 95.64 328.61 85.90 4 48 42 2389.2 -28.32 86.99
 90.00 22 25 53 4095.72 -3.32 166.16 321.26 61.86 23 34 9 3495.7 -7.06 159.47
 100.00 5 35 57 2676.18 -29.80 72.73 328.73 87.59 6 20 34 2076.2 -29.82 63.93
 100.00 23 31 30 3883.96 -1.78 149.74 320.40 60.16 24 36 14 3284.0 -5.74 143.19
 110.00 7 16 52 2360.46 -34.14 48.78 328.75 91.86 7 56 13 1760.5 -33.50 39.59
 110.00 0 11 0 3772.44 1.90 138.99 318.11 55.86 1 13 53 3172.4 -2.59 132.79

DIFFERENTIAL CORRECTIONS

TDE -.2414 TRA 2.5708 TC3-4.7484 BAU 1.3030
 RDE .3023 RRA .1944 RC3 -.1566 FAU .01901
 FDE -.1679 FRA .9541 FC3 -.8024 BSP 17984
 BDE .3868 BRA 2.5781 BC3 4.7510 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 5559.4 SGR 486.6 SG3 130.2
 RRT .5267 RRF .5013 RTF .9267
 SGB 5580.6 R23 .0125 R13 .9267
 SG1 5565.3 SG2 413.2 THA 2.65

ORBIT DETERMINATION ACCURACY

ST 1103.6 SR 390.6 SS 353.7
 CRT -.0752 CRS .2877 CST -.9747
 LSA 1157.1 MSA 395.4 SSA 20.3
 EL1 1104.1 EL2 389.4 ALF 178.26

LAUNCH DATE MAR 3 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 556.083

RL 148.31 LAL .00 LOL 162.24 VL 26.028 GAL 6.03 AZL 90.40 MCA 280.73 SMA 119.32 ECC .26341 INC .3956 V1 30.043
 RP 107.71 LAP .39 LOP 82.97 VP 36.769 GAP 14.24 AZP 90.07 TAL 162.53 TAP 83.26 RCA 87.89 APO 150.75 V2 35.182
 RC 195.366 GL -2.16 GP -13.07 ZAL 61.03 ZAP 166.71 ETS 284.14 ZAE 131.92 ETE 191.79 ZAC 178.84 ETC 91.90 CLP-177.55

PLANETOCENTRIC CONIC

C3 22.605 VHL 4.755 OLA 20.82 RAL 102.02 RAD 6567.9 VEL 11.999 PTH 2.14 VHP 9.474 DPA 10.88 RAP 86.21 ECC 1.3720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 35 2956.73 -28.18 93.28 333.31 87.07 5 16 52 2356.7 -28.29 84.62
 90.00 22 23 45 4174.98 -.77 170.59 325.48 61.69 23 33 20 3575.0 -4.55 163.94
 100.00 6 2 47 2649.76 -29.86 70.77 333.38 88.62 6 46 57 2049.8 -29.74 61.97
 100.00 23 31 14 3957.19 .70 153.76 324.66 60.12 24 37 11 3357.2 -3.28 147.23
 110.00 7 40 25 2344.32 -34.10 47.52 333.33 92.61 8 19 29 1744.3 -33.36 38.35
 110.00 0 14 2 3835.40 4.30 142.29 322.42 56.06 1 17 57 3235.4 -.19 136.07

DIFFERENTIAL CORRECTIONS

TOE -.4096 TRA 2.9077 TC3-4.3049 BAU 1.3017
 RDE .3083 RRA .2114 RC3 -.1382 FAU .01759
 FDE -.2075 FRA 1.0057 FC3 -.6736 BSP 18081
 BOE .5127 BRA 2.9154 BC3 4.3071 FSP -426

MID-COURSE EXECUTION ACCURACY

SGT 5572.7 SGR 479.1 SG3 126.8
 RRT .5154 RRF .4901 RTF .9300
 SGB 5593.2 R23 .0095 R13 .9300
 SG1 5578.2 SG2 410.2 THA 2.55

ORBIT DETERMINATION ACCURACY

ST 1234.3 SR 380.4 SS 378.9
 CRT -.1937 CRS .3466 CST -.9860
 LSA 1292.4 MSA 375.9 SSA 18.7
 EL1 1236.7 EL2 372.5 ALF 176.24

LAUNCH DATE MAR 3 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 561.302

RL 148.31 LAL .00 LOL 162.24 VL 25.983 GAL 6.81 AZL 90.60 MCA 283.96 SMA 119.07 ECC .27113 INC .5959 V1 30.043
 RP 107.68 LAP .58 LOP 86.20 VP 36.747 GAP 14.77 AZP 90.14 TAL 160.87 TAP 84.82 RCA 86.79 APO 151.36 V2 35.192
 RC 197.118 GL -3.07 GP -12.77 ZAL 58.04 ZAP 167.12 ETS 280.87 ZAE 132.00 ETE 191.55 ZAC 177.19 ETC 34.73 CLP-178.34

PLANETOCENTRIC CONIC

C3 25.092 VHL 5.009 OLA 19.63 RAL 105.13 RAD 6568.0 VEL 12.102 PTH 2.17 VHP 9.780 DPA 11.36 RAP 88.61 ECC 1.4129
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 47 2931.56 -28.25 91.44 337.93 87.99 5 42 38 2331.6 -28.23 82.78
 90.00 22 22 24 4251.22 1.69 174.84 329.71 61.73 23 33 16 3651.2 -2.10 168.21
 100.00 6 27 28 2629.42 -29.89 69.26 337.97 89.41 7 11 18 2029.4 -29.65 60.46
 100.00 23 31 24 4028.61 3.12 157.68 328.92 60.26 24 38 32 3428.6 -.86 151.16
 110.00 8 2 19 2332.68 -34.06 46.61 337.86 93.14 8 41 12 1732.7 -33.25 37.46
 110.00 0 16 58 3898.11 6.67 145.59 326.72 56.40 1 21 56 3298.1 2.21 139.35

DIFFERENTIAL CORRECTIONS

TOE -.5859 TRA 3.2632 TC3-3.8659 BAU 1.2975
 RDE .3152 RRA .2281 RC3 -.1202 FAU .01620
 FDE -.2461 FRA 1.0585 FC3 -.5590 BSP 18163
 BOE .6653 BRA 3.2712 BC3 3.8678 FSP -417

MID-COURSE EXECUTION ACCURACY

SGT 5581.4 SGR 470.3 SG3 123.6
 RRT .5038 RRF .4787 RTF .9335
 SGB 5601.2 R23 .0069 R13 .9336
 SG1 5586.5 SG2 405.9 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 1369.6 SR 370.0 SS 403.6
 CRT -.2810 CRS .3924 CST -.9919
 LSA 1431.3 MSA 356.0 SSA 17.3
 EL1 1373.8 EL2 354.0 ALF 175.35

LAUNCH DATE MAR 3 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 566.432

RL 148.31 LAL .00 LOL 162.24 VL 25.939 GAL 7.65 AZL 90.80 MCA 287.19 SMA 118.83 ECC .27959 INC .8020 V1 30.043
 RP 107.66 LAP .77 LOP 89.43 VP 36.724 GAP 15.34 AZP 90.24 TAL 159.23 TAP 86.41 RCA 85.60 APO 152.05 V2 35.201
 RC 198.846 GL -3.90 GP -12.50 ZAL 55.22 ZAP 167.47 ETS 277.34 ZAE 132.06 ETE 191.32 ZAC 174.92 ETC 23.70 CLP-179.14

PLANETOCENTRIC CONIC

C3 28.036 VHL 5.295 OLA 18.48 RAL 108.04 RAD 6568.1 VEL 12.223 PTH 2.20 VHP 10.112 DPA 11.77 RAP 91.02 ECC 1.4614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 44 2912.83 -28.29 90.07 342.49 88.68 6 6 17 2312.8 -28.17 81.41
 90.00 22 21 37 4324.98 4.06 178.96 333.95 61.95 23 33 42 3725.0 .28 172.32
 100.00 6 50 12 2614.68 -29.89 68.16 342.51 89.99 7 33 46 2014.7 -29.57 59.37
 100.00 23 31 51 4098.37 5.47 161.53 333.17 60.57 24 40 9 3498.4 1.51 154.98
 110.00 8 22 39 2325.40 -34.03 46.05 342.36 93.48 9 1 25 1725.4 -33.17 36.91
 110.00 0 19 48 3960.41 9.01 148.90 331.01 56.88 1 25 49 3360.4 4.58 142.61

DIFFERENTIAL CORRECTIONS

TOE -.7671 TRA 3.6415 TC3-3.4357 BAU 1.2884
 RDE .3233 RRA .2445 RC3 -.1028 FAU .01480
 FDE -.2824 FRA 1.1141 FC3 -.4570 BSP 18159
 BOE .8324 BRA 3.6497 BC3 3.4373 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 5584.7 SGR 460.5 SG3 120.4
 RRT .4917 RRF .4678 RTF .9371
 SGB 5603.6 R23 .0053 R13 .9371
 SG1 5589.3 SG2 400.7 THA 2.33

ORBIT DETERMINATION ACCURACY

ST 1501.5 SR 359.8 SS 427.1
 CRT -.3439 CRS .4263 CST -.9952
 LSA 1565.9 MSA 337.9 SSA 16.2
 EL1 1506.8 EL2 336.6 ALF 175.04

LAUNCH DATE MAR 3 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 571.457

RL 148.31 LAL .00 LOL 162.24 VL 25.896 GAL 8.53 AZL 91.02 MCA 290.42 SMA 118.59 ECC .28888 INC 1.0154 V1 30.043
 RP 107.63 LAP .95 LOP 92.66 VP 36.702 GAP 15.95 AZP 90.35 TAL 157.62 TAP 88.04 RCA 84.33 APO 152.84 V2 35.209
 RC 200.549 GL -4.64 GP -12.26 ZAL 52.57 ZAP 167.74 ETS 273.56 ZAE 132.10 ETE 191.10 ZAC 172.59 ETC 19.53 CLP-179.95

PLANETOCENTRIC CONIC

C3 31.516 VHL 5.614 OLA 17.39 RAL 110.74 RAD 6568.3 VEL 12.365 PTH 2.23 VHP 10.475 DPA 12.12 RAP 93.43 ECC 1.5187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 39 39 2899.92 -28.31 89.13 346.99 89.15 6 27 59 2299.9 -28.12 80.47
 90.00 22 21 14 4396.51 6.34 182.99 338.17 62.34 23 34 30 3796.5 2.59 176.32
 100.00 7 11 4 2605.11 -29.89 67.45 346.99 90.36 7 54 29 2005.1 -29.52 58.67
 100.00 23 32 30 4166.55 7.73 165.32 337.42 61.04 24 41 56 3566.5 3.81 158.73
 110.00 8 41 28 2322.30 -34.01 45.80 346.82 93.62 9 20 10 1722.3 -33.14 36.67
 110.00 0 22 31 4022.13 11.28 152.23 335.28 57.52 1 29 34 3422.1 6.92 145.86

DIFFERENTIAL CORRECTIONS

TOE -.9602 TRA 4.0382 TC3-3.0302 BAU 1.2773
 RDE .3323 RRA .2599 RC3 -.0868 FAU .01348
 FDE -.3191 FRA 1.1706 FC3 -.3704 BSP 18229
 BOE 1.0160 BRA 4.0465 BC3 3.0315 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 5584.6 SGR 449.2 SG3 117.4
 RRT .4783 RRF .4556 RTF .9410
 SGB 5602.6 R23 .0037 R13 .9410
 SG1 5588.7 SG2 394.2 THA 2.21

ORBIT DETERMINATION ACCURACY

ST 1627.7 SR 349.3 SS 450.1
 CRT -.3940 CRS .4555 CST -.9971
 LSA 1694.4 MSA 320.6 SSA 15.2
 EL1 1633.7 EL2 319.8 ALF 174.97

LAUNCH DATE MAR 3 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 576.357

RL 148.31 LAL .00 LOL 162.24 VL 25.853 GAL 9.48 AZL 91.24 MCA 293.65 SMA 118.35 ECC .29909 INC 1.2381 V1 30.043
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.680 GAP 16.63 A2P 90.50 TAL 156.06 TAP 89.71 RCA 82.96 APO 153.75 V2 35.217
 RC 202.227 GL -5.30 GP -12.03 ZAL 50.10 ZAP 167.95 ETS 269.55 ZAE 132.12 ETE 190.89 ZAC 170.25 ETC 17.36 CLP 179.22

PLANETOCENTRIC CONIC

C3 35.626 VHL 5.969 OLA 16.36 RAL 113.24 RAD 6568.4 VEL 12.530 PTH 2.27 VHP 10.873 DPA 12.41 RAP 95.83 ECC 1.5863
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 59 42 2892.25 -28.31 88.57 351.42 89.43 6 47 54 2292.3 -28.09 79.91
 90.00 22 21 8 4465.98 8.52 186.93 342.38 62.89 23 35 34 3866.0 4.81 180.21
 100.00 7 30 14 2600.30 -29.89 67.09 351.42 90.55 8 13 34 2000.3 -29.49 58.31
 100.00 23 33 17 4233.17 9.91 169.07 341.64 61.65 24 43 50 3633.2 6.05 162.42
 110.00 8 58 49 2323.12 -34.02 45.87 351.24 93.58 9 37 32 1723.1 -33.15 36.74
 110.00 0 25 7 4083.11 13.49 155.58 339.53 58.29 1 35 10 3483.1 9.20 149.11

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1609 TRA 4.4594 TC3-2.6489 BAU 1.2621 SGT 5580.7 SGR 436.7 SG3 114.5 ST 1744.2 SR 338.8 SS 472.1
 RDE .3423 RRA .2743 RC3 -.0720 FAU .01218 RRT .4636 RRF .4426 RTF .9450 CRT -.4328 CRS .4792 CST -.9981
 FDE -.3551 FRA 1.2300 FC3 -.2961 BSP 18300 SGB 5597.8 R23 .0027 R13 .9450 LSA 1812.9 MSA 304.8 SSA 14.3
 BOE 1.2103 BRA 4.4678 BC3 2.6498 FSP -387 SG1 5584.4 SG2 386.7 THA 2.09 EL1 1750.5 EL2 304.3 ALF 175.04

LAUNCH DATE MAR 3 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 581.110

RL 148.31 LAL .00 LOL 162.24 VL 25.811 GAL 10.50 AZL 91.47 MCA 296.88 SMA 118.13 ECC .31035 INC 1.4723 V1 30.043
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.657 GAP 17.36 A2P 90.67 TAL 154.54 TAP 91.43 RCA 81.47 APO 154.79 V2 35.225
 RC 203.880 GL -5.88 GP -11.82 ZAL 47.81 ZAP 168.07 ETS 265.32 ZAE 132.11 ETE 190.68 ZAC 167.93 ETC 16.04 CLP 178.37

PLANETOCENTRIC CONIC

C3 40.482 VHL 6.363 OLA 15.40 RAL 115.55 RAD 6568.6 VEL 12.722 PTH 2.31 VHP 11.310 DPA 12.63 RAP 98.23 ECC 1.6662
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 18 0 2889.34 -28.31 88.36 355.78 89.54 7 6 9 2289.3 -28.08 79.70
 90.00 22 21 15 4533.48 10.59 190.81 346.57 63.58 23 36 48 3933.5 6.95 184.01
 100.00 7 47 46 2599.85 -29.89 67.06 355.78 90.57 8 31 6 1999.8 -29.49 58.28
 100.00 23 34 10 4298.21 11.99 172.78 345.84 62.41 24 45 48 3698.2 8.20 166.04
 110.00 9 14 46 2327.62 -34.04 46.22 355.61 93.38 9 53 34 1727.6 -33.19 37.08
 110.00 0 27 35 4143.20 15.61 158.94 343.76 59.20 1 36 38 3543.2 11.41 152.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3722 TRA 4.9067 TC3-2.2919 BAU 1.2408 SGT 5571.1 SGR 423.0 SG3 111.6 ST 1850.6 SR 328.4 SS 493.5
 RDE .3535 RRA .2873 RC3 -.0585 FAU .01091 RRT .4472 RRF .4283 RTF .9494 CRT -.4648 CRS .4995 CST -.9988
 FDE -.3907 FRA 1.2925 FC3 -.2333 BSP 18324 SGB 5587.1 R23 .0020 R13 .9494 LSA 1921.4 MSA 290.0 SSA 13.5
 BOE 1.4170 BRA 4.9152 BC3 2.2927 FSP -378 SG1 5574.3 SG2 378.1 THA 1.95 EL1 1857.1 EL2 289.7 ALF 175.17

LAUNCH DATE MAR 3 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 585.686

RL 148.31 LAL .00 LOL 162.24 VL 25.770 GAL 11.60 AZL 91.72 MCA 300.12 SMA 117.91 ECC .32280 INC 1.7203 V1 30.043
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.635 GAP 18.17 A2P 90.86 TAL 153.08 TAP 93.20 RCA 79.85 APO 155.97 V2 35.232
 RC 205.508 GL -6.40 GP -11.63 ZAL 45.70 ZAP 168.11 ETS 260.92 ZAE 132.07 ETE 190.48 ZAC 165.62 ETC 15.14 CLP 177.50

PLANETOCENTRIC CONIC

C3 46.232 VHL 6.799 OLA 14.50 RAL 117.67 RAD 6568.7 VEL 12.946 PTH 2.36 VHP 11.792 DPA 12.80 RAP 100.61 ECC 1.7609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 34 41 2890.72 -28.31 88.46 .07 89.49 7 22 52 2290.7 -28.08 79.80
 90.00 22 21 30 4598.99 12.54 194.63 350.73 64.40 23 38 9 3999.0 8.99 187.74
 100.00 8 3 48 2603.36 -29.89 67.32 .07 90.43 8 47 11 2003.4 -29.51 58.54
 100.00 23 35 5 4361.59 13.96 176.46 350.02 63.30 24 47 47 3761.6 10.26 169.62
 110.00 9 29 24 2335.49 -34.07 46.83 359.92 93.01 10 8 20 1735.5 -33.27 37.68
 110.00 0 29 54 4202.22 17.64 162.32 347.96 60.23 1 39 56 3602.2 13.55 155.60

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.5889 TRA 5.3878 TC3-1.9596 BAU 1.2115 SGT 5557.4 SGR 408.3 SG3 108.9 ST 1943.7 SR 318.2 SS 514.1
 RDE .3661 RRA .2986 RC3 -.0463 FAU .00959 RRT .4291 RRF .4129 RTF .9537 CRT -.4902 CRS .5160 CST -.9992
 FDE -.4253 FRA 1.3600 FC3 -.1796 BSP 18255 SGB 5572.3 R23 .0020 R13 .9537 LSA 2016.7 MSA 276.6 SSA 12.8
 BOE 1.6305 BRA 5.3961 BC3 1.9601 FSP -367 SG1 5560.1 SG2 368.6 THA 1.81 EL1 1950.1 EL2 276.4 ALF 175.32

LAUNCH DATE MAR 3 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 590.047

RL 148.31 LAL .00 LOL 162.24 VL 25.731 GAL 12.78 AZL 91.99 MCA 303.35 SMA 117.69 ECC .33660 INC 1.9853 V1 30.043
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.613 GAP 19.06 A2P 91.09 TAL 151.69 TAP 95.05 RCA 78.08 APO 157.31 V2 35.238
 RC 207.111 GL -6.85 GP -11.45 ZAL 43.75 ZAP 168.06 ETS 256.39 ZAE 131.99 ETE 190.28 ZAC 163.34 ETC 14.50 CLP 176.59

PLANETOCENTRIC CONIC

C3 53.059 VHL 7.284 OLA 13.66 RAL 119.62 RAD 6568.9 VEL 13.207 PTH 2.41 VHP 12.326 DPA 12.91 RAP 102.96 ECC 1.8732
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 51 2895.95 -28.31 88.84 4.28 89.30 7 38 7 2295.9 -28.11 80.18
 90.00 22 21 52 4662.47 14.38 198.38 354.84 65.34 23 39 34 4062.5 10.93 191.40
 100.00 8 18 23 2610.44 -29.89 67.85 4.28 90.16 9 1 53 2010.4 -29.55 59.06
 100.00 23 36 1 4423.21 15.81 180.10 354.15 64.30 24 49 44 3823.2 12.22 173.14
 110.00 9 42 45 2346.43 -34.10 47.68 4.17 92.51 10 21 52 1746.4 -33.38 38.52
 110.00 0 32 4 4259.99 19.56 165.70 352.13 61.39 1 43 4 3660.0 15.59 158.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8218 TRA 5.8980 TC3-1.6592 BAU 1.1772 SGT 5539.9 SGR 392.2 SG3 106.3 ST 2027.4 SR 307.9 SS 535.2
 RDE .3797 RRA .3074 RC3 -.0358 FAU .00832 RRT .4077 RRF .3942 RTF .9582 CRT -.5142 CRS .5329 CST -.9995
 FDE -.4614 FRA 1.4311 FC3 -.1357 BSP 18277 SGB 5553.8 R23 .0021 R13 .9582 LSA 2102.8 MSA 263.3 SSA 12.1
 BOE 1.8609 BRA 5.9060 BC3 1.6596 FSP -359 SG1 5542.2 SG2 358.0 THA 1.66 EL1 2033.6 EL2 263.2 ALF 175.46

LAUNCH DATE MAR 3 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 594.147

RL 148.31 LAL .00 LOL 162.24 VL 25.692 GAL 14.07 AZL 92.27 MCA 306.59 SMA 117.49 ECC .35195 INC 2.2708 V1 30.043
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.591 GAP 20.05 AZP 91.35 TAL 150.38 TAP 96.97 RCA 76.14 APO 158.83 V2 35.243
 RC 208.690 GL -7.25 GP -11.28 ZAL 41.98 ZAP 167.91 ETS 251.77 ZAE 131.87 ETE 190.08 ZAC 161.10 ETC 14.03 CLP 175.64

PLANETOCENTRIC CONIC

C3 61.196 VHL 7.823 DLA 12.90 RAL 121.39 RAD 6569.1 VEL 13.511 PTH 2.47 VHP 12.921 DPA 12.98 RAP 105.28 ECC 2.0071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 34 2904.60 -28.30 89.47 8.38 88.98 7 51 59 2304.6 -28.14 80.81
 90.00 22 22 17 4723.81 16.09 202.08 358.90 66.38 23 41 1 4123.8 12.76 194.98
 100.00 8 31 36 2620.72 -29.89 68.61 8.40 89.75 9 15 16 2020.7 -29.61 59.82
 100.00 23 36 57 4482.93 17.54 183.69 358.22 65.40 24 51 40 3882.9 14.07 176.61
 110.00 9 54 53 2360.11 -34.14 48.75 8.33 91.88 10 34 13 1760.1 -33.50 39.57
 110.00 0 34 5 4316.31 21.36 169.08 356.25 62.65 1 46 1 3716.3 17.52 162.04

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.0670 TRA 6.4455 TC3 -1.3855 BAU 1.1337
 RDE .3949 RRA .3133 RC3 -.0266 FAU .00701
 FDE -.4982 FRA 1.5079 FC3 -.0992 BSP 18284
 BDE 2.1043 BRA 6.4531 BC3 1.3858 FSP -351

SGT 5517.8 SGR 375.2 SG3 103.7
 RRT .3827 RRF .3722 RTF .9626
 SGB 5530.5 R23 .0024 R13 .9626
 SG1 5519.6 SG2 346.5 THA 1.50

ST 2099.3 SR 297.7 SS 556.7
 CRT -.5563 CRS .5491 CST -.9997
 LSA 2177.8 MSA 250.6 SSA 11.4
 EL1 2105.4 EL2 250.5 ALF 175.59

LAUNCH DATE MAR 3 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 597.927

RL 148.31 LAL .00 LOL 162.24 VL 25.655 GAL 15.48 AZL 92.58 MCA 309.83 SMA 117.29 ECC .36907 INC 2.5815 V1 30.043
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.569 GAP 21.15 AZP 91.65 TAL 149.16 TAP 98.99 RCA 74.00 APO 160.57 V2 35.248
 RC 210.244 GL -7.60 GP -11.13 ZAL 40.37 ZAP 167.66 ETS 247.10 ZAE 131.70 ETE 189.88 ZAC 158.90 ETC 13.67 CLP 174.65

PLANETOCENTRIC CONIC

C3 70.939 VHL 8.423 DLA 12.20 RAL 122.99 RAD 6569.4 VEL 13.867 PTH 2.53 VHP 13.585 DPA 12.99 RAP 107.55 ECC 2.1675
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 15 54 2916.30 -28.28 90.33 12.38 88.55 8 4 30 2316.3 -28.18 81.66
 90.00 22 22 44 4782.84 17.66 205.69 2.87 67.50 23 42 27 4182.8 14.46 198.48
 100.00 8 43 29 2633.83 -29.88 69.59 12.41 89.24 9 27 23 2033.8 -29.67 60.79
 100.00 23 37 50 4540.54 19.14 187.22 2.22 66.59 24 53 31 3940.5 15.80 180.01
 110.00 10 5 49 2376.21 -34.17 50.01 12.40 91.14 10 45 25 1776.2 -33.63 40.80
 110.00 0 35 55 4370.93 23.03 172.44 .30 64.01 1 48 46 3770.9 19.34 165.24

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.3262 TRA 7.0360 TC3 -1.1377 BAU 1.0791
 RDE .4116 RRA .3155 RC3 -.0189 FAU .00565
 FDE -.5361 FRA 1.5915 FC3 -.0689 BSP 18270
 BDE 2.3624 BRA 7.0431 BC3 1.1378 FSP -342

SGT 5491.6 SGR 357.3 SG3 101.3
 RRT .3533 RRF .3458 RTF .9671
 SGB 5503.2 R23 .0031 R13 .9671
 SG1 5493.1 SG2 334.2 THA 1.32

ST 2160.0 SR 287.7 SS 579.1
 CRT -.5573 CRS .5653 CST -.9998
 LSA 2242.1 MSA 238.2 SSA 10.8
 EL1 2166.1 EL2 238.2 ALF 175.70

LAUNCH DATE MAR 3 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 601.312

RL 148.31 LAL .00 LOL 162.24 VL 25.619 GAL 17.03 AZL 92.92 MCA 313.06 SMA 117.10 ECC .38824 INC 2.9230 V1 30.043
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.548 GAP 22.38 AZP 92.00 TAL 148.06 TAP 101.12 RCA 71.63 APO 162.56 V2 35.252
 RC 211.773 GL -7.90 GP -10.99 ZAL 38.94 ZAP 167.30 ETS 242.44 ZAE 131.47 ETE 189.67 ZAC 156.75 ETC 13.39 CLP 173.60

PLANETOCENTRIC CONIC

C3 82.673 VHL 9.092 DLA 11.58 RAL 124.42 RAD 6569.6 VEL 14.284 PTH 2.60 VHP 14.331 DPA 12.97 RAP 109.77 ECC 2.3606
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 26 52 2930.65 -28.25 91.38 16.24 88.03 8 15 43 2330.7 -28.23 82.71
 90.00 22 23 11 4839.34 19.10 209.22 6.75 68.69 23 43 50 4239.3 16.03 201.88
 100.00 8 54 4 2649.42 -29.86 70.74 16.29 88.63 9 38 13 2049.4 -29.73 61.94
 100.00 23 38 40 4595.80 20.59 190.68 6.11 67.84 24 55 16 3995.8 17.41 183.33
 110.00 10 15 34 2394.41 -34.18 51.43 16.34 90.30 10 55 28 1794.4 -33.76 42.21
 110.00 0 37 35 4423.58 24.56 175.76 4.26 65.44 1 51 19 3823.6 21.04 168.38

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.5984 TRA 7.6779 TC3 -.9131 BAU 1.0093
 RDE .4305 RRA .3134 RC3 -.0124 FAU .00415
 FDE -.5750 FRA 1.6839 FC3 -.0435 BSP 18161
 BDE 2.6338 BRA 7.6843 BC3 .9132 FSP -333

SGT 5461.6 SGR 338.7 SG3 98.9
 RRT .3183 RRF .3142 RTF .9714
 SGB 5472.1 R23 .0041 R13 .9714
 SG1 5462.6 SG2 321.0 THA 1.13

ST 2208.8 SR 277.9 SS 602.6
 CRT -.5775 CRS .5813 CST -.9998
 LSA 2295.2 MSA 226.3 SSA 10.2
 EL1 2214.7 EL2 226.3 ALF 175.80

LAUNCH DATE MAR 3 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 604.200

RL 148.31 LAL .00 LOL 162.24 VL 25.585 GAL 18.74 AZL 93.50 MCA 316.30 SMA 116.92 ECC .40978 INC 3.3026 V1 30.043
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.527 GAP 23.77 AZP 92.39 TAL 147.10 TAP 103.40 RCA 69.01 APO 164.83 V2 35.255
 RC 213.276 GL -8.15 GP -10.85 ZAL 37.68 ZAP 166.82 ETS 237.82 ZAE 131.17 ETE 189.44 ZAC 154.67 ETC 13.18 CLP 172.49

PLANETOCENTRIC CONIC

C3 96.899 VHL 9.844 DLA 11.02 RAL 125.68 RAD 6569.9 VEL 14.773 PTH 2.67 VHP 15.174 DPA 12.90 RAP 111.92 ECC 2.5947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 36 29 2947.33 -28.21 92.59 19.94 87.42 8 25 36 2347.3 -28.27 83.93
 90.00 22 23 36 4893.02 20.39 212.63 10.48 69.91 23 45 9 4293.0 17.47 205.17
 100.00 9 3 21 2667.16 -29.83 72.06 20.01 87.94 9 47 48 2067.2 -29.80 63.26
 100.00 23 39 25 4648.42 21.91 194.03 9.87 69.14 24 56 53 4048.4 18.87 186.55
 110.00 10 24 7 2414.41 -34.18 52.99 20.13 89.37 11 4 22 1814.4 -33.89 43.76
 110.00 0 39 4 4473.93 25.94 179.02 8.09 66.92 1 53 37 3873.9 22.59 171.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.8932 TRA 8.3706 TC3 -.7139 BAU .9249
 RDE .4514 RRA .3055 RC3 -.0074 FAU .00257
 FDE -.6172 FRA 1.7848 FC3 -.0230 BSP 18138
 BDE 2.9282 BRA 8.3761 BC3 .7140 FSP -326

SGT 5426.8 SGR 319.5 SG3 96.6
 RRT .2752 RRF .2742 RTF .9756
 SGB 5436.2 R23 .0051 R13 .9756
 SG1 5427.5 SG2 307.1 THA .93

ST 2248.3 SR 268.3 SS 628.6
 CRT -.5993 CRS .5996 CST -.9999
 LSA 2340.1 MSA 214.3 SSA 9.6
 EL1 2254.1 EL2 214.2 ALF 175.87

LAUNCH DATE MAR 3 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 606.464

RL 148.31 LAL .00 LOL 162.24 VL 25.552 GAL 20.65 AZL 93.73 HCA 319.53 SMA 116.75 ECC .43407 INC 3.7301 V1 30.043
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.507 GAP 25.35 AZP 92.84 TAL 146.30 TAP 105.84 RCA 66.07 APO 167.42 V2 35.258
 RC 214.754 GL -8.37 GP -10.73 ZAL 36.60 ZAP 166.21 ETS 233.27 ZAE 130.78 ETE 189.20 ZAC 152.67 ETC 13.01 CLP 171.28

PLANETOCENTRIC CONIC

C3 114.277 VHL 10.690 DLA 10.54 RAL 126.75 RAD 6570.2 VEL 15.350 PTH 2.75 VHP 16.132 DPA 12.81 RAP 113.98 ECC 2.8807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 44 43 2966.04 -28.14 93.96 23.44 86.74 8 34 9 2366.0 -28.30 85.30
 90.00 22 23 57 4943.53 21.53 215.89 14.04 71.16 23 46 21 4343.5 18.76 208.31
 100.00 9 11 19 2686.77 -29.77 73.52 23.54 87.17 9 56 5 2086.8 -29.85 64.71
 100.00 23 40 3 4698.04 23.07 197.26 13.47 70.45 24 58 21 4098.0 20.20 189.64
 110.00 10 31 28 2435.94 -34.15 54.67 23.74 88.38 11 12 4 1835.9 -34.00 45.43
 110.00 0 40 19 4521.63 27.18 182.17 11.77 68.42 1 55 40 3921.6 24.00 174.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.2082 TRA 9.1260 TC3 -.5364 BAU .8195 SGT 5387.5 SGR 300.1 SG3 94.5 ST 2277.2 SR 259.1 SS 657.1
 RDE .4752 RRA .2907 RC3 -.0035 FAU .00078 RRT .2221 RRF .2243 RTF .9795 CRT -.6220 CRS .6193 CST -.9999
 FDE -.6622 FRA 1.8972 FC3 -.0059 BSP 18089 SGB 5395.9 R23 .0062 R13 .9795 LSA 2375.6 MSA 202.5 SSA 9.1
 BDE 3.2432 BRA 9.1306 BC3 .5364 FSP -318 SG1 5387.9 SG2 292.5 THA .71 EL1 2283.0 EL2 202.4 ALF 175.92

LAUNCH DATE MAR 3 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 607.935

RL 148.31 LAL .00 LOL 162.24 VL 25.523 GAL 22.80 AZL 94.22 HCA 322.77 SMA 116.59 ECC .46156 INC 4.2183 V1 30.043
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.488 GAP 27.15 AZP 93.36 TAL 145.71 TAP 108.48 RCA 62.78 APO 170.40 V2 35.259
 RC 216.204 GL -8.54 GP -10.60 ZAL 35.71 ZAP 165.45 ETS 228.84 ZAE 130.28 ETE 188.95 ZAC 150.77 ETC 12.90 CLP 169.98

PLANETOCENTRIC CONIC

C3 135.685 VHL 11.648 DLA 10.14 RAL 127.64 RAD 6570.5 VEL 16.032 PTH 2.83 VHP 17.226 DPA 12.70 RAP 115.94 ECC 3.2330
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 51 31 2986.52 -28.06 95.45 26.73 85.99 8 41 18 2386.5 -28.32 86.79
 90.00 22 24 13 4990.47 22.53 218.97 17.39 72.38 23 47 24 4390.5 19.91 211.27
 100.00 9 17 53 2707.98 -29.69 75.09 26.85 86.35 10 3 1 2108.0 -29.88 66.29
 100.00 23 40 33 4744.24 24.09 200.31 16.84 71.75 24 59 37 4144.2 21.37 192.57
 110.00 10 37 32 2458.74 -34.09 56.45 27.14 87.32 11 18 31 1858.7 -34.09 47.20
 110.00 0 41 19 4566.25 28.26 185.19 15.22 69.91 1 57 25 3966.2 25.26 177.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.5461 TRA 9.9525 TC3 -.3789 BAU .6874 SGT 5343.5 SGR 280.9 SG3 92.4 ST 2295.4 SR 250.4 SS 688.8
 RDE .5024 RRA .2672 RC3 -.0009 FAU-.00131 RRT .1563 RRF .1614 RTF .9831 CRT -.6461 CRS .6409 CST -.9999
 FDE -.7108 FRA 2.0229 FC3 .0083 BSP 18017 SGB 5350.9 R23 .0074 R13 .9831 LSA 2402.0 MSA 190.8 SSA 8.5
 BDE 3.5816 BRA 9.9560 BC3 .3789 FSP -312 SG1 5343.7 SG2 277.4 THA .47 EL1 2301.2 EL2 190.6 ALF 175.94

LAUNCH DATE MAR 3 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 608.386

RL 148.31 LAL .00 LOL 162.24 VL 25.495 GAL 25.22 AZL 94.78 HCA 326.00 SMA 116.45 ECC .49276 INC 4.7849 V1 30.043
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.470 GAP 29.22 AZP 93.97 TAL 145.37 TAP 111.37 RCA 59.07 APO 173.83 V2 35.260
 RC 217.629 GL -8.69 GP -10.48 ZAL 35.03 ZAP 164.52 ETS 224.52 ZAE 129.66 ETE 188.66 ZAC 148.99 ETC 12.82 CLP 168.55

PLANETOCENTRIC CONIC

C3 162.306 VHL 12.740 DLA 9.82 RAL 128.32 RAD 6570.8 VEL 16.841 PTH 2.91 VHP 18.484 DPA 12.58 RAP 117.77 ECC 3.6711
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 56 48 3008.61 -27.94 97.06 29.75 85.20 8 46 56 2408.6 -28.31 88.41
 90.00 22 24 22 5033.33 23.39 221.82 20.45 73.57 23 48 16 4433.3 20.91 214.02
 100.00 9 22 59 2730.64 -29.58 76.76 29.90 85.48 10 8 29 2130.6 -29.89 67.97
 100.00 23 40 52 4786.53 24.96 203.15 19.94 73.00 25 0 39 4186.5 22.40 195.29
 110.00 10 42 14 2482.63 -34.00 58.31 30.28 86.23 11 23 37 1882.6 -34.15 49.07
 110.00 0 42 2 4607.31 29.18 188.03 18.41 71.36 1 58 50 4007.3 26.36 179.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.9057 TRA10.8626 TC3 -.2396 BAU .5198 SGT 5295.2 SGR 262.6 SG3 90.5 ST 2301.8 SR 242.3 SS 724.4
 RDE .5340 RRA .2329 RC3 .0007 FAU-.00383 RRT .0748 RRF .0825 RTF .9864 CRT -.6714 CRS .6641 CST -.9999
 FDE -.7632 FRA 2.1654 FC3 .0205 BSP 17847 SGB 5301.7 R23 .0086 R13 .9864 LSA 2418.5 MSA 179.4 SSA 7.9
 BDE 3.9421 BRA10.8651 BC3 .2396 FSP -304 SG1 5295.3 SG2 261.9 THA .21 EL1 2307.5 EL2 179.1 ALF 175.93

LAUNCH DATE MAR 3 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 607.518

RL 148.31 LAL .00 LOL 162.24 VL 25.472 GAL 27.98 AZL 95.46 HCA 329.23 SMA 116.32 ECC .52826 INC 5.4550 V1 30.043
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.454 GAP 31.62 AZP 94.69 TAL 145.35 TAP 114.57 RCA 54.87 APO 177.77 V2 35.261
 RC 219.026 GL -8.79 GP -10.35 ZAL 34.58 ZAP 163.41 ETS 220.35 ZAE 128.88 ETE 188.35 ZAC 147.36 ETC 12.79 CLP 166.96

PLANETOCENTRIC CONIC

C3 195.737 VHL 13.991 DLA 9.60 RAL 128.77 RAD 6571.1 VEL 17.806 PTH 2.99 VHP 19.940 DPA 12.46 RAP 119.44 ECC 4.2213
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 0 23 3032.20 -27.79 98.77 32.45 84.35 8 50 55 2432.2 -28.29 90.14
 90.00 22 24 22 5071.54 24.10 224.39 23.18 74.67 23 48 53 4471.5 21.76 216.50
 100.00 9 26 27 2754.63 -29.44 78.53 32.64 84.55 10 12 21 2154.6 -29.88 69.76
 100.00 23 40 59 4824.34 25.69 205.73 22.70 74.17 25 1 24 4224.3 23.27 197.76
 110.00 10 45 25 2507.48 -33.87 60.24 33.11 85.09 11 27 13 1907.5 -34.18 51.01
 110.00 0 42 26 4644.25 29.96 190.63 21.26 72.71 1 59 50 4044.3 27.30 182.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-4.2970 TRA11.8565 TC3 -.1190 BAU .3114 SGT 5240.1 SGR 246.1 SG3 88.7 ST 2297.7 SR 235.0 SS 765.2
 RDE .5710 RRA .1848 RC3 .0012 FAU-.00688 RRT -.0268 RRF -.0170 RTF .9892 CRT -.6992 CRS .6903 CST -.9999
 FDE -.8220 FRA 2.3255 FC3 .0304 BSP 17766 SGB 5245.9 R23 -.0096 R13 -.9892 LSA 2427.3 MSA 168.0 SSA 7.3
 BDE 4.3347 BRA11.8579 BC3 .1190 FSP -298 SG1 5240.1 SG2 246.0 THA 179.93 EL1 2303.6 EL2 167.6 ALF 175.89

LAUNCH DATE MAR 4 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 13 1969

HELIOCENTRIC CONIC

DISTANCE 199.147

RL 148.35 LAL .00 LOL 163.25 VL 28.563 GAL -12.24 AZL 89.83 HCA 90.33 SMA 136.34 ECC .22882 INC .1671 V1 30.035
 RP 108.60 LAP .17 LOP 253.57 VP 38.349 GAP -6.14 AZP 90.00 TAL 235.67 TAP 325.99 RCA 105.14 APO 167.54 V2 34.894
 RC 64.032 GL .69 GP 22.87 ZAL 161.91 ZAP 42.11 ETS 334.99 ZAE 149.96 ETE 40.01 ZAC 119.98 ETC 149.36 CLP -36.38

PLANETOCENTRIC CONIC

C3 46.628 VHL 6.828 DLA 1.15 RAL .94 RAD 6568.7 VEL 12.961 PTH 2.36 VHP 5.799 DPA 32.95 RAP 25.82 ECC 1.7674
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 30 57 2460.74 -24.68 57.70 237.32 104.34 1 11 58 1860.7 -22.47 49.73
 90.00 12 46 5 5033.25 23.39 221.81 236.47 73.56 14 9 58 4433.3 20.91 214.01
 100.00 1 52 50 2196.63 -25.99 37.89 236.94 105.31 2 29 26 1596.6 -23.64 29.88
 100.00 14 6 53 4772.59 24.68 202.21 236.03 72.58 15 26 26 4172.6 22.07 194.39
 110.00 3 2 18 1979.17 -29.52 20.19 235.74 108.07 3 35 17 1379.2 -26.77 12.08
 110.00 15 13 54 4562.82 28.18 184.96 234.71 69.79 16 29 57 3962.8 25.16 177.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1678 TRA -.3780 TC3 .2256 BAU .2081 SGT 464.1 SGR 527.3 SG3 175.1 ST 170.2 SR 284.8 SS 316.2
 ROE -.3213 RRA .3622 RC3 .2461 FAU .07082 RRT .1842 RRF -.6238 RTF -.2539 CRT .6061 CRS -.7702 CST -.9620
 FDE -.7026 FRA -.8693 FC3-1.3150 BSP 1300 SGB 702.5 R23 -.1095 R13 -.6302 LSA 427.6 MSA 163.4 SSA 24.2
 BDE .3625 BRA .5235 BC3 .3338 FSP -482 SG1 549.2 SG2 438.0 THA 62.40 EL1 307.1 EL2 125.6 ALF 65.79

LAUNCH DATE MAR 4 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

DISTANCE 205.815

RL 148.35 LAL .00 LOL 163.25 VL 28.622 GAL -12.12 AZL 90.02 HCA 93.50 SMA 136.81 ECC .22559 INC .0156 V1 30.035
 RP 108.64 LAP -.02 LOP 256.75 VP 38.383 GAP -5.40 AZP 90.00 TAL 236.44 TAP 329.94 RCA 105.95 APO 167.67 V2 34.883
 RC 66.131 GL -.09 GP 24.30 ZAL 162.37 ZAP 46.22 ETS 337.15 ZAE 150.20 ETE 45.20 ZAC 118.39 ETC 149.39 CLP -40.61

PLANETOCENTRIC CONIC

C3 45.737 VHL 6.763 DLA .27 RAL .84 RAD 6568.7 VEL 12.927 PTH 2.36 VHP 5.500 DPA 33.82 RAP 24.04 ECC 1.7527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 37 6 2428.56 -24.12 55.51 236.53 105.30 1 17 34 1828.6 -21.79 47.61
 90.00 12 39 9 5055.74 23.81 223.32 236.33 74.21 14 3 25 4455.7 21.42 215.47
 100.00 1 58 34 2165.77 -25.42 35.78 236.13 106.28 2 34 40 1565.8 -22.94 27.86
 100.00 14 0 22 4793.76 25.11 203.64 235.92 73.22 15 20 16 4193.8 22.57 195.76
 110.00 3 7 6 1951.25 -28.92 18.24 234.88 109.07 3 39 37 1351.3 -26.04 10.24
 110.00 15 8 20 4581.05 28.60 186.21 234.63 70.42 16 24 41 3981.0 25.66 178.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1707 TRA -.3972 TC3 .2058 BAU .2135 SGT 460.0 SGR 558.8 SG3 194.2 ST 176.6 SR 269.0 SS 348.6
 ROE -.2960 RRA .3803 RC3 .2820 FAU .07732 RRT .1323 RRF -.6717 RTF -.1725 CRT .5602 CRS -.7536 CST -.9557
 FDE -.8140 FRA -.9571 FC3-1.4636 BSP 1376 SGB 723.8 R23 -.0759 R13 -.6727 LSA 443.0 MSA 168.1 SSA 24.2
 BDE .3417 BRA .5499 BC3 .3491 FSP -546 SG1 568.0 SG2 448.6 THA 72.97 EL1 292.2 EL2 134.6 ALF 63.86

LAUNCH DATE MAR 4 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 212.444

RL 148.35 LAL .00 LOL 163.25 VL 28.667 GAL -12.01 AZL 90.21 HCA 96.67 SMA 137.18 ECC .22275 INC .2096 V1 30.035
 RP 108.67 LAP -.21 LOP 259.92 VP 38.407 GAP -4.70 AZP 89.98 TAL 237.05 TAP 333.73 RCA 106.62 APO 167.74 V2 34.873
 RC 68.274 GL -.88 GP 25.79 ZAL 162.68 ZAP 50.50 ETS 339.30 ZAE 150.35 ETE 51.00 ZAC 116.61 ETC 149.59 CLP -45.06

PLANETOCENTRIC CONIC

C3 44.927 VHL 6.703 DLA -.59 RAL .84 RAD 6568.7 VEL 12.895 PTH 2.35 VHP 5.238 DPA 34.64 RAP 22.00 ECC 1.7394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 43 30 2397.33 -23.54 53.40 235.90 106.21 1 23 27 1797.3 -21.10 45.58
 90.00 12 32 46 5077.99 24.22 224.83 236.33 74.86 13 57 24 4478.0 21.90 216.92
 100.00 2 4 34 2135.83 -24.83 33.75 235.48 107.20 2 40 10 1535.8 -22.24 25.91
 100.00 13 54 23 4814.73 25.51 205.07 235.93 73.87 15 14 38 4214.7 23.05 197.13
 110.00 3 12 11 1924.19 -28.30 16.38 234.17 110.02 3 44 15 1324.2 -25.31 8.48
 110.00 15 3 16 4599.14 29.01 187.46 234.69 71.06 16 19 55 3999.1 26.15 179.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1791 TRA -.4237 TC3 .1772 BAU .2199 SGT 459.4 SGR 594.0 SG3 213.5 ST 187.9 SR 251.2 SS 380.6
 ROE -.2681 RRA .3981 RC3 .3204 FAU .08378 RRT .0508 RRF -.7152 RTF -.0624 CRT .5103 CRS -.7296 CST -.9507
 FDE -.9300 FRA -1.0391 FC3-1.6145 BSP 1455 SGB 750.9 R23 -.0273 R13 -.7152 LSA 461.8 MSA 171.5 SSA 24.2
 BDE .3224 BRA .5814 BC3 .3662 FSP -608 SG1 595.1 SG2 458.0 THA 84.46 EL1 277.5 EL2 146.3 ALF 60.00

LAUNCH DATE MAR 4 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 219.035

RL 148.35 LAL .00 LOL 163.25 VL 28.702 GAL -11.90 AZL 90.40 HCA 99.84 SMA 137.46 ECC .22024 INC .4015 V1 30.035
 RP 108.70 LAP -.40 LOP 263.09 VP 38.424 GAP -4.03 AZP 89.93 TAL 237.50 TAP 337.35 RCA 107.19 APO 167.74 V2 34.862
 RC 70.456 GL -1.70 GP 27.32 ZAL 162.87 ZAP 54.95 ETS 341.49 ZAE 150.36 ETE 57.36 ZAC 114.66 ETC 149.96 CLP -49.73

PLANETOCENTRIC CONIC

C3 44.182 VHL 6.647 DLA -1.44 RAL .94 RAD 6568.7 VEL 12.867 PTH 2.34 VHP 5.012 DPA 35.40 RAP 19.70 ECC 1.7271
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 50 12 2366.80 -22.95 51.36 235.41 107.06 1 29 38 1766.8 -20.40 43.62
 90.00 12 26 52 5100.12 24.60 226.33 236.45 75.52 13 51 53 4500.1 22.37 218.37
 100.00 2 10 52 2106.57 -24.23 31.78 234.97 108.07 2 45 59 1506.6 -21.53 24.02
 100.00 13 48 53 4835.58 25.90 206.50 236.07 74.53 15 9 29 4235.6 23.52 198.50
 110.00 3 17 34 1897.76 -27.67 14.58 233.61 110.92 3 49 12 1297.8 -24.58 6.78
 110.00 14 58 40 4617.16 29.40 188.72 234.87 71.71 16 15 37 4017.2 26.62 180.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1914 TRA -.4556 TC3 .1411 BAU .2292 SGT 465.6 SGR 633.3 SG3 233.0 ST 202.8 SR 231.1 SS 413.7
 ROE -.2367 RRA .4157 RC3 .3615 FAU .09020 RRT -.0578 RRF -.7547 RTF .0695 CRT .4494 CRS -.6939 CST -.9465
 FDE -1.0534 FRA -1.1160 FC3-1.7673 BSP 1584 SGB 786.0 R23 .0246 R13 -.7548 LSA 484.8 MSA 173.4 SSA 24.1
 BDE .3044 BRA .6168 BC3 .3881 FSP -676 SG1 634.6 SG2 463.9 THA 95.23 EL1 263.1 EL2 159.2 ALF 53.12

LAUNCH DATE MAR 4 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 225.585

RL 148.35 LAL .00 LOL 163.25 VL 28.726 GAL -11.79 AZL 90.60 HCA 103.01 SMA 137.66 ECC .21799 INC .5970 V1 30.035
 RP 108.73 LAP -.58 LOP 266.26 VP 38.433 GAP -3.40 AZP 89.87 TAL 237.80 TAP 340.81 RCA 107.65 APO 167.66 V2 34.853
 RC 72.672 GL -2.55 GP 28.87 ZAL 162.92 ZAP 59.51 ETS 343.75 ZAE 150.13 ETE 64.19 ZAC 112.57 ETC 150.49 CLP -54.59

PLANETOCENTRIC CONIC

C3 43.487 VHL 6.594 CLA -2.28 RAL 1.14 RAD 6568.6 VEL 12.839 PTH 2.34 VHP 4.822 DPA 36.09 RAP 17.19 ECC 1.7157
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 57 13 2336.70 -22.33 49.37 235.06 107.88 1 36 10 1736.7 -19.68 41.70
 90.00 12 21 24 5122.23 24.97 227.85 236.69 76.19 13 46 46 4522.2 22.83 219.84
 100.00 2 17 30 2077.73 -23.61 29.87 234.60 108.89 2 52 8 1477.7 -20.81 22.19
 100.00 13 43 48 4856.43 26.27 207.94 236.32 75.20 15 4 45 4256.4 23.98 199.88
 110.00 3 23 18 1871.73 -27.03 12.83 233.19 111.77 3 54 30 1271.7 -23.83 5.12
 110.00 14 54 29 4635.19 29.78 189.99 235.17 72.38 16 11 45 4035.2 27.08 181.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2106 TRA -.4951 TC3 .0951 BAU .2412 SGT 484.3 SGR 674.9 SG3 251.2 ST 224.0 SR 210.0 SS 445.4
 RDE -.2032 RRA .4313 RC3 .4039 FAU .09607 RRT -.1908 RRF -.7886 RTF .2213 CRT .3792 CRS -.6437 CST -.9448
 FDE -1.1752 FRA -1.1785 FC3 -1.9126 BSP 1734 SGB 830.7 R23 .0676 R13 -.7890 LSA 511.7 MSA 173.9 SSA 24.0
 BDE .2926 BRA .6566 BC3 .4149 FSP -737 SG1 686.9 SG2 467.1 THA 104.72 EL1 255.4 EL2 170.4 ALF 40.16

LAUNCH DATE MAR 4 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 232.097

RL 148.35 LAL .00 LOL 163.25 VL 28.740 GAL -11.68 AZL 90.80 HCA 106.18 SMA 137.77 ECC .21595 INC .7974 V1 30.035
 RP 108.76 LAP -.77 LOP 269.43 VP 38.435 GAP -2.80 AZP 89.78 TAL 237.96 TAP 344.13 RCA 108.02 APO 167.53 V2 34.844
 RC 74.919 GL -3.43 GP 30.42 ZAL 162.85 ZAP 64.16 ETS 346.12 ZAE 149.61 ETE 71.31 ZAC 110.36 ETC 151.18 CLP -59.64

PLANETOCENTRIC CONIC

C3 42.831 VHL 6.545 CLA -3.12 RAL 1.42 RAD 6568.6 VEL 12.814 PTH 2.33 VHP 4.668 DPA 36.69 RAP 14.50 ECC 1.7049
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 4 37 2306.76 -21.69 47.41 234.82 108.66 1 43 4 1706.8 -18.95 39.81
 90.00 12 16 17 5144.52 25.32 229.39 237.04 76.89 13 42 2 4544.5 23.27 221.32
 100.00 2 24 30 2049.06 -22.96 27.98 234.35 109.69 2 58 39 1449.1 -20.07 20.38
 100.00 13 39 5 4877.44 26.63 209.39 236.69 75.89 15 0 23 4277.4 24.42 201.29
 110.00 3 29 24 1845.89 -26.36 11.11 232.90 112.59 4 0 10 1245.9 -23.07 3.50
 110.00 14 50 41 4653.38 30.14 191.27 235.58 73.06 16 8 14 4053.4 27.53 183.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2361 TRA -.5406 TC3 .0399 BAU .2570 SGT 519.7 SGR 718.0 SG3 268.0 ST 250.9 SR 188.2 SS 476.4
 RDE -.1673 RRA .4445 RC3 .4470 FAU .10127 RRT -.3320 RRF -.8174 RTF .3746 CRT .2897 CRS -.5708 CST -.9449
 FDE -1.2948 FRA -1.2256 FC3 -2.0469 BSP 1928 SGB 886.4 R23 .0988 R13 -.8188 LSA 543.0 MSA 172.8 SSA 23.9
 BDE .2894 BRA .6998 BC3 .4487 FSP -793 SG1 753.1 SG2 467.4 THA 112.63 EL1 261.9 EL2 172.6 ALF 22.41

LAUNCH DATE MAR 4 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 238.569

RL 148.35 LAL .00 LOL 163.25 VL 28.746 GAL -11.57 AZL 91.00 HCA 109.34 SMA 137.82 ECC .21408 INC 1.0041 V1 30.035
 RP 108.78 LAP -.95 LOP 272.59 VP 38.432 GAP -2.23 AZP 89.67 TAL 237.97 TAP 347.32 RCA 108.32 APO 167.33 V2 34.835
 RC 77.194 GL -4.36 GP 31.95 ZAL 162.64 ZAP 68.85 ETS 348.61 ZAE 148.77 ETE 78.52 ZAC 108.09 ETC 152.02 CLP -64.83

PLANETOCENTRIC CONIC

C3 42.208 VHL 6.497 CLA -3.97 RAL 1.80 RAD 6568.6 VEL 12.790 PTH 2.33 VHP 4.548 DPA 37.20 RAP 11.68 ECC 1.6946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 12 27 2276.70 -21.03 45.45 234.71 109.42 1 50 24 1676.7 -18.19 37.93
 90.00 12 11 28 5167.19 25.66 230.96 237.50 77.60 13 37 35 4567.2 23.70 222.84
 100.00 2 31 56 2020.29 -22.29 26.11 234.22 110.45 3 5 36 1420.3 -19.30 18.58
 100.00 13 34 40 4898.82 26.97 210.89 237.16 76.60 14 56 19 4298.8 24.86 202.73
 110.00 3 35 55 1819.99 -25.68 9.41 232.72 113.38 4 6 15 1220.0 -22.29 1.90
 110.00 14 47 10 4671.89 30.50 192.60 236.10 73.76 16 5 2 4071.9 27.98 184.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2682 TRA -.5908 TC3 -.0235 BAU .2771 SGT 574.2 SGR 762.1 SG3 282.8 ST 283.7 SR 166.8 SS 507.4
 RDE -.1287 RRA .4550 RC3 .4905 FAU .10568 RRT -.4632 RRF -.8420 RTF .5111 CRT .1674 CRS -.4617 CST -.9463
 FDE -1.4113 FRA -1.2570 FC3 -2.1677 BSP 2181 SGB 954.2 R23 .1198 R13 -.8445 LSA 579.7 MSA 170.5 SSA 23.7
 BDE .2975 BRA .7457 BC3 .4310 FSP -850 SG1 832.9 SG2 465.6 THA 119.11 EL1 285.8 EL2 163.2 ALF 8.37

LAUNCH DATE MAR 4 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 245.003

RL 148.35 LAL .00 LOL 163.25 VL 28.743 GAL -11.46 AZL 91.22 HCA 112.51 SMA 137.80 ECC .21234 INC 1.2190 V1 30.035
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.423 GAP -1.68 AZP 89.53 TAL 237.86 TAP 350.37 RCA 108.54 APO 167.06 V2 34.827
 RC 79.493 GL -5.33 GP 33.44 ZAL 162.29 ZAP 73.51 ETS 351.23 ZAE 147.60 ETE 85.58 ZAC 105.81 ETC 152.97 CLP -70.12

PLANETOCENTRIC CONIC

C3 41.612 VHL 6.451 CLA -4.83 RAL 2.27 RAD 6568.6 VEL 12.766 PTH 2.32 VHP 4.461 DPA 37.62 RAP 8.80 ECC 1.6848
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 20 47 2246.21 -20.32 43.49 234.71 110.15 1 58 13 1646.2 -17.40 36.04
 90.00 12 6 51 5190.50 25.99 232.59 238.07 78.35 13 33 22 4590.5 24.13 224.41
 100.00 2 39 51 1991.14 -21.58 24.23 234.20 111.20 3 13 2 1391.1 -18.51 16.78
 100.00 13 30 28 4920.81 27.31 212.44 237.75 77.35 14 52 29 4320.8 25.29 204.22
 110.00 3 42 53 1793.78 -24.96 7.72 232.67 114.15 4 12 47 1193.8 -21.48 .29
 110.00 14 43 55 4690.92 30.86 193.97 236.73 74.50 16 2 6 4090.9 28.42 185.61

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3079 TRA -.6456 TC3 -.0953 BAU .3011 SGT 648.9 SGR 804.8 SG3 294.9 ST 323.4 SR 147.8 SS 537.0
 RDE -.0885 RRA .4615 RC3 .5327 FAU .10896 RRT -.5740 RRF -.8623 RTF .6226 CRT .0025 CRS -.3030 CST -.9490
 FDE -1.5184 FRA -1.2676 FC3 -2.2668 BSP 2476 SGB 1033.8 R23 .1345 R13 -.8659 LSA 621.6 MSA 167.0 SSA 23.5
 BDE .3203 BRA .7936 BC3 .5412 FSP -898 SG1 924.6 SG2 462.5 THA 124.64 EL1 323.4 EL2 147.8 ALF .08

LAUNCH DATE MAR 4 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 251.399

RL 148.35 LAL .00 LOL 163.25 VL 28.734 GAL -11.34 AZL 91.44 HCA 115.67 SMA 137.72 ECC .21072 INC 1.4439 VI 30.035
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.409 GAP -1.17 AZP 89.37 TAL 237.63 TAP 353.30 RCA 108.70 APO 166.75 V2 34.820
 RC 81.813 GL -6.36 GP 34.87 ZAL 161.82 ZAP 78.11 ETS 353.98 ZAE 146.11 ETE 92.32 ZAC 103.54 ETC 154.00 CLP -75.46

PLANETOCENTRIC CONIC

C3 41.041 VHL 6.406 DLA -5.71 RAL 2.83 RAD 6568.6 VEL 12.744 PTH 2.32 VHP 4.406 DPA 37.97 RAP 5.93 ECC 1.6754
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 29 42 2214.98 -19.58 41.51 234.83 110.88 2 6 37 1615.0 -16.57 34.13
 90.00 12 2 23 5214.76 26.32 234.29 238.75 79.15 13 29 18 4614.8 24.55 226.07
 100.00 2 48 20 1961.29 -20.84 22.33 234.30 111.93 3 21 1 1361.3 -17.68 14.96
 100.00 13 26 26 4943.68 27.64 214.06 238.45 78.14 14 48 50 4343.7 25.73 205.78
 110.00 3 50 23 1767.00 -24.20 6.01 232.72 114.91 4 19 50 1167.0 -20.64 358.67
 110.00 14 40 52 4710.73 31.21 195.40 237.48 75.29 15 59 23 4110.7 28.87 186.98

DIFFERENTIAL CORRECTIONS

TDE -.3560 TRA -.7041 TC3 -.1754 BAU .3280
 RDE -.0483 RRA .4621 RC3 .5715 FAU .11072
 FDE -1.6081 FRA -1.2516 FC3 -2.3357 BSP 2792
 BDE .3593 BRA .8422 BC3 .5978 FSP -927

MID-COURSE EXECUTION ACCURACY

SGT 743.3 SGR 842.9 SG3 302.9
 RRT -.6602 RRF -.8786 RTF .7071
 SGB 1123.8 R23 .1460 R13 -.8828
 SG1 1026.0 SG2 458.7 THA 129.59

ORBIT DETERMINATION ACCURACY

ST 370.8 SR 133.7 SS 563.4
 CRT -.2024 CRS -.0918 CST -.9524
 LSA 667.7 MSA 162.6 SSA 23.3
 EL1 371.9 EL2 130.5 ALF 175.24

LAUNCH DATE MAR 4 1969

FLIGHT TIME 88.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 257.758

RL 148.35 LAL .00 LOL 163.25 VL 28.718 GAL -11.22 AZL 91.68 HCA 118.83 SMA 137.59 ECC .20919 INC 1.6808 VI 30.035
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.391 GAP -.67 AZP 89.19 TAL 237.28 TAP 356.11 RCA 108.81 APO 166.38 V2 34.813
 RC 84.153 GL -7.46 GP 36.25 ZAL 161.21 ZAP 82.58 ETS 356.85 ZAE 144.34 ETE 98.58 ZAC 101.35 ETC 155.08 CLP -80.78

PLANETOCENTRIC CONIC

C3 40.497 VHL 6.364 DLA -6.63 RAL 3.48 RAD 6568.6 VEL 12.723 PTH 2.31 VHP 4.382 DPA 38.26 RAP 3.12 ECC 1.6665
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 39 17 2182.64 -18.78 39.47 235.06 111.59 2 15 40 1582.6 -15.68 32.16
 90.00 11 57 58 5240.36 26.63 236.10 239.56 80.00 13 25 19 4640.4 24.98 227.82
 100.00 2 57 29 1930.42 -20.04 20.38 234.52 112.66 3 29 39 1330.4 -16.79 13.09
 100.00 13 22 28 4967.82 27.97 215.78 239.28 78.99 14 45 16 4367.8 26.16 207.44
 110.00 3 58 30 1739.36 -23.40 4.26 232.90 115.66 4 27 29 1139.4 -19.75 357.02
 110.00 14 37 57 4731.64 31.56 196.93 238.37 76.13 15 56 48 4131.6 29.33 188.43

DIFFERENTIAL CORRECTIONS

TDE -.4119 TRA -.7639 TC3 -.2613 BAU .3582
 RDE -.0067 RRA .4581 RC3 .6078 FAU .11131
 FDE -1.6869 FRA -1.2175 FC3 -2.3795 BSP 3156
 BDE .4120 BRA .8907 BC3 .6616 FSP -952

MID-COURSE EXECUTION ACCURACY

SGT 853.0 SGR 878.0 SG3 307.9
 RRT -.7244 RRF -.8924 RTF .7681
 SGB 1224.1 R23 .1552 R13 -.8964
 SG1 1136.7 SG2 454.1 THA 133.86

ORBIT DETERMINATION ACCURACY

ST 425.2 SR 126.8 SS 589.5
 CRT -.4427 CRS .1733 CST -.9560
 LSA 720.4 MSA 157.5 SSA 22.9
 EL1 429.2 EL2 112.7 ALF 171.92

LAUNCH DATE MAR 4 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 264.082

RL 148.35 LAL .00 LOL 163.25 VL 28.696 GAL -11.10 AZL 91.93 HCA 121.99 SMA 137.41 ECC .20774 INC 1.9326 VI 30.035
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.369 GAP -.20 AZP 88.98 TAL 236.83 TAP 358.81 RCA 108.87 APO 165.96 V2 34.807
 RC 86.508 GL -8.64 GP 37.57 ZAL 160.47 ZAP 86.86 ETS 359.82 ZAE 142.35 ETE 104.28 ZAC 99.26 ETC 156.17 CLP -86.04

PLANETOCENTRIC CONIC

C3 39.983 VHL 6.323 DLA -7.59 RAL 4.22 RAD 6568.5 VEL 12.702 PTH 2.31 VHP 4.387 DPA 38.53 RAP .42 ECC 1.6580
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 42 2148.80 -17.92 37.36 235.42 112.30 2 25 30 1548.8 -14.74 30.13
 90.00 11 53 31 5267.75 26.94 238.04 240.50 80.93 13 21 18 4667.8 25.41 229.71
 100.00 3 7 23 1898.16 -19.18 18.37 234.86 113.38 3 39 1 1298.2 -15.85 11.16
 100.00 13 18 30 4993.63 28.29 217.63 240.24 79.91 14 41 44 4393.6 26.60 209.23
 110.00 4 7 18 1710.56 -22.53 2.47 233.19 116.41 4 35 49 1110.6 -18.80 355.32
 110.00 14 35 5 4753.99 31.91 198.58 239.39 77.04 15 54 19 4154.0 29.80 190.00

DIFFERENTIAL CORRECTIONS

TDE -.4765 TRA -.8240 TC3 -.3523 BAU .3899
 RDE .0344 RRA .4474 RC3 .6387 FAU .11032
 FDE -1.7458 FRA -1.1590 FC3 -2.3888 BSP 3532
 BDE .4778 BRA .9376 BC3 .7295 FSP -958

MID-COURSE EXECUTION ACCURACY

SGT 975.9 SGR 906.0 SG3 308.5
 RRT -.7707 RRF -.9035 RTF .8113
 SGB 1331.6 R23 .1641 R13 -.9066
 SG1 1253.4 SG2 449.4 THA 137.76

ORBIT DETERMINATION ACCURACY

ST 487.5 SR 128.9 SS 612.5
 CRT -.6606 CRS .4346 CST -.9597
 LSA 778.4 MSA 152.1 SSA 22.5
 EL1 495.2 EL2 95.3 ALF 169.71

LAUNCH DATE MAR 4 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 270.371

RL 148.35 LAL .00 LOL 163.25 VL 28.669 GAL -10.97 AZL 92.20 HCA 125.14 SMA 137.19 ECC .20635 INC 2.2022 VI 30.035
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.344 GAP .24 AZP 88.73 TAL 236.28 TAP 1.42 RCA 108.88 APO 165.50 V2 34.802
 RC 88.877 GL -9.91 GP 38.85 ZAL 159.58 ZAP 90.92 ETS 2.89 ZAE 140.19 ETE 109.38 ZAC 97.31 ETC 157.23 CLP -91.18

PLANETOCENTRIC CONIC

C3 39.507 VHL 6.285 DLA -8.61 RAL 5.06 RAD 6568.5 VEL 12.684 PTH 2.30 VHP 4.420 DPA 38.81 RAP 357.87 ECC 1.6502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 1 3 2113.01 -16.98 35.15 235.91 113.01 2 36 16 1513.0 -13.72 27.99
 90.00 11 48 53 5297.50 27.24 240.17 241.59 81.96 13 17 11 4697.5 25.85 231.78
 100.00 3 18 13 1864.08 -18.25 16.27 235.33 114.10 3 49 17 1264.1 -14.84 9.14
 100.00 13 14 25 5021.65 28.61 219.65 241.36 80.93 14 38 6 4421.7 27.06 211.19
 110.00 4 16 56 1680.24 -21.60 .61 233.61 117.16 4 44 56 1080.2 -17.79 353.55
 110.00 14 32 11 4778.26 32.27 200.38 240.57 78.06 15 51 50 4178.3 30.29 191.73

DIFFERENTIAL CORRECTIONS

TDE -.5496 TRA -.8822 TC3 -.4462 BAU .4232
 RDE .0762 RRA .4315 RC3 .6655 FAU .10816
 FDE -1.7911 FRA -1.0851 FC3 -2.3703 BSP 3938
 BDE .5549 BRA .9821 BC3 .8013 FSP -958

MID-COURSE EXECUTION ACCURACY

SGT 1107.8 SGR 929.0 SG3 306.0
 RRT -.8043 RRF -.9131 RTF .8419
 SGB 1445.7 R23 .1727 R13 -.9147
 SG1 1375.7 SG2 444.5 THA 141.20

ORBIT DETERMINATION ACCURACY

ST 557.5 SR 140.4 SS 634.9
 CRT -.8224 CRS .6494 CST -.9632
 LSA 843.6 MSA 146.5 SSA 22.0
 EL1 569.6 EL2 78.2 ALF 168.07

LAUNCH DATE MAR 4 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 276.627

RL 148.35 LAL .00 LOL 163.25 VL 28.637 GAL -10.83 AZL 92.49 MCA 128.30 SMA 136.93 ECC .20502 INC 2.4935 V1 30.035
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.316 GAP .67 AZP 88.45 TAL 235.63 TAP 3.93 RCA 108.86 APO 165.01 V2 34.797
 RC 91.256 GL -11.29 GP 40.10 ZAL 158.54 ZAP 94.71 ETS 6.05 ZAE 137.92 ETE 113.90 ZAC 95.51 ETC 158.24 CLP -96.16

PLANETOCENTRIC CONIC

C3 39.079 VHL 6.251 CLA -9.70 RAL 6.02 RAD 6568.5 VEL 12.667 PTH 2.30 VHP 4.481 DPA 39.14 RAP 355.48 ECC 1.6431
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 34 2074.71 -15.95 32.82 236.55 113.71 2 48 9 1474.7 -12.61 25.73
 90.00 11 43 58 5330.28 27.53 242.52 242.85 83.10 13 12 48 4730.3 26.29 234.08
 100.00 3 30 8 1827.70 -17.22 14.06 235.95 114.82 4 0 36 1227.7 -13.73 7.00
 100.00 13 10 5 5052.52 28.92 221.89 242.64 82.07 14 34 18 4452.5 27.52 213.37
 110.00 4 27 31 1648.02 -20.59 358.66 234.18 117.91 4 54 59 1048.0 -16.70 351.70
 110.00 14 29 11 4804.97 32.63 202.38 241.93 79.19 15 49 16 4205.0 30.79 193.64

DIFFERENTIAL CORRECTIONS

TDE -.6317 TRA -.9370 TC3 -.5416 BAU .4567
 RDE .1174 RRA .4090 RC3 .6861 FAU .10468
 FDE-1.8179 FRA -.9932 FC3-2.3191 BSP 4343
 BDE .6425 BRA 1.0224 BC3 .8741 FSP -941

MID-COURSE EXECUTION ACCURACY

SGT 1246.2 SGR 944.5 SG3 299.7
 RRT -.8280 RRF -.9210 RTF .8634
 SGB 1563.7 R23 .1821 R13 -.9205
 SG1 1500.5 SG2 439.8 THA 144.36

ORBIT DETERMINATION ACCURACY

ST 635.6 SR 159.0 SS 654.8
 CRT -.9172 CRS .7930 CST -.9664
 LSA 915.2 MSA 141.1 SSA 21.4
 EL1 652.3 EL2 61.7 ALF 166.96

LAUNCH DATE MAR 4 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 282.851

RL 148.35 LAL .00 LOL 163.25 VL 28.601 GAL -10.69 AZL 92.81 MCA 131.45 SMA 136.64 ECC .20374 INC 2.8113 V1 30.035
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.285 GAP 1.08 AZP 88.14 TAL 234.91 TAP 6.36 RCA 108.80 APO 164.48 V2 34.793
 RC 93.644 GL -12.80 GP 41.37 ZAL 157.33 ZAP 98.20 ETS 9.28 ZAE 135.55 ETE 117.86 ZAC 93.88 ETC 159.17 CLP -100.95

PLANETOCENTRIC CONIC

C3 38.715 VHL 6.222 CLA -10.89 RAL 7.08 RAD 6568.5 VEL 12.652 PTH 2.30 VHP 4.569 DPA 39.56 RAP 353.26 ECC 1.6371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 27 28 2033.28 -14.80 30.32 237.36 114.42 3 1 22 1433.3 -11.38 23.31
 90.00 11 38 34 5366.98 27.80 245.17 244.30 84.41 13 8 1 4767.0 26.74 236.67
 100.00 3 43 22 1788.44 -16.08 11.69 236.74 115.54 4 13 10 1188.4 -12.51 4.72
 100.00 13 5 22 5087.05 29.21 224.41 244.13 83.37 14 30 9 4487.1 27.99 215.83
 110.00 4 39 15 1613.44 -19.47 356.59 234.92 118.66 5 6 8 1013.4 -15.50 349.73
 110.00 14 25 58 4834.83 32.99 204.64 243.50 80.48 15 46 33 4234.8 31.32 195.81

DIFFERENTIAL CORRECTIONS

TDE -.7238 TRA -.9870 TC3 -.6367 BAU .4906
 RDE .1601 RRA .3819 RC3 .7022 FAU .10035
 FDE-1.8345 FRA -.8932 FC3-2.2440 BSP 4778
 BDE .7413 BRA 1.0584 BC3 .9478 FSP -921

MID-COURSE EXECUTION ACCURACY

SGT 1388.8 SGR 955.8 SG3 291.1
 RRT -.8453 RRF -.9282 RTF .8791
 SGB 1685.9 R23 .1919 R13 -.9252
 SG1 1628.7 SG2 435.4 THA 147.17

ORBIT DETERMINATION ACCURACY

ST 722.5 SR 184.3 SS 675.0
 CRT -.9668 CRS .8829 CST -.9696
 LSA 996.3 MSA 136.2 SSA 20.5
 EL1 744.2 EL2 45.7 ALF 166.09

LAUNCH DATE MAR 4 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 289.045

RL 148.35 LAL .00 LOL 163.25 VL 28.561 GAL -10.54 AZL 93.16 MCA 134.60 SMA 136.32 ECC .20250 INC 3.1614 V1 30.035
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.252 GAP 1.46 AZP 87.78 TAL 234.10 TAP 8.70 RCA 108.72 APO 163.93 V2 34.789
 RC 96.038 GL -14.46 GP 42.68 ZAL 155.95 ZAP 101.35 ETS 12.60 ZAE 133.13 ETE 121.30 ZAC 92.40 ETC 160.02 CLP -105.53

PLANETOCENTRIC CONIC

C3 38.436 VHL 6.200 CLA -12.19 RAL 8.28 RAD 6568.5 VEL 12.641 PTH 2.29 VHP 4.685 DPA 40.10 RAP 351.19 ECC 1.6326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 43 6 1987.92 -13.50 27.62 238.39 115.13 3 16 14 1387.9 -10.01 20.68
 90.00 11 32 30 5408.70 28.04 248.20 245.98 85.91 13 2 39 4808.7 27.18 239.64
 100.00 3 58 12 1745.59 -14.81 9.15 237.74 116.27 4 27 18 1145.6 -11.16 2.26
 100.00 13 0 5 5126.26 29.49 227.30 245.85 84.86 14 25 31 4526.3 28.46 218.64
 110.00 4 52 22 1575.94 -18.24 354.39 235.85 119.43 5 18 38 975.9 -14.18 347.63
 110.00 14 22 24 4868.68 33.34 207.22 245.33 81.97 15 43 32 4268.7 31.87 198.30

DIFFERENTIAL CORRECTIONS

TDE -.8266 TRA -1.0302 TC3 -.7289 BAU .5233
 RDE .2025 RRA .3481 RC3 .7112 FAU .09497
 FDE-1.8353 FRA -.7808 FC3-2.1390 BSP 5192
 BDE .8511 BRA 1.0874 BC3 1.0184 FSP -884

MID-COURSE EXECUTION ACCURACY

SGT 1532.8 SGR 959.7 SG3 279.4
 RRT -.8570 RRF -.9343 RTF .8902
 SGB 1808.4 R23 .2030 R13 -.9284
 SG1 1756.2 SG2 431.6 THA 149.76

ORBIT DETERMINATION ACCURACY

ST 818.4 SR 213.3 SS 693.1
 CRT -.9887 CRS .9350 CST -.9724
 LSA 1085.2 MSA 132.0 SSA 19.4
 EL1 845.1 EL2 31.0 ALF 165.53

LAUNCH DATE MAR 4 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 295.209

RL 148.35 LAL .00 LOL 163.25 VL 28.517 GAL -10.39 AZL 93.55 MCA 137.75 SMA 135.98 ECC .20132 INC 3.5518 V1 30.035
 RP 108.94 LAP -2.39 LOP 301.05 VP 38.217 GAP 1.83 AZP 87.37 TAL 233.22 TAP 10.97 RCA 108.60 APO 163.35 V2 34.787
 RC 98.436 GL -16.31 GP 44.07 ZAL 154.36 ZAP 104.15 ETS 16.01 ZAE 130.66 ETE 124.27 ZAC 91.08 ETC 160.77 CLP -109.90

PLANETOCENTRIC CONIC

C3 38.276 VHL 6.187 CLA -13.63 RAL 9.62 RAD 6568.5 VEL 12.635 PTH 2.29 VHP 4.830 DPA 40.80 RAP 349.24 ECC 1.6299
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 51 1937.59 -12.03 24.65 239.67 115.83 3 33 9 1337.6 -8.46 17.80
 90.00 11 25 27 5456.92 28.23 251.72 247.93 87.66 12 56 24 4856.9 27.60 243.11
 100.00 4 15 2 1698.25 -13.36 6.38 238.99 116.99 4 43 20 1098.3 -9.64 359.57
 100.00 12 53 58 5171.49 29.72 230.64 247.85 86.61 14 20 9 4571.5 28.93 221.92
 110.00 5 7 11 1534.89 -16.85 352.02 237.02 120.19 5 32 46 934.9 -12.71 345.36
 110.00 14 18 18 4907.61 33.67 210.21 247.45 83.71 15 40 5 4307.6 32.43 201.19

DIFFERENTIAL CORRECTIONS

TDE -.9428 TRA -1.0658 TC3 -.8173 BAU .5558
 RDE .2476 RRA .3101 RC3 .7154 FAU .08909
 FDE-1.8299 FRA -.6672 FC3-2.0149 BSP 5635
 BDE .9747 BRA 1.1100 BC3 1.0862 FSP -848

MID-COURSE EXECUTION ACCURACY

SGT 1678.3 SGR 961.0 SG3 266.2
 RRT -.8653 RRF -.9401 RTF .8987
 SGB 1934.0 R23 .2144 R13 -.9310
 SG1 1885.8 SG2 428.8 THA 152.07

ORBIT DETERMINATION ACCURACY

ST 925.2 SR 247.2 SS 712.3
 CRT -.9967 CRS .9654 CST -.9751
 LSA 1186.4 MSA 128.9 SSA 18.1
 EL1 957.5 EL2 19.5 ALF 165.08

LAUNCH DATE MAR 4 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 301.345

RL 148.35 LAL .00 LOL 163.25 VL 28.471 GAL -10.23 AZL 93.99 HCA 140.90 SMA 135.61 ECC .20017 INC 3.9924 VI 30.035
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.181 GAP 2.19 AZP 86.90 TAL 232.27 TAP 13.17 RCA 108.46 APO 162.75 V2 34.785
 RC 100.837 GL -18.38 GP 45.59 ZAL 152.54 ZAP 106.57 ETS 19.54 ZAE 128.14 ETE 126.83 ZAC 89.89 ETC 161.43 CLP-114.05

PLANETOCENTRIC CONIC

C3 38.278 VHL 6.187 DLA -15.24 RAL 11.13 RAD 6568.5 VEL 12.635 PTH 2.29 VHP 5.008 DPA 41.68 RAP 347.35 ECC 1.6300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 20 1880.91 -10.33 21.36 241.27 116.51 3 52 41 1280.9 -6.68 14.58
 90.00 11 17 2 5513.62 28.32 255.86 250.20 89.74 12 48 56 4913.6 27.98 247.22
 100.00 4 34 22 1645.26 -11.71 3.32 240.55 117.70 5 1 47 1045.3 -7.91 356.59
 100.00 12 46 41 5224.51 29.87 234.57 250.18 88.67 14 13 46 4624.5 29.36 225.81
 110.00 5 24 6 1489.48 -15.27 349.44 238.49 120.96 5 48 56 889.5 -11.06 342.87
 110.00 14 13 27 4953.05 33.95 213.73 249.95 85.77 15 36 0 4353.1 32.99 204.62

DIFFERENTIAL CORRECTIONS

TDE-1.0741 TRA-1.0912 TC3 -.8980 BAU .5863
 ROE .2937 RRA .2653 RC3 .7116 FAU .08249
 FDE-1.8133 FRA -.5479 FC3-1.8656 BSP 6049
 BDE 1.1136 BRA 1.1230 BC3 1.1458 FSP -798

MID-COURSE EXECUTION ACCURACY

SGT 1822.4 SGR 956.1 SG3 250.8
 RRT -.8699 RRF -.9452 RTF .9048
 SGB 2058.0 R23 .2268 R13 -.9328
 SG1 2013.2 SG2 426.9 THA 154.23

ORBIT DETERMINATION ACCURACY

ST 1043.7 SR 283.7 SS 730.4
 CRT -.9976 CRS .9825 CST -.9775
 LSA 1298.8 MSA 127.1 SSA 16.5
 EL1 1081.4 EL2 18.9 ALF 164.82

LAUNCH DATE MAR 4 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 307.453

RL 148.35 LAL .00 LOL 163.25 VL 28.422 GAL -10.06 AZL 94.50 HCA 144.05 SMA 135.22 ECC .19907 INC 4.4969 VI 30.035
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.143 GAP 2.52 AZP 86.36 TAL 231.26 TAP 15.30 RCA 108.30 APO 162.14 V2 34.784
 RC 103.240 GL -20.71 GP 47.28 ZAL 150.45 ZAP 108.58 ETS 23.19 ZAE 125.55 ETE 129.05 ZAC 88.79 ETC 162.01 CLP-118.01

PLANETOCENTRIC CONIC

C3 38.508 VHL 6.206 DLA -17.05 RAL 12.85 RAD 6568.5 VEL 12.644 PTH 2.30 VHP 5.224 DPA 42.77 RAP 345.46 ECC 1.6338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 24 1815.94 -8.33 17.63 243.30 117.16 4 15 40 1215.9 -4.62 10.92
 90.00 11 6 38 5581.62 28.24 260.84 252.85 92.23 12 39 40 4981.6 28.25 252.17
 100.00 4 56 58 1585.01 -9.78 359.89 242.53 118.39 5 23 23 985.0 -5.91 353.23
 100.00 12 37 45 5287.79 29.87 239.28 252.91 91.15 14 5 53 4687.8 29.71 230.48
 110.00 5 43 40 1438.68 -13.47 346.60 240.35 121.72 6 7 39 838.7 -9.18 340.13
 110.00 14 7 32 5006.88 34.14 217.92 252.88 88.25 15 30 59 4406.9 33.52 208.73

DIFFERENTIAL CORRECTIONS

TDE-1.2259 TRA-1.1054 TC3 -.9694 BAU .6160
 ROE .3435 RRA .2154 RC3 .7012 FAU .07562
 FDE-1.7929 FRA -.4312 FC3-1.7000 BSP 6489
 BDE 1.2731 BRA 1.1262 BC3 1.1964 FSP -750

MID-COURSE EXECUTION ACCURACY

SGT 1966.8 SGR 949.3 SG3 234.5
 RRT -.8720 RRF -.9501 RTF .9099
 SGB 2184.0 R23 .2390 R13 -.9345
 SG1 2141.9 SG2 426.7 THA 156.17

ORBIT DETERMINATION ACCURACY

ST 1176.9 SR 324.3 SS 749.8
 CRT -.9955 CRS .9921 CST -.9800
 LSA 1426.9 MSA 126.7 SSA 14.7
 EL1 1220.4 EL2 29.8 ALF 164.65

LAUNCH DATE MAR 4 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 313.535

RL 148.35 LAL .00 LOL 163.25 VL 28.371 GAL -9.88 AZL 95.08 HCA 147.19 SMA 134.82 ECC .19802 INC 5.0840 VI 30.035
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.105 GAP 2.85 AZP 85.72 TAL 230.18 TAP 17.37 RCA 108.13 APO 161.52 V2 34.783
 RC 105.643 GL -23.35 GP 49.19 ZAL 148.05 ZAP 110.15 ETS 27.01 ZAE 122.87 ETE 130.98 ZAC 87.74 ETC 162.55 CLP-121.81

PLANETOCENTRIC CONIC

C3 39.064 VHL 6.250 DLA -19.10 RAL 14.80 RAD 6568.5 VEL 12.666 PTH 2.30 VHP 5.487 DPA 44.10 RAP 343.47 ECC 1.6429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 21 1739.64 -5.93 13.31 245.92 117.74 4 43 20 1139.6 -2.17 6.64
 90.00 10 53 17 5665.17 27.86 266.92 255.94 95.25 12 27 42 5065.2 28.30 258.28
 100.00 5 23 55 1515.12 -7.49 355.96 245.07 119.02 5 49 10 915.1 -3.56 349.37
 100.00 12 26 24 5364.92 29.63 245.00 256.10 94.15 13 55 49 4764.9 29.89 236.20
 110.00 6 6 41 1381.11 -11.39 343.44 242.72 122.45 6 29 42 781.1 -7.03 337.07
 110.00 14 0 7 5071.69 34.16 222.98 256.36 91.24 15 24 39 4471.7 33.96 213.74

DIFFERENTIAL CORRECTIONS

TDE-1.4038 TRA-1.1056 TC3-1.0267 BAU .6435
 ROE .3967 RRA .1587 RC3 .6813 FAU .06841
 FDE-1.7674 FRA -.3171 FC3-1.5162 BSP 6931
 BDE 1.4588 BRA 1.1170 BC3 1.2322 FSP -698

MID-COURSE EXECUTION ACCURACY

SGT 2110.4 SGR 938.7 SG3 217.1
 RRT -.8713 RRF -.9543 RTF .9143
 SGB 2309.7 R23 .2509 R13 -.9361
 SG1 2269.7 SG2 428.3 THA 157.99

ORBIT DETERMINATION ACCURACY

ST 1327.1 SR 367.4 SS 769.8
 CRT -.9922 CRS .9970 CST -.9824
 LSA 1572.3 MSA 127.7 SSA 12.8
 EL1 1376.3 EL2 44.3 ALF 164.62

LAUNCH DATE MAR 4 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 319.592

RL 148.35 LAL .00 LOL 163.25 VL 28.317 GAL -9.70 AZL 95.78 HCA 150.33 SMA 134.41 ECC .19700 INC 5.7805 VI 30.035
 RP 108.95 LAP -2.86 LOP 313.70 VP 38.065 GAP 3.16 AZP 84.97 TAL 229.05 TAP 19.38 RCA 107.93 APO 160.89 V2 34.783
 RC 108.045 GL -26.36 GP 51.38 ZAL 145.27 ZAP 111.25 ETS 31.04 ZAE 120.06 ETE 132.71 ZAC 86.70 ETC 163.10 CLP-125.51

PLANETOCENTRIC CONIC

C3 40.098 VHL 6.332 DLA -21.44 RAL 17.06 RAD 6568.5 VEL 12.707 PTH 2.31 VHP 5.810 DPA 45.68 RAP 341.27 ECC 1.6599
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 25 1646.59 -2.96 8.08 249.35 118.17 5 17 52 1046.6 .83 1.45
 90.00 10 35 12 5771.40 26.97 274.56 259.49 98.98 12 11 23 5171.4 27.93 266.03
 100.00 5 57 1 1431.67 -4.71 351.32 248.38 119.55 6 20 53 831.7 -.74 344.79
 100.00 12 11 17 5461.56 28.94 252.10 259.82 97.82 13 42 19 4861.6 29.72 243.38
 110.00 6 34 17 1314.84 -8.95 339.87 245.78 123.13 6 56 12 714.8 -4.52 333.57
 110.00 13 50 30 5151.15 33.87 229.17 260.46 94.89 15 16 22 4551.2 34.18 219.93

DIFFERENTIAL CORRECTIONS

TDE-1.6154 TRA-1.0871 TC3-1.0637 BAU .6677
 ROE .4516 RRA .0920 RC3 .6480 FAU .06082
 FDE-1.7340 FRA -.2032 FC3-1.3130 BSP 7332
 BDE 1.6774 BRA 1.0910 BC3 1.2456 FSP -635

MID-COURSE EXECUTION ACCURACY

SGT 2251.2 SGR 921.2 SG3 198.3
 RRT -.8668 RRF -.9573 RTF .9180
 SGB 2432.4 R23 .2625 R13 -.9374
 SG1 2393.7 SG2 432.1 THA 159.79

ORBIT DETERMINATION ACCURACY

ST 1496.2 SR 410.2 SS 788.6
 CRT -.9885 CRS .9992 CST -.9846
 LSA 1735.5 MSA 130.1 SSA 10.9
 EL1 1550.3 EL2 59.8 ALF 164.81

LAUNCH DATE MAR 4 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 325.622

RL 148.35 LAL .00 LOL 163.25 VL 28.262 GAL -9.50 AZL 96.63 HCA 153.47 SMA 133.98 ECC .19603 INC 6.6253 V1 30.035
 RP 108.94 LAP -2.95 LOP 316.87 VP 38.025 GAP 3.45 AZP 84.07 TAL 227.86 TAP 21.33 RCA 107.72 APO 160.25 V2 34.784
 RC 110.446 GL -29.81 GP 53.92 ZAL 142.04 ZAP 111.84 ETS 35.32 ZAE 117.05 ETE 134.35 ZAC 85.60 ETC 163.71 CLP-129.18

PLANETOCENTRIC CONIC

C3 41.854 VHL 6.469 DLA -24.11 RAL 19.69 RAD 6568.6 VEL 12.776 PTH 2.32 VHP 6.216 DPA 47.52 RAP 338.68 ECC 1.6888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 38 17 1524.70 .97 1.28 254.04 118.30 6 3 42 924.7 4.75 354.64
 90.00 10 8 21 626.90 25.04 306.72 263.42 103.67 10 18 48 26.9 26.68 298.43
 100.00 6 39 34 1326.89 -1.17 345.56 252.85 119.87 7 1 41 726.9 2.81 339.04
 100.00 11 49 46 5587.98 27.43 261.18 264.04 102.37 13 22 54 4988.0 28.86 252.67
 110.00 7 8 18 1236.78 -6.02 335.72 249.84 123.71 7 28 55 636.8 -1.55 329.49
 110.00 13 37 31 5250.86 33.03 236.82 265.28 99.35 15 5 2 4650.9 33.97 227.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.8767 TRA-1.0465 TC3-1.0754 BAU .6893 SGT 2393.7 SGR 899.1 SG3 179.1 ST 1690.3 SR 452.0 SS 808.9
 RDE .5097 RRA .0157 RC3 .6009 FAU .05316 RRT -.8584 RRF -.9586 RTF .9223 CRT -.9851 CRS .9997 CST -.9868
 FDE-1.6995 FRA -.0976 FC3-1.0997 BSP 7767 SGB 2557.0 R23 .2713 R13 -.9396 LSA 1923.0 MSA 133.6 SSA 9.0
 BDE 1.9447 BRA 1.0467 BC3 1.2319 FSP -575 SG1 2519.1 SG2 438.2 THA 161.55 EL1 1748.1 EL2 75.3 ALF 165.21

LAUNCH DATE MAR 4 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 331.627

RL 148.35 LAL .00 LOL 163.25 VL 28.205 GAL -9.30 AZL 97.68 HCA 156.60 SMA 133.55 ECC .19511 INC 7.6783 V1 30.035
 RP 108.94 LAP -3.04 LOP 320.03 VP 37.984 GAP 3.73 AZP 82.95 TAL 226.63 TAP 23.23 RCA 107.50 APO 159.61 V2 34.786
 RC 112.844 GL -33.77 GP 56.87 ZAL 138.28 ZAP 111.87 ETS 39.97 ZAE 113.78 ETE 136.06 ZAC 84.37 ETC 164.53 CLP-132.96

PLANETOCENTRIC CONIC

C3 44.752 VHL 6.690 DLA -27.15 RAL 22.82 RAD 6568.7 VEL 12.889 PTH 2.35 VHP 6.738 DPA 49.60 RAP 335.49 ECC 1.7365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 26 1325.71 7.33 350.11 261.13 117.43 7 16 32 725.7 10.95 343.30
 90.00 9 17 11 859.61 20.41 322.19 267.04 110.06 9 31 31 259.6 22.96 314.44
 100.00 7 39 57 1178.67 3.85 337.42 259.23 119.67 7 59 36 578.7 7.77 330.83
 100.00 11 14 21 5769.93 24.15 273.70 268.44 108.17 12 50 31 5169.9 26.41 265.63
 110.00 7 51 57 1141.01 -2.38 330.70 255.35 124.11 8 10 58 541.0 2.11 324.49
 110.00 13 18 51 5380.35 31.18 246.46 270.78 104.77 14 48 31 4780.4 32.89 237.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.2060 TRA -.9731 TC3-1.0504 BAU .7048 SGT 2534.2 SGR 864.4 SG3 159.1 ST 1910.6 SR 483.4 SS 827.2
 RDE .5632 RRA -.0761 RC3 .5333 FAU .04528 RRT -.8425 RRF -.9560 RTF .9273 CRT -.9812 CRS .9988 CST -.9890
 FDE-1.6585 FRA .0036 FC3 -.8760 BSP 8162 SGB 2677.6 R23 .2774 R13 -.9424 LSA 2132.9 MSA 137.9 SSA 7.2
 BDE 2.2768 BRA .9761 BC3 1.1780 FSP -509 SG1 2640.0 SG2 446.9 THA 163.48 EL1 1968.7 EL2 90.6 ALF 166.03

LAUNCH DATE MAR 4 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 337.603

RL 148.35 LAL .00 LOL 163.25 VL 28.147 GAL -9.09 AZL 99.04 HCA 159.72 SMA 133.12 ECC .19422 INC 9.0356 V1 30.035
 RP 108.93 LAP -3.12 LOP 323.20 VP 37.944 GAP 4.00 AZP 81.52 TAL 225.34 TAP 25.06 RCA 107.26 APO 158.97 V2 34.789
 RC 115.239 GL -38.32 GP 60.30 ZAL 133.90 ZAP 111.28 ETS 45.16 ZAE 110.16 ETE 138.09 ZAC 82.89 ETC 165.79 CLP-137.09

PLANETOCENTRIC CONIC

C3 49.555 VHL 7.040 DLA -30.57 RAL 26.61 RAD 6568.8 VEL 13.074 PTH 2.39 VHP 7.433 DPA 51.86 RAP 331.34 ECC 1.8155
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.97 6 44 19 1429.14 14.60 1.52 270.43 117.16 7 8 8 829.1 18.12 354.45
 102.03 9 57 32 807.26 14.61 315.70 270.44 117.15 10 10 59 207.3 18.14 308.63
 77.97 6 44 19 1429.14 14.60 1.52 270.43 117.16 7 8 8 829.1 18.12 354.45
 102.03 9 57 32 807.26 14.61 315.70 270.44 117.15 10 10 59 207.3 18.14 308.63
 110.00 8 52 34 1011.50 2.57 323.94 263.25 124.10 9 9 26 411.5 7.03 317.69
 110.00 12 48 27 5560.94 27.35 259.11 276.57 111.35 14 21 8 4960.9 30.00 250.92

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-2.6397 TRA -.8551 TC3 -.9813 BAU .7136 SGT 2679.3 SGR 812.8 SG3 139.1 ST 2162.6 SR 492.2 SS 845.6
 RDE .6008 RRA -.1854 RC3 .4440 FAU .03749 RRT -.8140 RRF -.9446 RTF .9344 CRT -.9758 CRS .9961 CST -.9912
 FDE-1.6170 FRA .0947 FC3 -.6549 BSP 8599 SGB 2799.8 R23 .2771 R13 -.9469 LSA 2369.3 MSA 142.4 SSA 5.7
 BDE 2.7072 BRA .8750 BC3 1.0771 FSP -445 SG1 2762.1 SG2 457.9 THA 165.73 EL1 2215.4 EL2 105.0 ALF 167.45

LAUNCH DATE MAR 4 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 343.548

RL 148.35 LAL .00 LOL 163.25 VL 28.088 GAL -8.87 AZL 100.86 HCA 162.83 SMA 132.67 ECC .19336 INC 10.8618 V1 30.035
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.903 GAP 4.26 AZP 79.61 TAL 224.00 TAP 26.83 RCA 107.02 APO 158.33 V2 34.792
 RC 117.630 GL -43.48 GP 64.28 ZAL 128.82 ZAP 110.02 ETS 51.30 ZAE 106.04 ETE 140.93 ZAC 81.02 ETC 167.96 CLP-142.07

PLANETOCENTRIC CONIC

C3 57.765 VHL 7.600 DLA -34.33 RAL 31.29 RAD 6569.1 VEL 13.384 PTH 2.45 VHP 8.401 DPA 54.17 RAP 325.75 ECC 1.9507
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.72 6 8 17 1637.41 14.90 17.60 278.35 121.29 6 35 34 1037.4 18.94 10.80
 110.28 11 10 55 674.84 14.92 305.77 278.36 121.29 11 22 10 74.8 18.95 298.96
 69.72 6 8 17 1637.41 14.90 17.60 278.35 121.29 6 35 34 1037.4 18.94 10.80
 110.28 11 10 55 674.84 14.92 305.77 278.36 121.29 11 22 10 74.8 18.95 298.96
 69.72 6 8 17 1637.41 14.90 17.60 278.35 121.29 6 35 34 1037.4 18.94 10.80
 110.28 11 10 55 674.84 14.92 305.77 278.36 121.29 11 22 10 74.8 18.95 298.96

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-3.2286 TRA -.6605 TC3 -.8547 BAU .7073 SGT 2824.1 SGR 724.8 SG3 118.8 ST 2440.9 SR 445.2 SS 861.5
 RDE .5787 RRA -.3192 RC3 .3290 FAU .02966 RRT -.7504 RRF -.9064 RTF .9441 CRT -.9631 CRS .9877 CST -.9933
 FDE-1.5728 FRA .1799 FC3 -.4445 BSP 8964 SGB 2915.6 R23 .2689 R13 -.9533 LSA 2622.4 MSA 146.6 SSA 4.4
 BDE 3.2801 BRA .7335 BC3 .9158 FSP -377 SG1 2877.5 SG2 470.2 THA 168.80 EL1 2478.4 EL2 118.0 ALF 170.01

LAUNCH DATE MAR 4 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 349.451

RL 148.35 LAL .00 LOL 163.25 VL 28.028 GAL -8.63 AZL 103.46 HCA 165.91 SMA 132.23 ECC .19251 INC13.4634 V1 30.035
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.862 GAP 4.50 A2P 76.93 TAL 222.61 TAP 28.52 RCA 106.77 APO 157.68 V2 34.796
 RC 120.015 GL -49.18 GP 68.86 ZAL 122.99 ZAP 108.03 ETS 59.32 ZAE 101.24 ETE 145.67 ZAC 78.55 ETC 172.12 CLP-149.12

PLANETOCENTRIC CONIC

C3 72.683 VHL 8.525 DLA -38.24 RAL 37.19 RAD 6569.4 VEL 13.930 PTH 2.54 VHP 9.830 DPA 56.22 RAP 318.08 ECC 2.1962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.15 5 56 5 1798.67 14.21 30.06 288.42 125.88 6 26 4 1198.7 18.80 23.64
 116.85 12 10 10 623.85 14.23 301.21 288.44 125.88 12 20 33 23.9 18.82 294.79
 63.15 5 56 5 1798.67 14.21 30.06 288.42 125.88 6 26 4 1198.7 18.80 23.64
 116.85 12 10 10 623.85 14.23 301.21 288.44 125.88 12 20 33 23.9 18.82 294.79
 63.15 5 56 5 1798.67 14.21 30.06 288.42 125.88 6 26 4 1198.7 18.80 23.64
 116.85 12 10 10 623.85 14.23 301.21 288.44 125.88 12 20 33 23.9 18.82 294.79

DIFFERENTIAL CORRECTIONS

TOE-4.0646 TRA -.3344 TC3 -.6677 BAU .6759
 ROE .3742 RRA -.4703 RC3 .1948 FAU .02209
 FDE-1.5378 FRA .2585 FC3 -.2631 BSP 9358
 BOE 4.0818 BRA .5771 BC3 .6956 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 2973.2 SGR 579.3 SG3 99.2
 RRT -.5516 RRF -.7487 RTF .9581
 SGB 3029.1 R23 -.2470 R13 -.9626
 SG1 2990.8 SG2 480.3 THA 173.70

ORBIT DETERMINATION ACCURACY

ST 2733.2 SR 279.2 SS 879.6
 CRT -.8873 CRS .9272 CST -.9954
 LSA 2880.9 MSA 149.2 SSA 3.3
 EL1 2744.4 EL2 128.2 ALF 174.81

LAUNCH DATE MAR 4 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 355.296

RL 148.35 LAL .00 LOL 163.25 VL 27.968 GAL -8.38 AZL 107.48 HCA 168.96 SMA 131.78 ECC .19162 INC17.4759 V1 30.035
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.821 GAP 4.71 A2P 72.83 TAL 221.16 TAP 30.11 RCA 106.53 APO 157.03 V2 34.800
 RC 122.394 GL -55.09 GP 73.87 ZAL 116.45 ZAP 105.30 ETS 71.87 ZAE 95.43 ETE 155.05 ZAC 75.12 ETC 181.03 CLP-161.76

PLANETOCENTRIC CONIC

C3 102.657 VHL 10.132 DLA -41.80 RAL 44.68 RAD 6570.0 VEL 14.967 PTH 2.70 VHP 12.110 DPA 57.36 RAP 307.62 ECC 2.6895
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.86 6 1 43 1944.32 11.96 40.58 300.96 130.36 6 34 7 1344.3 17.06 34.62
 122.14 13 4 16 632.69 11.98 300.14 300.97 130.36 13 14 49 32.7 17.08 294.19
 57.86 6 1 43 1944.32 11.96 40.58 300.96 130.36 6 34 7 1344.3 17.06 34.62
 122.14 13 4 16 632.69 11.98 300.14 300.97 130.36 13 14 49 32.7 17.08 294.19
 57.86 6 1 43 1944.32 11.96 40.58 300.96 130.36 6 34 7 1344.3 17.06 34.62
 122.14 13 4 16 632.69 11.98 300.14 300.97 130.36 13 14 49 32.7 17.08 294.19

DIFFERENTIAL CORRECTIONS

TOE-5.2373 TRA .2587 TC3 -.4240 BAU .5879
 ROE -.4551 RRA -.5718 RC3 .0610 FAU .01464
 FDE-1.5307 FRA .3435 FC3 -.1235 BSP 9736
 BOE 5.2571 BRA .6276 BC3 .4284 FSP -256

MID-COURSE EXECUTION ACCURACY

SGT 3090.0 SGR 519.3 SG3 81.0
 RRT .3558 RRF .1618 RTF .9763
 SGB 3133.4 R23 -.2079 R13 .9744
 SG1 3095.7 SG2 484.4 THA 3.51

ORBIT DETERMINATION ACCURACY

ST 2962.4 SR 288.4 SS 909.4
 CRT .8830 CRS -.8480 CST -.9975
 LSA 3108.6 MSA 149.4 SSA 2.5
 EL1 2973.3 EL2 134.8 ALF 4.92

LAUNCH DATE MAR 4 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 361.031

RL 148.35 LAL .00 LOL 163.25 VL 27.906 GAL -8.11 AZL 114.43 HCA 171.91 SMA 131.34 ECC .19058 INC24.4266 V1 30.035
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.781 GAP 4.90 A2P 65.79 TAL 219.61 TAP 31.52 RCA 106.31 APO 156.37 V2 34.805
 RC 124.766 GL -60.18 GP 77.91 ZAL 109.38 ZAP 101.87 ETS 96.47 ZAE 87.87 ETE 176.73 ZAC 69.93 ETC 202.46 CLP 169.06

PLANETOCENTRIC CONIC

C3 173.413 VHL 13.169 DLA -43.86 RAL 53.93 RAD 6570.9 VEL 17.168 PTH 2.94 VHP 16.168 DPA 56.27 RAP 294.18 ECC 3.8539
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.99 6 26 51 2075.83 7.82 48.46 315.69 133.30 7 1 27 1475.8 13.26 42.91
 125.01 13 52 57 700.62 7.84 302.40 315.71 133.30 14 4 37 100.6 13.27 296.84
 54.99 6 26 51 2075.83 7.82 48.46 315.69 133.30 7 1 27 1475.8 13.26 42.91
 125.01 13 52 57 700.62 7.84 302.40 315.71 133.30 14 4 37 100.6 13.27 296.84
 54.99 6 26 51 2075.83 7.82 48.46 315.69 133.30 7 1 27 1475.8 13.26 42.91
 125.01 13 52 57 700.62 7.84 302.40 315.71 133.30 14 4 37 100.6 13.27 296.84

DIFFERENTIAL CORRECTIONS

TOE-6.1324 TRA 1.3605 TC3 -.1529 BAU .3549
 ROE-3.5272 RRA -.1438 RC3 -.0069 FAU .00643
 FDE-1.6009 FRA .4741 FC3 -.0321 BSP 9889
 BOE 7.0744 BRA 1.3681 BC3 .1531 FSP -204

MID-COURSE EXECUTION ACCURACY

SGT 2820.5 SGR 1537.2 SG3 65.5
 RRT .9297 RRF .8977 RTF .9954
 SGB 3212.2 R23 -.1573 R13 .9858
 SG1 3172.5 SG2 503.4 THA 27.63

ORBIT DETERMINATION ACCURACY

ST 2679.5 SR 1534.9 SS 980.4
 CRT .9941 CRS -.9903 CST -.9995
 LSA 3236.2 MSA 154.7 SSA 1.8
 EL1 3084.6 EL2 145.2 ALF 29.73

LAUNCH DATE MAR 4 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 366.501

RL 148.35 LAL .00 LOL 163.25 VL 27.845 GAL -7.77 AZL 128.73 HCA 174.61 SMA 130.89 ECC .18903 INC38.7327 V1 30.035
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.741 GAP 5.01 A2P 51.39 TAL 217.88 TAP 32.50 RCA 106.15 APO 155.63 V2 34.811
 RC 127.128 GL -61.20 GP 74.51 ZAL 102.31 ZAP 97.96 ETS 139.10 ZAE 76.61 ETE 216.61 ZAC 60.86 ETC 242.83 CLP 121.25

PLANETOCENTRIC CONIC

C3 388.046 VHL 19.699 DLA -41.59 RAL 63.93 RAD 6572.1 VEL 22.569 PTH 3.26 VHP 24.576 DPA 50.07 RAP 279.24 ECC 7.3863
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.16 7 19 49 2147.11 2.70 50.06 330.87 131.52 7 55 36 1547.1 7.98 44.44
 121.84 14 19 47 842.57 2.72 310.25 330.88 131.52 14 33 50 242.6 7.99 304.63
 58.16 7 19 49 2147.11 2.70 50.06 330.87 131.52 7 55 36 1547.1 7.98 44.44
 121.84 14 19 47 842.57 2.72 310.25 330.88 131.52 14 33 50 242.6 7.99 304.63
 58.16 7 19 49 2147.11 2.70 50.06 330.87 131.52 7 55 36 1547.1 7.98 44.44
 121.84 14 19 47 842.57 2.72 310.25 330.88 131.52 14 33 50 242.6 7.99 304.63

DIFFERENTIAL CORRECTIONS

TOE-2.2721 TRA 2.2225 TC3 -.0082 BAU .5089
 ROE-9.7739 RRA 2.5048 RC3 .0977 FAU .00703
 FDE-1.8761 FRA .7763 FC3 .0157 BSP 10017
 BOE10.0345 BRA 3.3487 BC3 .0981 FSP -171

MID-COURSE EXECUTION ACCURACY

SGT 1088.5 SGR 3029.7 SG3 54.1
 RRT .8212 RRF .9845 RTF .9083
 SGB 3219.3 R23 -.1179 R13 .9929
 SG1 3163.9 SG2 594.7 THA 72.94

ORBIT DETERMINATION ACCURACY

ST 709.9 SR 2857.8 SS 1174.5
 CRT .9634 CRS -.9981 CST -.9781
 LSA 3164.4 MSA 192.1 SSA .6
 EL1 2938.8 EL2 185.2 ALF 76.49

LAUNCH DATE MAR 4 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 371.069

RL 148.35 LAL .00 LOL 163.25 VL 27.783 GAL -7.24 AZL 163.04 MCA 176.46 SMA 130.45 ECC .18552 INC73.0419 V1 30.035
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.701 GAP 4.86 AZP 16.99 TAL 215.56 TAP 32.02 RCA 106.25 APO 154.65 V2 34.818
 RC 129.481 GL -49.72 GP 56.04 ZAL 96.54 ZAP 94.38 ETS 167.45 ZAE 56.24 ETE 240.84 ZAC 42.02 ETC 271.69 CLP 97.87

PLANETOCENTRIC CONIC

C31194.208 VHL 34.557 DLA -28.07 RAL 70.64 RAD 6573.1 VEL 36.270 PTH 3.53 VHP 43.370 DPA 32.29 RAP 266.71 ECC20.6536
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 10 43 34 1675.46 -3.89 9.70 339.61 118.07 11 11 29 1075.5 -1.10 3.06
 90.00 11 49 32 1461.28 3.01 357.74 343.30 118.17 12 13 53 861.3 6.76 351.06
 100.00 11 10 23 1588.72 -9.90 .10 336.37 118.35 11 36 51 988.7 -6.03 353.44
 100.00 14 5 24 1023.25 9.01 328.77 346.56 118.62 14 22 27 423.3 12.77 321.99
 110.00 11 13 29 1578.98 -18.34 354.57 331.58 119.37 11 39 48 979.0 -14.29 347.80
 110.00 16 18 47 605.75 17.42 301.91 351.39 119.89 16 28 53 5.8 21.26 294.89

DIFFERENTIAL CORRECTIONS

TDE 3.9836 TRA 1.1276 TC3 -.0594 BAU 3.0849
 RD-12.2768 RRA 7.4690 RC3 .1839 FAU-.04855
 FDE-2.3981 FRA 1.6495 FC3 .0352 BSP 8792
 BDE12.9069 BRA 7.5536 BC3 .1932 FSP -153

MID-COURSE EXECUTION ACCURACY

SGT 806.1 SGR 2779.9 SG3 48.4
 RRT -.7002 RRF .9983 RTF -.6579
 SGB 2894.4 R23 -.0994 R13 .9950
 SG1 2839.0 SG2 563.5 THA 101.95

ORBIT DETERMINATION ACCURACY

ST 663.6 SR 2078.9 SS 1530.3
 CRT -.9534 CRS -.9997 CST .9475
 LSA 2658.0 MSA 198.5 SSA .6
 EL1 2174.2 EL2 187.4 ALF 107.09

LAUNCH DATE MAR 4 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 381.474

RL 148.35 LAL .00 LOL 163.25 VL 27.721 GAL -7.91 AZL 32.20 MCA 184.01 SMA 130.01 ECC .19616 INC57.8027 V1 30.035
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.662 GAP 6.35 AZP 147.74 TAL 216.67 TAP 40.68 RCA 104.51 APO 155.51 V2 34.825
 RC 131.823 GL 55.48 GP -64.01 ZAL 98.67 ZAP 97.02 ETS 186.94 ZAE 69.31 ETE 112.90 ZAC 78.37 ETC 88.43 CLP 106.19

PLANETOCENTRIC CONIC

C3 795.142 VHL 28.198 DLA 71.22 RAL 20.39 RAD 6572.8 VEL 30.273 PTH 3.45 VHP 35.191 DPA -87.11 RAP 217.64 ECC14.0860
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 21.46 14 37 17 5073.63 -.35 247.58 290.28 18.78 16 1 51 4473.6 -7.93 245.40
 158.54 1 14 54 3313.08 -.35 96.06 290.26 18.78 2 10 7 2713.1 -7.92 93.88
 21.46 14 37 17 5073.63 -.35 247.58 290.28 18.78 16 1 51 4473.6 -7.93 245.40
 158.54 1 14 54 3313.08 -.35 96.06 290.26 18.78 2 10 7 2713.1 -7.92 93.88
 21.46 14 37 17 5073.63 -.35 247.58 290.28 18.78 16 1 51 4473.6 -7.93 245.40
 158.54 1 14 54 3313.08 -.35 96.06 290.26 18.78 2 10 7 2713.1 -7.92 93.88

DIFFERENTIAL CORRECTIONS

TDE-1.0743 TRA 1.2068 TC3 -.0668 BAU 2.0296
 RD-13.0296 RRA 2.0732 RC3 -.1789 FAU-.02751
 FDE 2.5144 FRA -.3603 FC3 .0299 BSP 9938
 BDE13.0738 BRA 2.3989 BC3 .1909 FSP -164

MID-COURSE EXECUTION ACCURACY

SGT 877.2 SGR 3120.6 SG3 50.5
 RRT .7139 RRF -.9986 RTF -.6797
 SGB 3241.5 R23 -.0867 R13 -.9960
 SG1 3185.2 SG2 601.8 THA 78.23

ORBIT DETERMINATION ACCURACY

ST 316.2 SR 2676.6 SS 1567.2
 CRT .7892 CRS .9999 CST .7803
 LSA 3111.6 MSA 195.4 SSA 1.2
 EL1 2688.2 EL2 193.3 ALF 84.65

LAUNCH DATE MAR 4 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 386.482

RL 148.35 LAL .00 LOL 163.25 VL 27.658 GAL -7.46 AZL 57.39 MCA 186.30 SMA 129.57 ECC .19371 INC32.6136 V1 30.035
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.623 GAP 6.32 AZP 122.46 TAL 214.65 TAP 40.96 RCA 104.47 APO 154.67 V2 34.833
 RC 134.153 GL 61.52 GP -74.93 ZAL 103.86 ZAP 101.86 ETS 222.04 ZAE 85.85 ETE 146.55 ZAC 93.45 ETC 124.52 CLP 142.21

PLANETOCENTRIC CONIC

C3 282.754 VHL 16.815 DLA 69.39 RAL 351.69 RAD 6571.6 VEL 20.101 PTH 3.14 VHP 20.856 DPA -75.65 RAP 62.64 ECC 5.6534
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.56 12 47 18 4978.18 -6.08 244.68 259.40 20.73 14 10 16 4378.2 -13.55 242.19
 156.44 23 11 59 3228.81 -6.07 95.36 259.38 20.73 24 5 48 2628.8 -13.54 92.88
 23.56 12 47 18 4978.18 -6.08 244.68 259.40 20.73 14 10 16 4378.2 -13.55 242.19
 156.44 23 11 59 3228.81 -6.07 95.36 259.38 20.73 24 5 48 2628.8 -13.54 92.88
 23.56 12 47 18 4978.18 -6.08 244.68 259.40 20.73 14 10 16 4378.2 -13.55 242.19
 156.44 23 11 59 3228.81 -6.07 95.36 259.38 20.73 24 5 48 2628.8 -13.54 92.88

DIFFERENTIAL CORRECTIONS

TDE 3.3266 TRA -9.552 TC3 -.0190 BAU .2159
 RDE-3.9750 RRA 3.0678 RC3 -.0538 FAU .00224
 FDE 1.1884 FRA -.5840 FC3 -.0069 BSP 11157
 BDE 5.1834 BRA 3.2131 BC3 .0571 FSP -195

MID-COURSE EXECUTION ACCURACY

SGT 1464.3 SGR 3269.5 SG3 60.1
 RRT -.8920 RRF -.9774 RTF .9651
 SGB 3582.4 R23 -.1356 R13 -.9897
 SG1 3529.6 SG2 613.1 THA 112.49

ORBIT DETERMINATION ACCURACY

ST 1167.0 SR 1621.3 SS 791.1
 CRT -.9421 CRS .9829 CST -.9878
 LSA 2123.7 MSA 325.9 SSA 1.6
 EL1 1971.5 EL2 321.7 ALF 125.22

LAUNCH DATE MAR 4 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 392.029

RL 148.35 LAL .00 LOL 163.25 VL 27.596 GAL -7.12 AZL 68.20 MCA 189.13 SMA 129.14 ECC .19277 INC21.7986 V1 30.035
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.585 GAP 6.44 AZP 111.55 TAL 212.91 TAP 42.04 RCA 104.24 APO 154.03 V2 34.841
 RC 136.471 GL 59.42 GP -72.53 ZAL 109.06 ZAP 107.45 ETS 268.27 ZAE 95.64 ETE 191.50 ZAC 101.77 ETC 170.69 CLP 177.66

PLANETOCENTRIC CONIC

C3 139.498 VHL 11.811 DLA 64.29 RAL 348.54 RAD 6570.5 VEL 16.150 PTH 2.84 VHP 14.580 DPA -65.04 RAP 55.41 ECC 3.2958
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.52 12 48 4 4849.05 -12.56 238.01 252.39 26.38 14 8 53 4249.0 -19.70 234.66
 150.48 22 46 5 3138.36 -12.55 95.22 252.37 26.38 23 38 24 2538.4 -19.69 91.88
 29.52 12 48 4 4849.05 -12.56 238.01 252.39 26.38 14 8 53 4249.0 -19.70 234.66
 150.48 22 46 5 3138.36 -12.55 95.22 252.37 26.38 23 38 24 2538.4 -19.69 91.88
 29.52 12 48 4 4849.05 -12.56 238.01 252.39 26.38 14 8 53 4249.0 -19.70 234.66
 150.48 22 46 5 3138.36 -12.55 95.22 252.37 26.38 23 38 24 2538.4 -19.69 91.88

DIFFERENTIAL CORRECTIONS

TDE 3.0152 TRA-2.7822 TC3 -.2331 BAU .4389
 RDE -.1632 RRA 1.2133 RC3 .0320 FAU .01477
 FDE .9136 FRA -.6273 FC3 -.0916 BSP 11650
 BDE 3.0196 BRA 3.0353 BC3 .2353 FSP -241

MID-COURSE EXECUTION ACCURACY

SGT 3482.1 SGR 1361.4 SG3 74.1
 RRT -.9239 RRF -.8595 RTF .9880
 SGB 3738.8 R23 -.1874 R13 -.9801
 SG1 3706.7 SG2 489.3 THA 159.77

ORBIT DETERMINATION ACCURACY

ST 1735.3 SR 414.7 SS 618.1
 CRT -.6890 CRS .5935 CST -.9922
 LSA 1862.6 MSA 309.5 SSA 2.0
 EL1 1759.3 EL2 296.5 ALF 170.37

LAUNCH DATE MAR 4 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 397.736

RL 148.35 LAL .00 LOL 163.25 VL 27.534 GAL -6.81 AZL 73.83 HCA 192.14 SMA 128.71 ECC .19236 INC16.1731 V1 30.035
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.548 GAP 6.61 AZP 105.83 TAL 211.23 TAP 43.36 RCA 103.95 APO 153.47 V2 34.850
 RC 138.775 GL 55.24 GP -66.39 ZAL 113.52 ZAP 113.08 ETS 286.31 ZAE 102.62 ETE 207.75 ZAC 107.56 ETC 188.00 CLP-168.12

PLANETOCENTRIC CONIC

C3 85.915 VHL 9.269 DLA 59.67 RAL 351.50 RAD 6569.7 VEL 14.397 PTH 2.62 VHP 11.446 DPA -56.68 RAP 51.18 ECC 2.4139
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.00 13 13 14 4725.88 -17.83 230.49 250.66 32.04 14 31 59 4125.9 -24.55 226.25
 145.00 22 44 32 3061.47 -17.82 94.20 250.64 32.04 23 35 34 2461.5 -24.54 89.97
 35.00 13 13 14 4725.88 -17.83 230.49 250.66 32.04 14 31 59 4125.9 -24.55 226.25
 145.00 22 44 32 3061.47 -17.82 94.20 250.64 32.04 23 35 34 2461.5 -24.54 89.97
 35.00 13 13 14 4725.88 -17.83 230.49 250.66 32.04 14 31 59 4125.9 -24.55 226.25
 145.00 22 44 32 3061.47 -17.82 94.20 250.64 32.04 23 35 34 2461.5 -24.54 89.97

DIFFERENTIAL CORRECTIONS

TDE 2.2547 TRA-2.7728 TC3 -.5810 BAU .6684
 RDE .5223 RRA .2917 RC3 -.0320 FAU .02335
 FDE .8821 FRA -.6406 FC3 -.2353 BSP 12081
 BDE 2.3144 BRA 2.7881 BC3 .5819 FSP -299

MID-COURSE EXECUTION ACCURACY

SGT 3823.8 SGR 485.0 SG3 90.7
 RRT -.3763 RRF -.1532 RTF .9692
 SGB 3854.5 R23 -.2338 R13 -.9678
 SG1 3828.2 SG2 448.9 THA 177.23

ORBIT DETERMINATION ACCURACY

ST 1726.3 SR 340.2 SS 587.4
 CRT .5806 CRS -.7467 CST -.9751
 LSA 1831.0 MSA 297.6 SSA 2.7
 EL1 1737.9 EL2 275.1 ALF 6.69

LAUNCH DATE MAR 4 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 403.503

RL 148.35 LAL .00 LOL 163.25 VL 27.472 GAL -6.50 AZL 77.23 HCA 195.21 SMA 128.28 ECC .19223 INC12.7702 V1 30.035
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.512 GAP 6.79 AZP 102.34 TAL 209.57 TAP 44.78 RCA 103.62 APO 152.94 V2 34.860
 RC 141.067 GL 50.81 GP -60.09 ZAL 117.08 ZAP 118.44 ETS 293.31 ZAE 108.05 ETE 212.46 ZAC 112.19 ETC 193.80 CLP-162.76

PLANETOCENTRIC CONIC

C3 60.602 VHL 7.785 DLA 55.67 RAL 355.55 RAD 6569.1 VEL 13.489 PTH 2.47 VHP 9.684 DPA -49.50 RAP 48.51 ECC 1.9974
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.84 13 42 14 4618.76 -21.50 222.96 249.96 37.31 14 59 13 4018.8 -27.77 217.91
 140.16 22 47 54 3004.93 -21.49 92.90 249.94 37.31 23 37 59 2404.9 -27.76 87.84
 39.84 13 42 14 4618.76 -21.50 222.96 249.96 37.31 14 59 13 4018.8 -27.77 217.91
 140.16 22 47 54 3004.93 -21.49 92.90 249.94 37.31 23 37 59 2404.9 -27.76 87.84
 39.84 13 42 14 4618.76 -21.50 222.96 249.96 37.31 14 59 13 4018.8 -27.77 217.91
 140.16 22 47 54 3004.93 -21.49 92.90 249.94 37.31 23 37 59 2404.9 -27.76 87.84

DIFFERENTIAL CORRECTIONS

TDE 1.8676 TRA-2.5730 TC3 -.9636 BAU .7863
 RDE .5885 RRA .0236 RC3 -.1153 FAU .03026
 FDE .8835 FRA -.6317 FC3 -.4323 BSP 12412
 BDE 1.9582 BRA 2.5731 BC3 .9705 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 3926.4 SGR 469.8 SG3 107.8
 RRT .4127 RRF .6435 RTF .9541
 SGB 3954.4 R23 -.2690 R13 -.9556
 SG1 3931.2 SG2 427.4 THA 2.86

ORBIT DETERMINATION ACCURACY

ST 1704.8 SR 433.2 SS 582.3
 CRT .7938 CRS -.9268 CST -.9641
 LSA 1830.1 MSA 289.3 SSA 3.6
 EL1 1739.9 EL2 258.2 ALF 11.67

LAUNCH DATE MAR 4 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 409.296

RL 148.35 LAL .00 LOL 163.25 VL 27.410 GAL -6.19 AZL 79.51 HCA 198.31 SMA 127.87 ECC .19229 INC10.4932 V1 30.035
 RP 108.68 LAP -3.28 LOP 358.09 VP 37.476 GAP 6.99 AZP 99.97 TAL 207.91 TAP 46.22 RCA 103.28 APO 152.45 V2 34.870
 RC 143.344 GL 46.64 GP -54.32 ZAL 119.77 ZAP 123.39 ETS 296.88 ZAE 112.39 ETE 213.37 ZAC 116.12 ETC 195.85 CLP-160.66

PLANETOCENTRIC CONIC

C3 46.599 VHL 6.826 DLA 52.25 RAL 359.63 RAD 6568.7 VEL 12.960 PTH 2.36 VHP 8.614 DPA -43.15 RAP 46.91 ECC 1.7669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.06 14 10 44 4527.22 -23.87 215.85 249.61 42.02 15 26 11 3927.2 -29.69 210.11
 135.94 22 51 56 2966.45 -23.85 91.70 249.59 42.02 23 41 22 2366.4 -29.67 85.96
 44.06 14 10 44 4527.22 -23.87 215.85 249.61 42.02 15 26 11 3927.2 -29.69 210.11
 135.94 22 51 56 2966.45 -23.85 91.70 249.59 42.02 23 41 22 2366.4 -29.67 85.96
 44.06 14 10 44 4527.22 -23.87 215.85 249.61 42.02 15 26 11 3927.2 -29.69 210.11
 135.94 22 51 56 2966.45 -23.85 91.70 249.59 42.02 23 41 22 2366.4 -29.67 85.96

DIFFERENTIAL CORRECTIONS

TDE 1.6398 TRA-2.3888 TC3 -1.3642 BAU .8576
 RDE .5501 RRA -.0558 RC3 -.1843 FAU .03579
 FDE .8771 FRA -.6002 FC3 -.6649 BSP 12681
 BDE 1.7296 BRA 2.3895 BC3 1.3766 FSP -407

MID-COURSE EXECUTION ACCURACY

SGT 4011.3 SGR 531.4 SG3 123.5
 RRT .6356 RRF .8312 RTF .9416
 SGB 4046.3 R23 .2932 R13 .9442
 SG1 4025.6 SG2 408.8 THA 4.86

ORBIT DETERMINATION ACCURACY

ST 1692.0 SR 462.4 SS 578.2
 CRT .8417 CRS -.9626 CST -.9564
 LSA 1825.2 MSA 282.1 SSA 4.6
 EL1 1737.1 EL2 243.2 ALF 13.22

LAUNCH DATE MAR 4 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 415.099

RL 148.35 LAL .00 LOL 163.25 VL 27.349 GAL -5.87 AZL 81.14 HCA 201.44 SMA 127.45 ECC .19252 INC 8.8586 V1 30.035
 RP 108.65 LAP -3.23 LOP 358.09 VP 37.441 GAP 7.18 AZP 98.25 TAL 206.24 TAP 47.68 RCA 102.91 APO 151.99 V2 34.880
 RC 145.608 GL 42.86 GP -49.19 ZAL 121.67 ZAP 127.87 ETS 299.13 ZAE 115.88 ETE 212.77 ZAC 119.60 ETC 196.42 CLP-159.95

PLANETOCENTRIC CONIC

C3 37.941 VHL 6.160 DLA 49.35 RAL 352 RAD 6568.5 VEL 12.622 PTH 2.29 VHP 7.935 DPA -37.53 RAP 46.06 ECC 1.6244
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.73 14 37 49 4448.48 -25.32 209.35 249.57 46.11 15 51 57 3848.5 -30.71 203.07
 132.27 22 55 53 2941.57 -25.30 90.78 249.56 46.10 23 44 54 2341.6 -30.70 84.50
 47.73 14 37 49 4448.48 -25.32 209.35 249.57 46.11 15 51 57 3848.5 -30.71 203.07
 132.27 22 55 53 2941.57 -25.30 90.78 249.56 46.10 23 44 54 2341.6 -30.70 84.50
 47.73 14 37 49 4448.48 -25.32 209.35 249.57 46.11 15 51 57 3848.5 -30.71 203.07
 132.27 22 55 53 2941.57 -25.30 90.78 249.56 46.10 23 44 54 2341.6 -30.70 84.50

DIFFERENTIAL CORRECTIONS

TDE 1.4810 TRA-2.2305 TC3 -1.7770 BAU .9092
 RDE .4958 RRA -.0761 RC3 -.2359 FAU .04015
 FDE .8535 FRA -.5525 FC3 -.9161 BSP 13023
 BDE 1.5618 BRA 2.2318 BC3 1.7926 FSP -456

MID-COURSE EXECUTION ACCURACY

SGT 4103.0 SGR 555.9 SG3 137.3
 RRT .7094 RRF .8828 RTF .9318
 SGB 4140.5 R23 .3060 R13 .9347
 SG1 4122.1 SG2 390.0 THA 5.54

ORBIT DETERMINATION ACCURACY

ST 1677.9 SR 462.4 SS 568.4
 CRT .8598 CRS -.9759 CST -.9503
 LSA 1810.1 MSA 275.3 SSA 5.7
 EL1 1725.2 EL2 229.7 ALF 13.58

LAUNCH DATE MAR 4 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 420.903

RL 148.35 LAL .00 LOL 163.25 VL 27.288 GAL -5.55 AZL 82.38 MCA 204.59 SMA 127.05 ECC .19291 INC 7.6235 V1 30.035
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.406 GAP 7.38 AZP 96.94 TAL 204.56 TAP 49.14 RCA 102.54 APO 151.55 V2 34.891
 RC 147.857 GL 39.47 GP -44.69 ZAL 122.86 ZAP 131.89 ETS 300.76 ZAE 118.68 ETE 211.51 ZAC 122.75 ETC 196.31 CLP-159.92

PLANETOCENTRIC CONIC

C3 32.130 VHL 5.668 DLA 46.90 RAL 7.23 RAD 6568.3 VEL 12.390 PTH 2.24 VHP 7.494 DPA -32.53 RAP 45.77 ECC 1.5288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.91 15 3 29 4379.74 -26.17 203.49 249.86 49.59 16 16 29 3779.7 -31.18 196.79
 129.09 22 59 47 2926.40 -26.16 90.15 249.85 49.58 23 48 33 2326.4 -31.17 83.46
 50.91 15 3 29 4379.74 -26.17 203.49 249.86 49.59 16 16 29 3779.7 -31.18 196.79
 129.09 22 59 47 2926.40 -26.16 90.15 249.85 49.58 23 48 33 2326.4 -31.17 83.46
 50.91 15 3 29 4379.74 -26.17 203.49 249.86 49.59 16 16 29 3779.7 -31.18 196.79
 129.09 22 59 47 2926.40 -26.16 90.15 249.85 49.58 23 48 33 2326.4 -31.17 83.46

DIFFERENTIAL CORRECTIONS

TOE 1.3489 TRA-2.1009 TC3-2.2122 BAU .9576
 RDE .4424 RRA -.0800 RC3 -.2769 FAU .04383
 FDE .8073 FRA -.5020 FC3-1.1809 BSP 13721
 BDE 1.4196 BRA 2.1024 BC3 2.2294 FSP -518

MID-COURSE EXECUTION ACCURACY

SGT 4219.8 SGR 559.0 SG3 149.9
 RRT .7481 RRF .9002 RTF .9259
 SGB 4256.6 R23 .3047 R13 .9286
 SG1 4240.6 SG2 369.1 THA 5.70

ORBIT DETERMINATION ACCURACY

ST 1653.5 SR 448.7 SS 548.3
 CRT .8674 CRS -.9822 CST -.9451
 LSA 1778.9 MSA 267.2 SSA 7.1
 EL1 1699.5 EL2 217.2 ALF 13.47

LAUNCH DATE MAR 4 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 426.712

RL 148.35 LAL .00 LOL 163.25 VL 27.227 GAL -5.22 AZL 83.35 MCA 207.74 SMA 126.64 ECC .19342 INC 6.6527 V1 30.035
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.372 GAP 7.58 AZP 95.89 TAL 202.86 TAP 50.60 RCA 102.15 APO 151.14 V2 34.902
 RC 150.092 GL 36.43 GP -40.76 ZAL 123.44 ZAP 135.47 ETS 302.04 ZAE 120.93 ETE 209.97 ZAC 125.66 ETC 195.91 CLP-160.25

PLANETOCENTRIC CONIC

C3 27.975 VHL 5.289 DLA 44.83 RAL 10.81 RAD 6568.1 VEL 12.221 PTH 2.20 VHP 7.206 DPA -28.08 RAP 45.91 ECC 1.4604
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.67 15 27 53 4319.08 -26.66 198.25 250.49 52.52 16 39 52 3719.1 -31.33 191.24
 126.33 23 3 57 2917.63 -26.65 89.77 250.48 52.51 23 52 34 2317.6 -31.32 82.76
 53.67 15 27 53 4319.08 -26.66 198.25 250.49 52.52 16 39 52 3719.1 -31.33 191.24
 126.33 23 3 57 2917.63 -26.65 89.77 250.48 52.51 23 52 34 2317.6 -31.32 82.76
 53.67 15 27 53 4319.08 -26.66 198.25 250.49 52.52 16 39 52 3719.1 -31.33 191.24
 126.33 23 3 57 2917.63 -26.65 89.77 250.48 52.51 23 52 34 2317.6 -31.32 82.76

DIFFERENTIAL CORRECTIONS

TOE 1.2981 TRA-1.9254 TC3-2.5788 BAU .9702
 RDE .4134 RRA -.0596 RC3 -.2821 FAU .04447
 FDE .7938 FRA -.3997 FC3-1.3763 BSP 13098
 BDE 1.3623 BRA 1.9263 BC3 2.5942 FSP -486

MID-COURSE EXECUTION ACCURACY

SGT 4250.7 SGR 545.7 SG3 155.3
 RRT .7377 RRF .8919 RTF .9129
 SGB 4285.6 R23 .3160 R13 .9156
 SG1 4269.8 SG2 366.8 THA 5.45

ORBIT DETERMINATION ACCURACY

ST 1662.1 SR 448.7 SS 548.0
 CRT .8776 CRS -.9885 CST -.9394
 LSA 1786.9 MSA 266.4 SSA 8.2
 EL1 1708.8 EL2 209.2 ALF 13.54

LAUNCH DATE MAR 4 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 432.512

RL 148.35 LAL .00 LOL 163.25 VL 27.167 GAL -4.89 AZL 84.13 MCA 210.90 SMA 126.25 ECC .19409 INC 5.8658 V1 30.035
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.340 GAP 7.79 AZP 95.04 TAL 201.16 TAP 52.06 RCA 101.75 APO 150.75 V2 34.914
 RC 152.312 GL 33.70 GP -37.34 ZAL 123.48 ZAP 138.66 ETS 303.08 ZAE 122.74 ETE 208.34 ZAC 128.40 ETC 195.36 CLP-160.79

PLANETOCENTRIC CONIC

C3 24.863 VHL 4.986 DLA 43.08 RAL 14.31 RAD 6568.0 VEL 12.093 PTH 2.16 VHP 7.020 DPA -24.12 RAP 46.39 ECC 1.4092
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.07 15 51 18 4264.83 -26.92 193.57 251.44 55.00 17 2 23 3664.8 -31.30 186.32
 123.93 23 8 29 2913.44 -26.90 89.61 251.43 54.99 23 57 3 2313.4 -31.29 82.36
 56.07 15 51 18 4264.83 -26.92 193.57 251.44 55.00 17 2 23 3664.8 -31.30 186.32
 123.93 23 8 29 2913.44 -26.90 89.61 251.43 54.99 23 57 3 2313.4 -31.29 82.36
 56.07 15 51 18 4264.83 -26.92 193.57 251.44 55.00 17 2 23 3664.8 -31.30 186.32
 123.93 23 8 29 2913.44 -26.90 89.61 251.43 54.99 23 57 3 2313.4 -31.29 82.36

DIFFERENTIAL CORRECTIONS

TOE 1.2190 TRA-1.8010 TC3-3.0084 BAU 1.0048
 RDE .3790 RRA -.0529 RC3 -.2982 FAU .04598
 FDE .7403 FRA -.3308 FC3-1.6010 BSP 13644
 BDE 1.2765 BRA 1.8018 BC3 3.0231 FSP -523

MID-COURSE EXECUTION ACCURACY

SGT 4357.8 SGR 533.9 SG3 162.6
 RRT .7470 RRF .8841 RTF .9089
 SGB 4390.4 R23 .3019 R13 .9112
 SG1 4376.1 SG2 353.4 THA 5.26

ORBIT DETERMINATION ACCURACY

ST 1640.9 SR 436.3 SS 525.4
 CRT .8828 CRS -.9917 CST -.9347
 LSA 1758.3 MSA 259.1 SSA 9.8
 EL1 1686.2 EL2 199.5 ALF 13.40

LAUNCH DATE MAR 4 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 438.308

RL 148.35 LAL .00 LOL 163.25 VL 27.107 GAL -4.54 AZL 84.79 MCA 214.07 SMA 125.86 ECC .19491 INC 5.2113 V1 30.035
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.307 GAP 7.99 AZP 94.32 TAL 199.44 TAP 53.51 RCA 101.33 APO 150.39 V2 34.926
 RC 154.516 GL 31.21 GP -34.37 ZAL 123.04 ZAP 141.50 ETS 303.93 ZAE 124.20 ETE 206.73 ZAC 131.02 ETC 194.76 CLP-161.45

PLANETOCENTRIC CONIC

C3 22.441 VHL 4.737 DLA 41.59 RAL 17.80 RAD 6567.9 VEL 11.992 PTH 2.14 VHP 6.907 DPA -20.57 RAP 47.13 ECC 1.3693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.16 16 13 56 4216.01 -27.04 189.37 252.71 57.10 17 24 12 3616.0 -31.17 181.94
 121.84 23 13 40 2912.15 -27.03 89.59 252.70 57.09 24 2 12 2312.2 -31.15 82.16
 58.16 16 13 56 4216.01 -27.04 189.37 252.71 57.10 17 24 12 3616.0 -31.17 181.94
 121.84 23 13 40 2912.15 -27.03 89.59 252.70 57.09 24 2 12 2312.2 -31.15 82.16
 58.16 16 13 56 4216.01 -27.04 189.37 252.71 57.10 17 24 12 3616.0 -31.17 181.94
 121.84 23 13 40 2912.15 -27.03 89.59 252.70 57.09 24 2 12 2312.2 -31.15 82.16

DIFFERENTIAL CORRECTIONS

TOE 1.1621 TRA-1.6690 TC3-3.4291 BAU 1.0328
 RDE .3539 RRA -.0439 RC3 -.3051 FAU .04632
 FDE .6909 FRA -.2539 FC3-1.7945 BSP 14004
 BDE 1.2148 BRA 1.6696 BC3 3.4426 FSP -543

MID-COURSE EXECUTION ACCURACY

SGT 4451.6 SGR 521.3 SG3 167.5
 RRT .7464 RRF .8691 RTF .9047
 SGB 4482.0 R23 .2851 R13 .9066
 SG1 4468.7 SG2 345.6 THA 5.03

ORBIT DETERMINATION ACCURACY

ST 1625.1 SR 428.6 SS 505.0
 CRT .8897 CRS -.9945 CST -.9303
 LSA 1736.6 MSA 252.2 SSA 11.4
 EL1 1669.8 EL2 190.5 ALF 13.38

LAUNCH DATE MAR 4 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 444.098

RL 148.35 LAL .00 LOL 163.25 VL 27.048 GAL -4.19 AZL 85.34 MCA 217.24 SMA 125.48 ECC .19588 INC 4.6556 V1 30.035
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.276 GAP 8.20 AZP 93.71 TAL 197.72 TAP 54.95 RCA 100.90 APO 150.06 V2 34.938
 RC 156.704 GL 28.92 GP -31.77 ZAL 122.18 ZAP 144.04 ETS 304.61 ZAE 125.38 ETE 205.20 ZAC 133.54 ETC 194.15 CLP-162.18

PLANETOCENTRIC CONIC

C3 20.503 VHL 4.528 OLA 40.33 RAL 21.31 RAD 6567.8 VEL 11.911 PTH 2.12 VHP 6.845 DPA -17.39 RAP 48.10 ECC 1.3374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.99 16 36 1 4171.78 -27.08 185.59 254.29 58.89 17 45 33 3571.8 -30.99 178.02
 120.01 23 19 34 2912.88 -27.07 89.68 254.28 58.88 24 8 7 2312.9 -30.97 82.11
 59.99 16 36 1 4171.78 -27.08 185.59 254.29 58.89 17 45 33 3571.8 -30.99 178.02
 120.01 23 19 34 2912.88 -27.07 89.68 254.28 58.88 24 8 7 2312.9 -30.97 82.11
 59.99 16 36 1 4171.78 -27.08 185.59 254.29 58.89 17 45 33 3571.8 -30.99 178.02
 120.01 23 19 34 2912.88 -27.07 89.68 254.28 58.88 24 8 7 2312.9 -30.97 82.11

DIFFERENTIAL CORRECTIONS

TOE 1.1190 TRA-1.5326 TC3-3.8457 BAW 1.0575
 ROE .3351 RRA -.0347 RC3 -.3068 FAU .04639
 FOE .6438 FRA -.1749 FC3-1.9587 BSP 14305
 BOE 1.1681 BRA 1.5330 BC3 3.8580 FSP -553

MID-COURSE EXECUTION ACCURACY

SGT 4539.3 SGR 510.3 SG3 170.5
 RRT .7404 RRF .8492 RTF .9008
 SGB 4567.9 R23 .2654 R13 .9025
 SG1 4555.1 SG2 341.8 THA 4.78

ORBIT DETERMINATION ACCURACY

ST 1611.8 SR 424.5 SS 485.6
 CRT .8981 CRS -.9968 CST -.9260
 LSA 1718.6 MSA 245.2 SSA 13.2
 EL1 1656.9 EL2 181.6 ALF 13.47

LAUNCH DATE MAR 4 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 449.880

RL 148.35 LAL .00 LOL 163.25 VL 26.990 GAL -3.83 AZL 85.82 MCA 220.41 SMA 125.11 ECC .19701 INC 4.1751 V1 30.035
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.245 GAP 8.42 AZP 93.18 TAL 195.98 TAP 56.39 RCA 100.46 APO 149.75 V2 34.951
 RC 158.875 GL 26.79 GP -29.50 ZAL 120.94 ZAP 146.32 ETS 305.13 ZAE 126.34 ETE 203.77 ZAC 136.01 ETC 193.57 CLP-162.96

PLANETOCENTRIC CONIC

C3 18.922 VHL 4.350 OLA 39.24 RAL 24.87 RAD 6567.8 VEL 11.845 PTH 2.10 VHP 6.822 DPA -14.51 RAP 49.26 ECC 1.3114
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.62 16 57 46 4131.46 -27.07 182.18 256.16 60.43 18 6 37 3531.5 -30.78 174.50
 118.38 23 26 17 2915.11 -27.05 89.85 256.15 60.42 24 14 53 2315.1 -30.77 82.17
 61.62 16 57 46 4131.46 -27.07 182.18 256.16 60.43 18 6 37 3531.5 -30.78 174.50
 118.38 23 26 17 2915.11 -27.05 89.85 256.15 60.42 24 14 53 2315.1 -30.77 82.17
 61.62 16 57 46 4131.46 -27.07 182.18 256.16 60.43 18 6 37 3531.5 -30.78 174.50
 118.38 23 26 17 2915.11 -27.05 89.85 256.15 60.42 24 14 53 2315.1 -30.77 82.17

DIFFERENTIAL CORRECTIONS

TOE 1.0840 TRA-1.3923 TC3-4.2611 BAW 1.0807
 ROE .3208 RRA -.0262 RC3 -.3063 FAU .04582
 FOE .5975 FRA -.0973 FC3-2.0966 BSP 14595
 BOE 1.1305 BRA 1.3925 BC3 4.2721 FSP -558

MID-COURSE EXECUTION ACCURACY

SGT 4624.7 SGR 501.6 SG3 172.2
 RRT .7315 RRF .8261 RTF .8979
 SGB 4651.8 R23 .2431 R13 .8993
 SG1 4639.3 SG2 340.9 THA 4.56

ORBIT DETERMINATION ACCURACY

ST 1598.6 SR 422.9 SS 466.0
 CRT .9079 CRS -.9982 CST -.9220
 LSA 1701.4 MSA 237.3 SSA 15.1
 EL1 1644.6 EL2 172.3 ALF 13.66

LAUNCH DATE MAR 4 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 455.654

RL 148.35 LAL .00 LOL 163.25 VL 26.931 GAL -3.45 AZL 86.25 MCA 223.59 SMA 124.74 ECC .19830 INC 3.7531 V1 30.035
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.215 GAP 8.63 AZP 92.72 TAL 194.23 TAP 57.82 RCA 100.00 APO 149.47 V2 34.964
 RC 161.027 GL 24.79 GP -27.50 ZAL 119.35 ZAP 148.38 ETS 305.51 ZAE 127.14 ETE 202.45 ZAC 138.43 ETC 193.01 CLP-163.75

PLANETOCENTRIC CONIC

C3 17.615 VHL 4.197 OLA 38.28 RAL 28.53 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 6.830 DPA -11.91 RAP 50.57 ECC 1.2899
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.08 17 19 24 4094.45 -27.01 179.07 258.32 61.77 18 27 39 3494.5 -30.56 171.30
 116.92 23 33 49 2918.63 -27.00 90.11 258.31 61.76 24 22 28 2318.6 -30.55 82.35
 63.08 17 19 24 4094.45 -27.01 179.07 258.32 61.77 18 27 39 3494.5 -30.56 171.30
 116.92 23 33 49 2918.63 -27.00 90.11 258.31 61.76 24 22 28 2318.6 -30.55 82.35
 63.08 17 19 24 4094.45 -27.01 179.07 258.32 61.77 18 27 39 3494.5 -30.56 171.30
 116.92 23 33 49 2918.63 -27.00 90.11 258.31 61.76 24 22 28 2318.6 -30.55 82.35

DIFFERENTIAL CORRECTIONS

TOE 1.0581 TRA-1.2439 TC3-4.6649 BAW 1.1009
 ROE .3105 RRA -.0176 RC3 -.3034 FAU .04483
 FOE .5546 FRA -.0197 FC3-2.2030 BSP 14798
 BOE 1.1027 BRA 1.2440 BC3 4.6747 FSP -555

MID-COURSE EXECUTION ACCURACY

SGT 4701.0 SGR 495.4 SG3 172.7
 RRT .7194 RRF .8008 RTF .8950
 SGB 4727.0 R23 .2209 R13 .8963
 SG1 4714.5 SG2 343.1 THA 4.36

ORBIT DETERMINATION ACCURACY

ST 1587.9 SR 424.0 SS 448.0
 CRT .9195 CRS -.9984 CST -.9181
 LSA 1688.0 MSA 228.6 SSA 17.1
 EL1 1635.5 EL2 161.9 ALF 13.93

LAUNCH DATE MAR 4 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 461.419

RL 148.35 LAL .00 LOL 163.25 VL 26.874 GAL -3.07 AZL 86.62 MCA 226.78 SMA 124.38 ECC .19976 INC 3.3774 V1 30.035
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.186 GAP 8.85 AZP 92.31 TAL 192.47 TAP 59.25 RCA 99.53 APO 149.22 V2 34.977
 RC 163.161 GL 22.88 GP -25.75 ZAL 117.44 ZAP 150.25 ETS 305.73 ZAE 127.80 ETE 201.25 ZAC 140.83 ETC 192.49 CLP-164.56

PLANETOCENTRIC CONIC

C3 16.529 VHL 4.066 OLA 37.43 RAL 32.30 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 6.861 DPA -9.53 RAP 52.01 ECC 1.2720
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.42 17 41 10 4060.17 -26.92 176.20 260.76 62.94 18 48 51 3460.2 -30.31 168.36
 115.58 23 42 6 2923.56 -26.90 90.46 260.76 62.93 24 30 50 2323.6 -30.30 82.63
 64.42 17 41 10 4060.17 -26.92 176.20 260.76 62.94 18 48 51 3460.2 -30.31 168.36
 115.58 23 42 6 2923.56 -26.90 90.46 260.76 62.93 24 30 50 2323.6 -30.30 82.63
 64.42 17 41 10 4060.17 -26.92 176.20 260.76 62.94 18 48 51 3460.2 -30.31 168.36
 115.58 23 42 6 2923.56 -26.90 90.46 260.76 62.93 24 30 50 2323.6 -30.30 82.63

DIFFERENTIAL CORRECTIONS

TOE 1.0319 TRA-1.0933 TC3-5.0683 BAW 1.1220
 ROE .3021 RRA -.0098 RC3 -.3016 FAU .04371
 FOE .5100 FRA .0525 FC3-2.2895 BSP 15093
 BOE 1.0752 BRA 1.0933 BC3 5.0773 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 4781.6 SGR 491.6 SG3 172.6
 RRT .7076 RRF .7748 RTF .8937
 SGB 4806.8 R23 .1968 R13 .8947
 SG1 4794.3 SG2 346.5 THA 4.18

ORBIT DETERMINATION ACCURACY

ST 1571.3 SR 425.9 SS 427.7
 CRT .9312 CRS -.9969 CST -.9138
 LSA 1668.9 MSA 218.7 SSA 19.5
 EL1 1621.0 EL2 150.5 ALF 14.29

LAUNCH DATE MAR 4 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 467.173

RL 148.35 LAL .00 LOL 163.25 VL 26.817 GAL -2.67 AZL 86.96 MCA 229.96 SMA 124.02 ECC .20140 INC 3.0388 V1 30.035
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.157 GAP 9.08 AZP 91.96 TAL 190.71 TAP 60.67 RCA 99.04 APO 149.00 V2 34.990
 RC 165.276 GL 21.05 GP -24.20 ZAL 115.23 ZAP 151.95 ETS 305.81 ZAE 128.35 ETE 200.16 ZAC 143.21 ETC 192.00 CLP-165.37

PLANETOCENTRIC CONIC

C3 15.628 VHL 3.953 DLA 36.65 RAL 36.19 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 6.911 DPA -7.36 RAP 53.57 ECC 1.2572
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.69 18 3 17 4028.06 -26.78 173.52 263.49 63.98 19 10 26 3428.1 -30.05 165.63
 114.31 23 51 3 2930.17 -26.77 90.92 263.49 63.97 24 39 53 2330.2 -30.04 83.04
 65.69 18 3 17 4028.06 -26.78 173.52 263.49 63.98 19 10 26 3428.1 -30.05 165.63
 114.31 23 51 3 2930.17 -26.77 90.92 263.49 63.97 24 39 53 2330.2 -30.04 83.04
 65.69 18 3 17 4028.06 -26.78 173.52 263.49 63.98 19 10 26 3428.1 -30.05 165.63
 114.31 23 51 3 2930.17 -26.77 90.92 263.49 63.97 24 39 53 2330.2 -30.04 83.04

DIFFERENTIAL CORRECTIONS

TDE 1.0079 TRA -.9351 TC3-5.4572 BAU 1.1419
 RDE .2960 RRA -.0017 RC3 -.2997 FAU .04241
 FDE .4672 FRA .1226 FC3-2.3493 BSP 15352
 BOE 1.0504 BRA .9351 BC3 5.4654 FSP -553

MID-COURSE EXECUTION ACCURACY

SGT 4858.4 SGR 490.1 SG3 171.9
 RRT .6948 RRF .7487 RTF .8928
 SGB 4883.0 R23 .1739 R13 .8937
 SG1 4870.3 SG2 351.6 THA 4.03

ORBIT DETERMINATION ACCURACY

ST 1551.6 SR 429.0 SS 407.6
 CRT .9434 CRS -.9929 CST -.9089
 LSA 1647.4 MSA 208.0 SSA 22.1
 EL1 1603.9 EL2 137.6 ALF 14.73

LAUNCH DATE MAR 4 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 472.917

RL 148.35 LAL .00 LOL 163.25 VL 26.761 GAL -2.26 AZL 87.27 MCA 233.16 SMA 123.67 ECC .20324 INC 2.7302 V1 30.035
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.129 GAP 9.31 AZP 91.64 TAL 188.94 TAP 62.09 RCA 98.54 APO 148.81 V2 35.003
 RC 167.370 GL 19.28 GP -22.82 ZAL 112.74 ZAP 153.51 ETS 305.74 ZAE 128.83 ETE 199.17 ZAC 145.58 ETC 191.53 CLP-166.18

PLANETOCENTRIC CONIC

C3 14.888 VHL 3.859 DLA 35.91 RAL 40.22 RAD 6567.6 VEL 11.674 PTH 2.05 VHP 6.978 DPA -5.37 RAP 55.24 ECC 1.2450
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.92 18 26 3 3997.32 -26.60 170.95 266.50 64.92 19 32 40 3397.3 -29.74 163.02
 113.08 0 4 22 2939.13 -26.58 91.54 266.50 64.91 0 53 21 2339.1 -29.73 83.61
 66.92 18 26 3 3997.32 -26.60 170.95 266.50 64.92 19 32 40 3397.3 -29.74 163.02
 113.08 0 4 22 2939.13 -26.58 91.54 266.50 64.91 0 53 21 2339.1 -29.73 83.61
 66.92 18 26 3 3997.32 -26.60 170.95 266.50 64.92 19 32 40 3397.3 -29.74 163.02
 113.08 0 4 22 2939.13 -26.58 91.54 266.50 64.91 0 53 21 2339.1 -29.73 83.61

DIFFERENTIAL CORRECTIONS

TDE .9820 TRA -.7701 TC3-5.8247 BAU 1.1609
 RDE .2912 RRA .0066 RC3 -.2979 FAU .04097
 FDE .4240 FRA .1893 FC3-2.3824 BSP 15624
 BOE 1.0242 BRA .7701 BC3 5.8323 FSP -551

MID-COURSE EXECUTION ACCURACY

SGT 4932.0 SGR 489.9 SG3 170.6
 RRT .6816 RRF .7229 RTF .8928
 SGB 4956.2 R23 .1519 R13 .8935
 SG1 4943.3 SG2 357.6 THA 3.89

ORBIT DETERMINATION ACCURACY

ST 1524.4 SR 432.5 SS 386.2
 CRT .9555 CRS -.9855 CST -.9027
 LSA 1618.9 MSA 196.5 SSA 25.2
 EL1 1579.8 EL2 123.2 ALF 15.26

LAUNCH DATE MAR 4 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 478.648

RL 148.35 LAL .00 LOL 163.25 VL 26.705 GAL -1.84 AZL 87.55 MCA 236.35 SMA 123.33 ECC .20528 INC 2.4462 V1 30.035
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.101 GAP 9.55 AZP 91.36 TAL 187.16 TAP 63.51 RCA 98.01 APO 148.65 V2 35.016
 RC 169.445 GL 17.54 GP -21.59 ZAL 110.00 ZAP 154.95 ETS 305.51 ZAE 129.23 ETE 198.28 ZAC 147.95 ETC 191.08 CLP-166.98

PLANETOCENTRIC CONIC

C3 14.295 VHL 3.781 DLA 35.19 RAL 44.39 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 7.060 DPA -3.54 RAP 56.99 ECC 1.2353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.17 18 49 41 3967.26 -26.35 168.44 269.79 65.78 19 55 48 3367.3 -29.39 160.48
 111.83 0 13 58 2951.13 -26.34 92.37 269.78 65.77 1 3 9 2351.1 -29.37 84.41
 68.17 18 49 41 3967.26 -26.35 168.44 269.79 65.78 19 55 48 3367.3 -29.39 160.48
 111.83 0 13 58 2951.13 -26.34 92.37 269.78 65.77 1 3 9 2351.1 -29.37 84.41
 68.17 18 49 41 3967.26 -26.35 168.44 269.79 65.78 19 55 48 3367.3 -29.39 160.48
 111.83 0 13 58 2951.13 -26.34 92.37 269.78 65.77 1 3 9 2351.1 -29.37 84.41

DIFFERENTIAL CORRECTIONS

TDE .9560 TRA -.5947 TC3-6.1549 BAU 1.1776
 RDE .2881 RRA .0157 RC3 -.2951 FAU .03937
 FDE .3833 FRA .2552 FC3-2.3842 BSP 15819
 BOE .9985 BRA .5949 BC3 6.1619 FSP -542

MID-COURSE EXECUTION ACCURACY

SGT 4997.6 SGR 491.2 SG3 168.7
 RRT .6677 RRF .6983 RTF .8927
 SGB 5021.7 R23 .1331 R13 .8934
 SG1 5008.4 SG2 364.9 THA 3.77

ORBIT DETERMINATION ACCURACY

ST 1492.6 SR 436.8 SS 366.2
 CRT .9673 CRS -.9733 CST -.8951
 LSA 1586.7 MSA 184.8 SSA 28.7
 EL1 1551.5 EL2 106.5 ALF 15.88

LAUNCH DATE MAR 4 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 484.366

RL 148.35 LAL .00 LOL 163.25 VL 26.650 GAL -1.41 AZL 87.82 MCA 239.55 SMA 122.99 ECC .20753 INC 2.1823 V1 30.035
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.074 GAP 9.80 AZP 91.11 TAL 185.38 TAP 64.93 RCA 97.47 APO 148.52 V2 35.030
 RC 171.498 GL 15.83 GP -20.50 ZAL 107.02 ZAP 156.27 ETS 305.13 ZAE 129.59 ETE 197.47 ZAC 150.31 ETC 190.64 CLP-167.78

PLANETOCENTRIC CONIC

C3 13.840 VHL 3.720 DLA 34.46 RAL 48.68 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 7.154 DPA -1.85 RAP 58.83 ECC 1.2278
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.49 19 14 29 3936.98 -26.03 165.89 273.33 66.58 20 20 6 3337.0 -28.96 157.92
 110.51 0 23 27 2967.16 -26.01 93.47 273.33 66.56 1 12 54 2367.2 -28.95 85.50
 69.49 19 14 29 3936.98 -26.03 165.89 273.33 66.58 20 20 6 3337.0 -28.96 157.92
 110.51 0 23 27 2967.16 -26.01 93.47 273.33 66.56 1 12 54 2367.2 -28.95 85.50
 69.49 19 14 29 3936.98 -26.03 165.89 273.33 66.58 20 20 6 3337.0 -28.96 157.92
 110.51 0 23 27 2967.16 -26.01 93.47 273.33 66.56 1 12 54 2367.2 -28.95 85.50

DIFFERENTIAL CORRECTIONS

TDE .9215 TRA -.4132 TC3-6.4517 BAU 1.1950
 RDE .2855 RRA .0252 RC3 -.2932 FAU .03779
 FDE .3402 FRA .3172 FC3-2.3636 BSP 16060
 BOE .9647 BRA .4140 BC3 6.4583 FSP -536

MID-COURSE EXECUTION ACCURACY

SGT 5064.9 SGR 493.1 SG3 166.6
 RRT .6546 RRF .6750 RTF .8937
 SGB 5088.9 R23 .1149 R13 .8943
 SG1 5075.2 SG2 372.0 THA 3.67

ORBIT DETERMINATION ACCURACY

ST 1445.2 SR 440.0 SS 343.5
 CRT .9778 CRS -.9538 CST -.8840
 LSA 1539.2 MSA 173.3 SSA 32.9
 EL1 1508.1 EL2 88.4 ALF 16.64

LAUNCH DATE MAR 4 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.596 GAL -.96 AZL 88.06 MCA 242.75 SMA 122.66 ECC .21001 INC 1.9350 VI 30.035
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.048 GAP 10.06 AZP 90.89 TAL 183.60 TAP 66.34 RCA 96.90 APO 148.42 V2 35.043
 RC 175.532 GL 14.14 GP -19.51 ZAL 103.82 ZAP 157.50 ETS 304.59 ZAE 129.91 ETE 196.75 ZAC 152.68 ETC 190.21 CLP-168.58

PLANETOCENTRIC CONIC

C3 13.519 VHL 3.677 CLA 33.69 RAL 53.09 RAD 6567.5 VEL 11.615 PTH 2.04 VHP 7.261 DPA -.29 RAP 60.74 ECC 1.2225
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.94 19 40 46 3905.31 -25.61 163.23 277.13 67.33 20 45 52 3305.3 -28.46 155.25
 109.06 0 32 20 2988.57 -25.60 94.95 277.12 67.31 1 22 9 2388.6 -28.44 86.97
 70.94 19 40 46 3905.31 -25.61 163.23 277.13 67.33 20 45 52 3305.3 -28.46 155.25
 109.06 0 32 20 2988.57 -25.60 94.95 277.12 67.31 1 22 9 2388.6 -28.44 86.97
 110.00 1 22 3 2836.55 -29.22 84.66 278.66 71.42 2 9 20 2236.5 -31.48 76.17
 110.00 23 50 14 3105.33 -22.10 102.27 275.36 63.23 24 41 59 2505.3 -25.51 94.77

DIFFERENTIAL CORRECTIONS

TDE .8798 TRA -.2235 TC3-6.6958 BAU 1.2113
 RDE .2837 RRA .0352 RC3 -.2907 FAU .03616
 FDE .2966 FRA .3758 FC3-2.3159 BSP 16307
 BDE .9244 BRA .2263 BC3 6.7021 FSP -531

DISTANCE 490.068

MID-COURSE EXECUTION ACCURACY

SGT 5128.3 SGR 495.4 SG3 164.1
 RRT .6419 RRF .6531 RTF .8955
 SGB 5152.1 R23 .0980 R13 .8960
 SG1 5158.2 SG2 379.1 THA 3.57

ORBIT DETERMINATION ACCURACY

ST 1384.6 SR 442.5 SS 320.4
 CRT .9865 CRS -.9239 CST -.8693
 LSA 1479.1 MSA 162.7 SSA 37.6
 EL1 1452.0 EL2 69.0 ALF 17.54

LAUNCH DATE MAR 4 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.542 GAL -.49 AZL 88.30 MCA 245.95 SMA 122.34 ECC .21273 INC 1.7015 VI 30.035
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.022 GAP 10.33 AZP 90.69 TAL 181.81 TAP 67.76 RCA 96.32 APO 148.37 V2 35.056
 RC 175.544 GL 12.46 GP -18.63 ZAL 100.44 ZAP 158.64 ETS 303.89 ZAE 130.19 ETE 196.09 ZAC 155.06 ETC 189.77 CLP-169.37

PLANETOCENTRIC CONIC

C3 13.331 VHL 3.651 CLA 32.87 RAL 57.59 RAD 6567.5 VEL 11.607 PTH 2.03 VHP 7.379 DPA 1.16 RAP 62.72 ECC 1.2194
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.57 20 8 57 3870.81 -25.10 160.33 281.15 68.05 21 13 28 3270.8 -27.85 152.35
 107.43 0 40 5 3016.99 -25.09 96.91 281.14 68.03 1 30 22 2417.0 -27.84 88.94
 72.57 20 8 57 3870.81 -25.10 160.33 281.15 68.05 21 13 28 3270.8 -27.85 152.35
 107.43 0 40 5 3016.99 -25.09 96.91 281.14 68.03 1 30 22 2417.0 -27.84 88.94
 110.00 2 7 34 2747.87 -30.98 78.35 283.39 74.77 2 53 22 2147.9 -32.76 69.58
 110.00 23 40 39 3187.92 -19.48 107.25 278.28 61.34 24 33 46 2587.9 -23.15 100.03

DIFFERENTIAL CORRECTIONS

TDE .8275 TRA -.0249 TC3-6.8793 BAU 1.2271
 RDE .2821 RRA .0460 RC3 -.2875 FAU .03454
 FDE .2509 FRA .4324 FC3-2.2431 BSP 16532
 BDE .8742 BRA .0523 BC3 6.8853 FSP -524

DISTANCE 495.755

MID-COURSE EXECUTION ACCURACY

SGT 5188.8 SGR 497.4 SG3 161.4
 RRT .6297 RRF .6323 RTF .8976
 SGB 5212.6 R23 .0822 R13 .8980
 SG1 5198.3 SG2 385.7 THA 3.47

ORBIT DETERMINATION ACCURACY

ST 1307.3 SR 443.4 SS 296.4
 CRT .9925 CRS -.8771 CST -.8477
 LSA 1402.7 MSA 155.6 SSA 42.6
 EL1 1379.5 EL2 51.3 ALF 18.63

LAUNCH DATE MAR 4 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.489 GAL -.01 AZL 88.52 MCA 249.15 SMA 122.02 ECC .21572 INC 1.4791 VI 30.035
 RP 108.06 LAP -1.38 LOP 52.39 VP 36.996 GAP 10.61 AZP 90.53 TAL 180.03 TAP 69.18 RCA 95.70 APO 148.35 V2 35.069
 RC 177.535 GL 10.81 GP -17.84 ZAL 96.91 ZAP 159.70 ETS 303.01 ZAE 130.44 ETE 195.49 ZAC 157.43 ETC 189.31 CLP-170.15

PLANETOCENTRIC CONIC

C3 13.280 VHL 3.644 CLA 31.99 RAL 62.16 RAD 6567.5 VEL 11.605 PTH 2.03 VHP 7.509 DPA 2.49 RAP 64.77 ECC 1.2185
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.46 20 39 40 3831.08 -24.48 157.02 285.37 68.74 21 43 31 3231.1 -27.15 149.06
 105.54 0 45 46 3055.04 -24.47 99.55 285.37 68.73 1 36 41 2455.0 -27.14 91.59
 74.46 20 39 40 3831.08 -24.48 157.02 285.37 68.74 21 43 31 3231.1 -27.15 149.06
 105.54 0 45 46 3055.04 -24.47 99.55 285.37 68.73 1 36 41 2455.0 -27.14 91.59
 110.00 2 46 33 2681.12 -32.07 73.45 287.99 77.48 3 31 14 2081.1 -33.46 64.50
 110.00 23 38 3 3253.00 -17.31 111.05 281.70 60.05 24 32 16 2653.0 -21.16 104.03

DIFFERENTIAL CORRECTIONS

TDE .6480 TRA .1765 TC3-7.1984 BAU 1.2793
 RDE .2537 RRA .0590 RC3 -.3271 FAU .03636
 FDE .0655 FRA .4933 FC3-2.3701 BSP 17816
 BDE .6959 BRA .1861 BC3 7.2058 FSP -616

DISTANCE 501.423

MID-COURSE EXECUTION ACCURACY

SGT 5354.4 SGR 477.3 SG3 169.1
 RRT .6624 RRF .5918 RTF .9033
 SGB 5375.6 R23 -.0123 R13 .9033
 SG1 5363.7 SG2 357.0 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1035.5 SR 400.2 SS 193.1
 CRT .9908 CRS -.4234 CST -.4542
 LSA 1112.5 MSA 172.2 SSA 49.0
 EL1 1109.1 EL2 50.5 ALF 21.00

LAUNCH DATE MAR 4 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.436 GAL .49 AZL 88.73 MCA 252.36 SMA 121.71 ECC .21898 INC 1.2658 VI 30.035
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.971 GAP 10.90 AZP 90.38 TAL 178.24 TAP 70.60 RCA 95.06 APO 148.37 V2 35.083
 RC 179.506 GL 9.19 GP -17.12 ZAL 93.24 ZAP 160.69 ETS 301.96 ZAE 130.67 ETE 194.95 ZAC 159.82 ETC 188.81 CLP-170.93

PLANETOCENTRIC CONIC

C3 13.369 VHL 3.656 CLA 31.03 RAL 66.75 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 7.650 DPA 3.73 RAP 66.86 ECC 1.2200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.75 21 13 49 3782.79 -23.75 153.06 289.77 69.41 22 16 52 3182.8 -26.33 145.12
 103.25 0 48 14 3106.23 -23.73 103.12 289.77 69.40 1 40 1 2506.2 -26.32 95.18
 76.75 21 13 49 3782.79 -23.75 153.06 289.77 69.41 22 16 52 3182.8 -26.33 145.12
 103.25 0 48 14 3106.23 -23.73 103.12 289.77 69.40 1 40 1 2506.2 -26.32 95.18
 110.00 3 22 54 2624.26 -32.83 69.19 292.60 79.89 4 6 38 2024.3 -33.88 60.11
 110.00 23 38 20 3312.76 -15.25 114.45 285.42 59.03 24 33 33 2712.8 -19.24 107.61

DIFFERENTIAL CORRECTIONS

TDE .6988 TRA .4088 TC3-6.9993 BAU 1.2519
 RDE .2822 RRA .0713 RC3 -.2728 FAU .03098
 FDE .1668 FRA .5458 FC3-2.0062 BSP 16821
 BDE .7536 BRA .4150 BC3 7.0046 FSP -498

MID-COURSE EXECUTION ACCURACY

SGT 5287.3 SGR 502.3 SG3 155.0
 RRT .6034 RRF .5975 RTF .9007
 SGB 5311.1 R23 .0638 R13 .9010
 SG1 5296.0 SG2 399.9 THA 3.30

ORBIT DETERMINATION ACCURACY

ST 1128.3 SR 444.0 SS 264.3
 CRT .9860 CRS -.7184 CST -.7982
 LSA 1228.7 MSA 167.8 SSA 47.0
 EL1 1210.5 EL2 68.9 ALF 21.28

LAUNCH DATE MAR 4 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 512.694

RL 148.35 LAL .00 LOL 163.25 VL 26.384 GAL 1.01 AZL 88.94 HCA 255.57 SMA 121.41 ECC .22254 INC 1.0599 V1 30.035
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.946 GAP 11.20 A7P 90.26 TAL 176.45 TAP 72.02 RCA 94.39 APO 148.43 V2 35.095
 RC 181.455 GL 7.60 GP -16.47 ZAL 89.50 ZAP 161.61 ETS 300.72 ZAE 130.89 ETE 194.46 ZAC 162.20 ETC 188.24 CLP-171.70

PLANETOCENTRIC CONIC

C3 13.609 VHL 3.689 DLA 30.00 RAL 71.32 RAD 6567.5 VEL 11.619 PTH 2.04 VHP 7.803 DPA 4.87 RAP 69.01 ECC 1.2240
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.66 21 53 29 3718.64 -22.90 147.92 294.31 70.08 22 55 28 3118.6 -25.40 140.01
 100.34 0 45 3 3178.13 -22.89 108.15 294.30 70.06 1 38 1 2578.1 -25.40 100.24
 79.66 21 53 29 3718.64 -22.90 147.92 294.31 70.08 22 55 28 3118.6 -25.40 140.01
 100.34 0 45 3 3178.13 -22.89 108.15 294.30 70.06 1 38 1 2578.1 -25.40 100.24
 110.00 3 57 38 2573.64 -33.37 65.34 297.24 82.11 4 40 32 1973.6 -34.10 56.17
 110.00 23 40 4 3371.13 -13.18 117.70 289.36 58.17 24 36 15 2771.1 -17.29 111.01

DIFFERENTIAL CORRECTIONS

TDE .6118 TRA .6375 TC3-6.9492 BAU 1.2652
 ROE .2821 RRA .0845 RC3 -.2653 FAU .02943
 FDE .1196 FRA .5970 FC3-1.8725 BSP 17059
 BDE .6737 BRA .6431 BC3 6.9543 FSP -494

MID-COURSE EXECUTION ACCURACY

SGT 5338.3 SGR 503.3 SG3 151.9
 RRT .5930 RRF .5812 RTF .9042
 SGB 5362.0 R23 .0520 R13 .9044
 SG1 5346.7 SG2 404.6 THA 3.22

ORBIT DETERMINATION ACCURACY

ST 1021.8 SR 440.6 SS 251.7
 CRT .9615 CRS -.5852 CST -.7682
 LSA 1123.2 MSA 194.9 SSA 44.6
 EL1 1107.1 EL2 111.8 ALF 22.76

LAUNCH DATE MAR 4 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 518.292

RL 148.35 LAL .00 LOL 163.25 VL 26.333 GAL 1.56 AZL 89.14 HCA 258.78 SMA 121.11 ECC .22643 INC .8597 V1 30.035
 RP 107.94 LAP -.84 LOP 62.03 VP 36.922 GAP 11.53 A7P 90.17 TAL 174.67 TAP 73.46 RCA 93.69 APO 148.53 V2 35.108
 RC 183.384 GL 6.06 GP -15.88 ZAL 85.71 ZAP 162.47 ETS 299.29 ZAE 131.08 ETE 194.02 ZAC 164.60 ETC 187.56 CLP-172.47

PLANETOCENTRIC CONIC

C3 14.010 VHL 3.743 DLA 28.89 RAL 75.83 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 7.969 DPA 5.92 RAP 71.21 ECC 1.2306
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.02 22 45 42 3615.30 -21.95 139.91 298.95 70.72 23 45 57 3015.3 -24.37 132.04
 95.98 0 28 52 3294.20 -21.93 116.37 298.95 70.71 1 23 46 2694.2 -24.36 108.50
 100.00 2 5 30 2983.75 -26.82 95.03 300.54 76.27 2 55 14 2383.8 -28.44 86.60
 100.00 23 51 44 3400.98 -17.22 122.22 296.93 65.18 24 48 25 2801.0 -20.43 114.89
 110.00 4 31 5 2527.92 -33.74 61.82 301.92 84.16 5 13 13 1927.9 -34.18 52.60
 110.00 23 42 39 3429.57 -11.06 120.90 293.45 57.45 24 39 49 2829.6 -15.27 114.34

DIFFERENTIAL CORRECTIONS

TDE .5135 TRA .8785 TC3-6.8094 BAU 1.2763
 ROE .2828 RRA .0987 RC3 -.2545 FAU .02781
 FDE .0741 FRA .6478 FC3-1.7186 BSP 17247
 BDE .5862 BRA .8840 BC3 6.8141 FSP -486

MID-COURSE EXECUTION ACCURACY

SGT 5381.6 SGR 503.5 SG3 148.4
 RRT .5818 RRF .5661 RTF .9072
 SGB 5405.1 R23 .0433 R13 .9074
 SG1 5389.6 SG2 408.9 THA 3.13

ORBIT DETERMINATION ACCURACY

ST 923.9 SR 436.1 SS 248.1
 CRT .9061 CRS -.4259 CST -.7560
 LSA 1023.2 MSA 238.1 SSA 40.2
 EL1 1007.5 EL2 169.2 ALF 23.87

LAUNCH DATE MAR 4 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 523.861

RL 148.35 LAL .00 LOL 163.25 VL 26.283 GAL 2.12 AZL 89.34 HCA 262.00 SMA 120.82 ECC .23067 INC .6637 V1 30.035
 RP 107.90 LAP -.66 LOP 65.25 VP 36.898 GAP 11.86 A7P 90.09 TAL 172.89 TAP 74.89 RCA 92.95 APO 148.69 V2 35.120
 RC 185.291 GL 4.57 GP -15.34 ZAL 81.92 ZAP 163.27 ETS 297.66 ZAE 131.26 ETE 193.61 ZAC 166.99 ETC 186.70 CLP-173.24

PLANETOCENTRIC CONIC

C3 14.586 VHL 3.819 DLA 27.72 RAL 80.25 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 8.148 DPA 6.89 RAP 73.45 ECC 1.2401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 51 3297.78 -24.60 117.51 304.87 75.51 1 42 49 2697.8 -26.35 109.28
 90.00 23 1 58 3629.54 -17.27 139.05 302.23 67.21 24 2 27 3029.5 -20.21 131.60
 100.00 2 53 38 2892.31 -28.13 88.55 305.74 79.44 3 41 51 2292.3 -29.30 79.94
 100.00 23 38 52 3510.25 -13.99 128.72 300.65 63.31 24 37 22 2910.2 -17.46 121.65
 110.00 5 3 17 2486.57 -33.98 58.62 306.61 86.05 5 44 43 1886.6 -34.16 49.38
 110.00 23 45 43 3488.75 -8.87 124.09 297.65 56.85 24 43 51 2888.7 -13.18 117.64

DIFFERENTIAL CORRECTIONS

TDE .4064 TRA 1.1343 TC3-6.5824 BAU 1.2845
 ROE .2844 RRA .1139 RC3 -.2409 FAU .02615
 FDE .0303 FRA .6996 FC3-1.5521 BSP 17330
 BDE .4960 BRA 1.1400 BC3 6.5868 FSP -474

MID-COURSE EXECUTION ACCURACY

SGT 5417.2 SGR 503.1 SG3 144.9
 RRT .5710 RRF .5526 RTF .9099
 SGB 5440.6 R23 .0366 R13 .9101
 SG1 5424.9 SG2 412.5 THA 3.05

ORBIT DETERMINATION ACCURACY

ST 852.6 SR 430.6 SS 253.7
 CRT .8017 CRS -.2591 CST -.7753
 LSA 943.0 MSA 293.7 SSA 35.4
 EL1 925.3 EL2 237.2 ALF 23.69

LAUNCH DATE MAR 4 1969

FLIGHT TIME 180.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 529.396

RL 148.35 LAL .00 LOL 163.25 VL 26.233 GAL 2.71 AZL 89.53 HCA 265.22 SMA 120.53 ECC .23530 INC .4705 V1 30.035
 RP 107.87 LAP -.47 LOP 68.46 VP 36.874 GAP 12.22 A7P 90.04 TAL 171.13 TAP 76.34 RCA 92.17 APO 148.89 V2 35.132
 RC 187.175 GL 3.15 GP -14.85 ZAL 78.15 ZAP 164.01 ETS 295.81 ZAE 131.43 ETE 193.24 ZAC 169.39 ETC 185.52 CLP-174.00

PLANETOCENTRIC CONIC

C3 15.356 VHL 3.919 DLA 26.50 RAL 84.54 RAD 6567.6 VEL 11.694 PTH 2.06 VHP 8.340 DPA 7.78 RAP 75.72 ECC 1.2527
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 52 3183.78 -26.30 109.60 310.27 79.12 2 35 56 2583.8 -27.54 101.15
 90.00 22 41 10 3766.54 -13.48 147.31 305.85 64.86 23 43 56 3166.5 -16.76 140.17
 100.00 3 34 24 2824.24 -28.88 83.63 310.76 81.93 4 21 28 2224.2 -29.69 74.92
 100.00 23 32 19 3601.31 -11.14 133.98 304.66 62.08 24 32 20 3001.3 -14.79 127.09
 110.00 5 34 10 2449.47 -34.12 55.73 311.31 87.75 6 15 0 1849.5 -34.05 46.48
 110.00 23 49 2 3548.85 -6.62 127.29 301.93 56.39 24 48 11 2948.8 -10.99 120.93

DIFFERENTIAL CORRECTIONS

TDE .2836 TRA 1.3988 TC3-6.2940 BAU 1.2930
 ROE .2863 RRA .1294 RC3 -.2260 FAU .02458
 FDE -.0147 FRA .7490 FC3-1.3855 BSP 17504
 BDE .4030 BRA 1.4048 BC3 6.2980 FSP -466

MID-COURSE EXECUTION ACCURACY

SGT 5452.3 SGR 501.3 SG3 141.4
 RRT .5600 RRF .5390 RTF .9129
 SGB 5475.3 R23 .0299 R13 .9130
 SG1 5459.6 SG2 414.7 THA 2.96

ORBIT DETERMINATION ACCURACY

ST 814.8 SR 423.4 SS 266.0
 CRT .6315 CRS -.0925 CST -.8231
 LSA 887.8 MSA 353.3 SSA 31.2
 EL1 864.5 EL2 309.4 ALF 20.98

LAUNCH DATE MAR 4 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.184 GAL 3.32 AZL 89.72 MCA 268.44 SMA 120.25 ECC .24034 INC .2792 V1 30.035
 RP 107.83 LAP -.28 LOP 71.68 VP 36.850 GAP 12.60 AZP 90.01 TAL 169.37 TAP 77.80 RCA 91.35 APO 149.15 V2 35.144
 RC 189.037 GL 1.81 GP -14.41 ZAL 74.46 ZAP 164.69 ETS 293.73 ZAE 131.58 ETE 192.90 ZAC 171.78 ETC 183.72 CLP-174.76

PLANETOCENTRIC CONIC

C3 16.340 VHL 4.042 DLA 25.25 RAL 88.67 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 8.548 DPA 8.59 RAP 78.03 ECC 1.2689
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 54 3107.93 -27.17 104.22 315.36 81.69 3 17 42 2507.9 -28.04 95.66
 90.00 22 31 3 3870.54 -10.39 153.39 309.83 63.51 23 35 34 3270.5 -13.87 146.44
 100.00 4 10 57 2769.21 -29.34 79.61 315.67 84.00 4 57 6 2169.2 -29.86 70.84
 100.00 23 28 40 3684.49 -8.45 138.69 308.80 61.22 24 30 5 3084.5 -12.23 131.94
 110.00 6 3 39 2416.64 -34.18 53.16 316.00 89.27 6 43 55 1816.6 -33.90 43.93
 110.00 23 52 28 3609.83 -4.31 130.50 306.26 56.06 24 52 38 3009.8 -8.74 124.21

DIFFERENTIAL CORRECTIONS

TDE .1500 TRA 1.6769 TC3-5.9473 BAU 1.3000
 RDE .2889 RRA .1455 RC3 -.2096 FAU .02304
 FDE -.0585 FRA .7986 FC3-1.2208 BSP 17651
 BDE .3255 BRA 1.6832 BC3 5.9510 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 5483.4 SGR 498.4 SG3 137.9
 RRT .5493 RRF .5264 RTF .9160
 SGB 5506.0 R23 .0243 R13 .9161
 SG1 5490.3 SG2 416.0 THA 2.87

ORBIT DETERMINATION ACCURACY

ST 829.1 SR 415.2 SS 284.8
 CRT .4117 CRS .0508 CST -.8838
 LSA 884.2 MSA 398.1 SSA 27.5
 EL1 850.8 EL2 368.8 ALF 14.41

LAUNCH DATE MAR 4 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.136 GAL 3.97 AZL 89.91 MCA 271.66 SMA 119.98 ECC .24584 INC .0876 V1 30.035
 RP 107.79 LAP -.09 LOP 74.91 VP 36.826 GAP 13.01 AZP 90.00 TAL 167.62 TAP 79.28 RCA 90.48 APO 149.47 V2 35.155
 RC 190.875 GL .55 GP -14.00 ZAL 70.86 ZAP 165.32 ETS 291.42 ZAE 131.72 ETE 192.58 ZAC 174.16 ETC 180.56 CLP-175.53

PLANETOCENTRIC CONIC

C3 17.563 VHL 4.191 DLA 23.97 RAL 92.61 RAD 6567.7 VEL 11.788 PTH 2.08 VHP 8.772 DPA 9.32 RAP 80.37 ECC 1.2890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 3 20 3049.49 -27.67 100.02 320.30 83.73 3 54 9 2449.5 -28.25 91.40
 90.00 22 25 3 3962.22 -7.56 158.64 313.96 62.63 23 31 5 3362.2 -11.17 151.82
 100.00 4 44 23 2723.67 -29.62 76.25 320.50 85.74 5 29 47 2123.7 -29.89 67.46
 100.00 23 26 41 3763.27 -5.84 143.09 313.03 60.63 24 29 24 3163.3 -9.71 136.44
 110.00 6 31 37 2388.19 -34.18 50.94 320.67 90.58 7 11 25 1788.2 -33.72 41.73
 110.00 23 55 57 3671.52 -1.96 133.73 310.62 55.87 24 57 8 3071.5 -6.43 127.49

DIFFERENTIAL CORRECTIONS

TDE .0067 TRA 1.9689 TC3-5.5542 BAU 1.3049
 RDE .2924 RRA .1621 RC3 -.1920 FAU .02154
 FDE -.1011 FRA .8481 FC3-1.0616 BSP 17783
 BDE .2925 BRA 1.9756 BC3 5.5575 FSP -448

MID-COURSE EXECUTION ACCURACY

SGT 5509.2 SGR 494.5 SG3 134.4
 RRT .5386 RRF .5143 RTF .9192
 SGB 5531.4 R23 .0194 R13 .9192
 SG1 5515.7 SG2 416.1 THA 2.78

ORBIT DETERMINATION ACCURACY

ST 894.8 SR 406.3 SS 307.6
 CRT .1888 CRS .1662 CST -.9332
 LSA 942.9 MSA 413.2 SSA 24.6
 EL1 898.9 EL2 397.2 ALF 6.10

LAUNCH DATE MAR 4 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.088 GAL 4.65 AZL 90.10 MCA 274.88 SMA 119.71 ECC .25184 INC .1021 V1 30.035
 RP 107.76 LAP .10 LOP 78.13 VP 36.803 GAP 13.44 AZP 90.01 TAL 165.88 TAP 80.77 RCA 89.56 APO 149.85 V2 35.166
 RC 192.690 GL -.61 GP -13.63 ZAL 67.39 ZAP 165.89 ETS 288.86 ZAE 131.85 ETE 192.29 ZAC 176.50 ETC 173.29 CLP-176.29

PLANETOCENTRIC CONIC

C3 19.057 VHL 4.365 DLA 22.70 RAL 96.35 RAD 6567.8 VEL 11.851 PTH 2.10 VHP 9.014 DPA 9.98 RAP 82.74 ECC 1.3136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 56 3002.71 -27.97 96.63 325.14 85.41 4 26 59 2402.7 -28.32 87.98
 90.00 22 21 17 4047.21 -4.87 163.44 318.17 62.07 23 28 45 3447.2 -8.57 156.71
 100.00 5 15 10 2685.98 -29.77 73.46 325.27 87.20 5 59 56 2086.0 -29.84 64.65
 100.00 23 25 45 3839.17 -3.29 147.28 317.30 60.27 24 29 44 3239.2 -7.23 140.70
 110.00 6 58 1 2364.21 -34.15 49.07 325.32 91.69 7 37 26 1764.2 -33.54 39.88
 110.00 0 3 19 3733.71 .42 136.97 314.98 55.82 1 5 33 3133.7 -4.07 130.76

DIFFERENTIAL CORRECTIONS

TDE -.1430 TRA 2.2791 TC3-5.1235 BAU 1.3061
 RDE .2969 RRA .1792 RC3 -.1729 FAU .01999
 FDE -.1413 FRA .8993 FC3 -.9083 BSP 17821
 BDE .3295 BRA 2.2862 BC3 5.1265 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 5528.1 SGR 489.5 SG3 131.0
 RRT .5279 RRF .5031 RTF .9221
 SGB 5549.7 R23 .0160 R13 .9221
 SG1 5534.2 SG2 415.3 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 999.7 SR 397.1 SS 332.5
 CRT .0047 CRS .0526 CST -.9637
 LSA 1050.2 MSA 405.3 SSA 22.2
 EL1 999.7 EL2 397.1 ALF .13

LAUNCH DATE MAR 4 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 26.041 GAL 5.36 AZL 90.30 MCA 278.11 SMA 119.44 ECC .25839 INC .2964 V1 30.035
 RP 107.73 LAP .29 LOP 81.36 VP 36.780 GAP 13.90 AZP 90.04 TAL 164.17 TAP 82.28 RCA 88.58 APO 150.31 V2 35.177
 RC 194.480 GL -1.68 GP -13.29 ZAL 64.06 ZAP 166.40 ETS 286.04 ZAE 131.96 ETE 192.01 ZAC 178.58 ETC 141.87 CLP-177.06

PLANETOCENTRIC CONIC

C3 20.859 VHL 4.567 DLA 21.44 RAL 99.88 RAD 6567.8 VEL 11.926 PTH 2.12 VHP 9.276 DPA 10.56 RAP 85.12 ECC 1.3433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 29 2965.06 -28.15 93.89 329.90 86.77 4 56 54 2365.1 -28.30 85.23
 90.00 22 18 54 4127.84 -2.29 167.96 322.42 61.77 23 27 42 3527.8 -6.05 161.29
 100.00 5 43 35 2655.19 -29.85 71.17 329.98 88.40 6 27 50 2055.2 -29.76 62.37
 100.00 23 25 29 3912.94 -.80 151.33 321.59 60.12 24 30 42 3312.9 -4.77 144.79
 110.00 7 22 49 2344.75 -34.10 47.55 329.94 92.59 8 1 54 1744.7 -33.36 38.39
 110.00 0 6 41 3796.15 2.80 140.23 319.35 55.92 1 9 57 3196.1 -1.69 134.03

DIFFERENTIAL CORRECTIONS

TDE -.3051 TRA 2.6015 TC3-4.6847 BAU 1.3071
 RDE .3021 RRA .1961 RC3 -.1543 FAU .01857
 FDE -.1816 FRA .9497 FC3 -.7707 BSP 17940
 BDE .4294 BRA 2.6089 BC3 4.6872 FSP -427

MID-COURSE EXECUTION ACCURACY

SGT 5545.5 SGR 483.1 SG3 127.7
 RRT .5169 RRF .4916 RTF .9255
 SGB 5566.5 R23 .0124 R13 .9255
 SG1 5551.2 SG2 413.1 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 1126.7 SR 387.2 SS 358.3
 CRT -.1401 CRS .3225 CST -.9805
 LSA 1182.2 MSA 387.2 SSA 20.2
 EL1 1128.2 EL2 382.9 ALF 176.88

LAUNCH DATE MAR 4 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 556.371

RL 148.35 LAL .00 LOL 163.25 VL 25.995 GAL 6.11 AZL 90.49 HCA 281.34 SMA 119.19 ECC .26555 INC .4932 VI 30.035
 RP 107.70 LAP .48 LOP 84.58 VP 36.757 GAP 14.39 AZP 90.10 TAL 162.47 TAP 83.81 RCA 87.54 APO 150.84 V2 35.187
 RC 196.245 GL -2.66 GP -12.98 ZAL 60.90 ZAP 166.85 ETS 282.97 ZAE 132.05 ETE 191.76 ZAC 178.18 ETC 46.83 CLP-177.84

PLANETOCENTRIC CONIC

C3 23.013 VHL 4.797 CLA 20.22 RAL 103.19 RAD 6567.9 VEL 12.016 PTH 2.14 VHP 9.561 OPA 11.08 RAP 87.52 ECC 1.3787
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 35 24 2935.15 -28.24 91.70 334.59 87.86 5 24 19 2335.2 -28.24 83.04
 90.00 22 17 26 4205.26 .21 172.27 326.70 61.68 23 27 31 3605.3 -3.58 165.64
 100.00 6 9 49 2630.72 -29.89 69.35 334.63 89.36 6 53 39 2030.7 -29.65 60.56
 100.00 23 25 43 3984.93 1.65 155.28 325.90 60.15 24 32 8 3384.9 -2.34 148.76
 110.00 7 46 0 2329.79 -34.04 46.39 334.52 93.28 8 24 50 1729.8 -33.22 37.24
 110.00 0 9 57 3858.61 5.18 143.51 323.70 56.16 1 14 15 3258.6 .70 137.28

DIFFERENTIAL CORRECTIONS

TOE -.4754 TRA 2.9413 TC3-4.2407 BAU 1.3054
 RDE .3083 RRA .2129 RC3 -.1358 FAU .01718
 FDE -.2208 FRA 1.0010 FC3 -.6462 BSP 18036
 BDE .5666 BRA 2.9490 BC3 4.2429 FSP -418

MID-COURSE EXECUTION ACCURACY

SGT 5558.0 SGR 475.3 SG3 124.5
 RRT .5055 RRF .4801 RTF .9290
 SGB 5578.3 R23 .0092 R13 .9291
 SG1 5553.2 S62 409.8 THA 2.49

ORBIT DETERMINATION ACCURACY

ST 1264.4 SR 377.1 SS 383.9
 CRT -.2460 CRS .3763 CST -.9892
 LSA 1324.1 MSA 366.8 SSA 18.6
 EL1 1268.1 EL2 364.4 ALF 175.43

LAUNCH DATE MAR 4 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 561.570

RL 148.35 LAL .00 LOL 163.25 VL 25.950 GAL 6.01 AZL 90.69 HCA 284.57 SMA 118.93 ECC .27339 INC .6949 VI 30.035
 RP 107.67 LAP .67 LOP 87.81 VP 36.734 GAP 14.93 AZP 90.17 TAL 160.80 TAP 85.37 RCA 86.42 APO 151.45 V2 35.196
 RC 197.986 GL -3.54 GP -12.69 ZAL 57.90 ZAP 167.24 ETS 279.64 ZAE 132.13 ETE 191.52 ZAC 175.98 ETC 26.28 CLP-178.62

PLANETOCENTRIC CONIC

C3 25.574 VHL 5.057 CLA 19.03 RAL 106.29 RAD 6568.0 VEL 12.122 PTH 2.17 VHP 9.870 OPA 11.53 RAP 89.94 ECC 1.4209
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 58 2912.07 -28.29 90.02 339.21 88.71 5 49 30 2312.1 -28.17 81.35
 90.00 22 16 37 4280.10 2.62 176.45 330.98 61.79 23 27 57 3680.1 -1.17 169.82
 100.00 6 34 0 2612.06 -29.89 67.97 339.23 90.09 7 17 32 2012.1 -29.56 59.18
 100.00 23 26 15 4055.34 4.02 159.15 330.20 60.35 24 33 51 3455.3 .05 152.62
 110.00 8 7 35 2319.28 -34.00 45.57 339.07 93.76 8 46 14 1719.3 -33.11 36.44
 110.00 0 13 6 3920.90 7.53 146.80 328.04 56.56 1 18 27 3320.9 3.08 140.54

DIFFERENTIAL CORRECTIONS

TOE -.6539 TRA 3.2995 TC3-3.8025 BAU 1.3007
 RDE .3154 RRA .2294 RC3 -.1178 FAU .01582
 FDE -.2588 FRA 1.0539 FC3 -.5354 BSP 18120
 BDE .7260 BRA 3.3074 BC3 3.8043 FSP -409

MID-COURSE EXECUTION ACCURACY

SGT 5565.7 SGR 466.4 SG3 121.4
 RRT .4934 RRF .4685 RTF .9327
 SGB 5585.2 R23 .0067 R13 .9327
 SG1 5570.5 S62 405.3 THA 2.38

ORBIT DETERMINATION ACCURACY

ST 1403.4 SR 366.8 SS 408.8
 CRT -.3235 CRS .4178 CST -.9938
 LSA 1466.4 MSA 347.2 SSA 17.2
 EL1 1408.8 EL2 345.8 ALF 174.86

LAUNCH DATE MAR 4 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 566.678

RL 148.35 LAL .00 LOL 163.25 VL 25.905 GAL 7.76 AZL 90.90 HCA 287.80 SMA 118.69 ECC .28198 INC .9024 VI 30.035
 RP 107.64 LAP .86 LOP 91.05 VP 36.711 GAP 15.51 AZP 90.28 TAL 159.16 TAP 86.96 RCA 85.22 APO 152.16 V2 35.205
 RC 199.701 GL -4.34 GP -12.43 ZAL 55.08 ZAP 167.56 ETS 276.06 ZAE 132.20 ETE 191.29 ZAC 173.65 ETC 20.49 CLP-179.42

PLANETOCENTRIC CONIC

C3 28.606 VHL 5.348 CLA 17.90 RAL 109.18 RAD 6568.1 VEL 12.247 PTH 2.20 VHP 10.207 OPA 11.91 RAP 92.35 ECC 1.4708
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 23 2895.14 -28.31 88.78 343.78 89.33 6 12 38 2295.1 -28.10 80.12
 90.00 22 16 14 4352.72 4.95 180.52 335.26 62.08 23 28 47 3752.7 1.18 173.87
 100.00 6 56 17 2598.82 -29.89 66.98 343.78 90.61 7 39 36 1998.8 -29.48 58.20
 100.00 23 27 2 4124.27 6.33 162.97 334.50 60.73 24 35 46 3524.3 2.38 156.41
 110.00 8 27 37 2313.06 -33.97 45.09 343.58 94.04 9 6 10 1713.1 -33.04 35.97
 110.00 0 16 7 3982.80 9.84 150.11 332.37 57.10 1 22 30 3382.8 5.43 143.78

DIFFERENTIAL CORRECTIONS

TOE -.8368 TRA 3.6814 TC3-3.3736 BAU 1.2908
 RDE .3239 RRA .2456 RC3 -.1004 FAU .01444
 FDE -.2945 FRA 1.1097 FC3 -.4369 BSP 18110
 BDE .8973 BRA 3.6896 BC3 3.3751 FSP -398

MID-COURSE EXECUTION ACCURACY

SGT 5567.9 SGR 456.4 SG3 118.4
 RRT .4810 RRF .4573 RTF .9365
 SGB 5586.6 R23 .0052 R13 .9365
 SG1 5572.3 S62 399.9 THA 2.27

ORBIT DETERMINATION ACCURACY

ST 1536.6 SR 356.7 SS 432.2
 CRT -.3786 CRS .4481 CST -.9963
 LSA 1601.9 MSA 329.7 SSA 16.1
 EL1 1542.8 EL2 328.8 ALF 174.74

LAUNCH DATE MAR 4 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 571.677

RL 148.35 LAL .00 LOL 163.25 VL 25.862 GAL 8.66 AZL 91.12 HCA 291.03 SMA 118.45 ECC .29142 INC 1.1177 VI 30.035
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.688 GAP 16.13 AZP 90.40 TAL 157.56 TAP 88.59 RCA 83.93 APO 152.97 V2 35.213
 RC 201.391 GL -5.04 GP -12.19 ZAL 52.44 ZAP 167.81 ETS 272.23 ZAE 132.24 ETE 191.08 ZAC 171.30 ETC 17.81 CLP 179.77

PLANETOCENTRIC CONIC

C3 32.191 VHL 5.674 CLA 16.82 RAL 111.87 RAD 6568.3 VEL 12.392 PTH 2.24 VHP 10.575 OPA 12.23 RAP 94.77 ECC 1.5298
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 51 2883.79 -28.32 87.95 348.28 89.74 6 33 55 2283.8 -28.05 79.29
 90.00 22 16 11 4423.31 7.18 184.50 339.53 62.54 23 29 55 3823.3 3.45 177.81
 100.00 7 16 46 2590.59 -29.88 66.37 348.27 90.93 7 59 57 1990.6 -29.43 57.60
 100.00 23 27 57 4191.73 8.56 166.74 338.78 61.25 24 37 49 3591.7 4.66 160.12
 110.00 8 46 9 2310.94 -33.96 44.92 348.05 94.14 9 24 40 1710.9 -33.02 35.81
 110.00 0 19 0 4044.15 12.08 153.44 336.68 57.78 1 26 24 3444.1 7.74 147.03

DIFFERENTIAL CORRECTIONS

TOE -1.0325 TRA 4.0811 TC3-2.9711 BAU 1.2792
 RDE .3331 RRA .2607 RC3 -.0845 FAU .01315
 FDE -.3309 FRA 1.1664 FC3 -.3535 BSP 18178
 BDE 1.0849 BRA 4.0894 BC3 2.9723 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 5566.9 SGR 444.9 SG3 115.5
 RRT .4669 RRF .4446 RTF .9405
 SGB 5584.7 R23 .0037 R13 .9405
 SG1 5570.8 S62 393.2 THA 2.15

ORBIT DETERMINATION ACCURACY

ST 1663.0 SR 346.4 SS 455.1
 CRT -.4234 CRS .4749 CST -.9977
 LSA 1730.5 MSA 313.1 SSA 15.1
 EL1 1669.7 EL2 312.5 ALF 174.78

LAUNCH DATE MAR 4 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 25.819 GAL 9.62 AZL 91.34 HCA 294.27 SMA 118.22 ECC .30181 INC 1.3427 V1 30.035
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.665 GAP 16.82 AZP 90.55 TAL 155.99 TAP 90.26 RCA 82.54 APO 153.89 V2 35.221
 RC 203.056 GL -5.67 GP -11.97 ZAL 49.98 ZAP 167.99 ETS 268.18 ZAE 132.25 ETE 190.87 ZAC 168.96 ETC 16.27 CLP 178.95

PLANETOCENTRIC CONIC

C3 36.427 VHL 6.035 OLA 15.81 RAL 114.35 RAD 6568.4 VEL 12.562 PTH 2.28 VHP 10.979 OPA 12.48 RAP 97.18 ECC 1.5995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 5 29 2877.51 -28.32 87.49 352.71 89.97 6 53 27 2277.5 -28.02 78.84
 90.00 22 16 23 4491.97 9.32 188.42 343.78 63.14 23 31 15 3892.0 5.64 181.67
 100.00 7 35 34 2587.00 -29.87 66.10 352.70 91.07 8 18 41 1987.0 -29.41 57.33
 100.00 23 28 59 4257.72 10.70 170.47 343.05 61.92 24 39 56 3657.7 6.86 163.78
 110.00 9 3 14 2312.71 -33.97 45.06 352.48 94.06 9 41 47 1712.7 -33.04 35.94
 110.00 0 21 44 4104.77 14.26 156.78 340.96 58.60 1 30 9 3504.8 10.00 150.27

DIFFERENTIAL CORRECTIONS

TDE-1.2369 TRA 4.5069 TC3-2.5917 BAU 1.2626 SGT 5562.1 SGR 432.3 SG3 112.7 ST 1779.6 SR 336.1 SS 477.1
 RDE .3435 RRA .2746 RC3 -.0698 FAU .01187 RRT .4515 RRF .4310 RTF .9449 CRT -.4585 CRS .4969 CST -.9986
 FDE -.3667 FRA 1.2261 FC3 -.2822 BSP 18204 SGB 5578.9 R23 .0026 R13 .9449 LSA 1849.0 MSA 297.8 SSA 14.2
 BDE 1.2837 BRA 4.5152 BC3 2.5926 FSP -381 SG1 5565.6 SG2 385.5 THA 2.02 EL1 1786.4 EL2 297.5 ALF 174.91

LAUNCH DATE MAR 4 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 25.777 GAL 10.66 AZL 91.58 HCA 297.50 SMA 117.99 ECC .31327 INC 1.5796 V1 30.035
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.643 GAP 17.56 AZP 90.73 TAL 154.48 TAP 91.98 RCA 81.03 APO 154.95 V2 35.228
 RC 204.697 GL -6.23 GP -11.76 ZAL 47.70 ZAP 168.09 ETS 263.93 ZAE 132.24 ETE 190.67 ZAC 166.63 ETC 15.27 CLP 178.10

PLANETOCENTRIC CONIC

C3 41.436 VHL 6.437 OLA 14.86 RAL 116.65 RAD 6568.6 VEL 12.759 PTH 2.32 VHP 11.423 OPA 12.68 RAP 99.58 ECC 1.6819
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 23 26 2875.85 -28.32 87.37 357.09 90.03 7 11 22 2275.8 -28.01 78.72
 90.00 22 16 44 4558.73 11.35 192.27 348.00 63.88 23 32 43 3958.7 7.74 185.45
 100.00 7 52 48 2587.65 -29.88 66.15 357.07 91.05 8 35 56 1987.7 -29.41 57.38
 100.00 23 30 3 4322.16 12.74 174.17 347.28 62.73 24 42 6 3722.2 8.98 167.39
 110.00 9 18 57 2318.08 -34.00 45.48 356.86 93.81 9 57 35 1718.1 -33.09 36.35
 110.00 0 24 19 4164.49 16.35 160.15 345.23 59.55 1 33 44 3564.5 12.19 153.52

DIFFERENTIAL CORRECTIONS

TDE-1.4453 TRA 4.9627 TC3-2.2344 BAU 1.2381 SGT 5551.1 SGR 418.6 SG3 110.0 ST 1882.0 SR 326.0 SS 497.9
 RDE .3553 RRA .2873 RC3 -.0563 FAU .01055 RRT .4349 RRF .4169 RTF .9491 CRT -.4853 CRS .5139 CST -.9991
 FDE -.4009 FRA 1.2906 FC3 -.2205 BSP 18148 SGB 5566.8 R23 .0024 R13 .9492 LSA 1953.3 MSA 284.2 SSA 13.4
 BDE 1.4883 BRA 4.9710 BC3 2.2351 FSP -369 SG1 5554.1 SG2 376.8 THA 1.89 EL1 1888.8 EL2 284.1 ALF 175.08

LAUNCH DATE MAR 4 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 25.736 GAL 11.77 AZL 91.83 HCA 300.74 SMA 117.77 ECC .32595 INC 1.8309 V1 30.035
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.620 GAP 18.38 AZP 90.94 TAL 153.02 TAP 93.76 RCA 79.38 APO 156.15 V2 35.235
 RC 206.313 GL -6.72 GP -11.57 ZAL 45.59 ZAP 168.10 ETS 259.53 ZAE 132.20 ETE 190.47 ZAC 164.32 ETC 14.57 CLP 177.22

PLANETOCENTRIC CONIC

C3 47.371 VHL 6.883 OLA 13.97 RAL 118.76 RAD 6568.8 VEL 12.990 PTH 2.37 VHP 11.914 OPA 12.82 RAP 101.96 ECC 1.7796
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 39 48 2878.35 -28.32 87.55 1.38 89.94 7 27 46 2278.3 -28.02 78.90
 90.00 22 17 13 4623.56 13.26 196.07 352.19 64.75 23 34 16 4023.6 9.75 189.15
 100.00 8 8 32 2592.17 -29.88 66.49 1.37 90.87 8 51 44 1992.2 -29.44 57.71
 100.00 23 31 9 4384.97 14.67 177.83 351.49 63.66 24 44 14 3785.0 11.01 170.95
 110.00 9 33 21 2326.76 -34.03 46.15 1.18 93.41 10 12 8 1726.8 -33.19 37.01
 110.00 0 26 45 4223.14 18.34 163.53 349.46 60.64 1 37 8 3623.1 14.29 156.76

DIFFERENTIAL CORRECTIONS

TDE-1.6701 TRA 5.4440 TC3-1.9104 BAU 1.2102 SGT 5537.0 SGR 403.6 SG3 107.3 ST 1975.4 SR 315.8 SS 519.1
 RDE .3681 RRA .2978 RC3 -.0444 FAU .00931 RRT .4152 RRF .3997 RTF .9537 CRT -.5105 CRS .5313 CST -.9994
 FDE -.4368 FRA 1.3575 FC3 -.1701 BSP 18192 SGB 5551.7 R23 .0021 R13 .9537 LSA 2048.9 MSA 270.8 SSA 12.7
 BDE 1.7102 BRA 5.4521 BC3 1.9109 FSP -361 SG1 5539.5 SG2 367.0 THA 1.74 EL1 1982.1 EL2 270.7 ALF 175.24

LAUNCH DATE MAR 4 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

RL 148.35 LAL .00 LOL 163.25 VL 25.696 GAL 12.98 AZL 92.10 HCA 303.97 SMA 117.55 ECC .34002 INC 2.0998 V1 30.035
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.597 GAP 19.29 AZP 91.17 TAL 151.63 TAP 95.60 RCA 77.58 APO 157.52 V2 35.240
 RC 207.904 GL -7.14 GP -11.40 ZAL 43.66 ZAP 168.02 ETS 255.00 ZAE 132.12 ETE 190.27 ZAC 162.04 ETC 14.06 CLP 176.31

PLANETOCENTRIC CONIC

C3 54.423 VHL 7.377 OLA 13.15 RAL 120.69 RAD 6569.0 VEL 13.258 PTH 2.42 VHP 12.458 OPA 12.91 RAP 104.31 ECC 1.8957
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 39 2884.59 -28.32 88.01 5.59 89.71 7 42 44 2284.6 -28.06 79.35
 90.00 22 17 45 4686.38 15.05 199.82 356.33 65.73 23 35 52 4086.4 11.65 192.79
 100.00 8 22 50 2600.18 -29.89 67.08 5.58 90.56 9 6 11 2000.2 -29.49 58.30
 100.00 23 32 15 4446.02 16.48 181.46 355.65 64.70 24 46 21 3846.0 12.94 174.46
 110.00 9 46 29 2338.45 -34.08 47.06 5.44 92.88 10 25 28 1738.4 -33.30 37.91
 110.00 0 29 2 4280.52 20.22 166.92 353.66 61.83 1 40 22 3680.5 16.30 159.99

DIFFERENTIAL CORRECTIONS

TDE-1.9064 TRA 5.9592 TC3-1.6136 BAU 1.1743 SGT 5518.2 SGR 387.4 SG3 104.8 ST 2056.8 SR 305.7 SS 540.4
 RDE .3822 RRA .3057 RC3 -.0341 FAU .00805 RRT .3925 RRF .3798 RTF .9583 CRT -.5329 CRS .5476 CST -.9996
 FDE -.4731 FRA 1.4295 FC3 -.1280 BSP 18216 SGB 5531.8 R23 .0023 R13 .9583 LSA 2132.9 MSA 257.9 SSA 12.0
 BDE 1.9444 BRA 5.9670 BC3 1.6139 FSP -354 SG1 5520.3 SG2 356.2 THA 1.59 EL1 2063.4 EL2 257.9 ALF 175.40

LAUNCH DATE MAR 4 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 594.154

RL 148.35 LAL .00 LOL 163.25 VL 25.657 GAL 14.30 AZL 92.39 HCA 307.21 SMA 117.35 ECC .35567 INC 2.3901 V1 30.035
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.575 GAP 20.30 AZP 91.45 TAL 150.33 TAP 97.54 RCA 75.61 APO 159.08 V2 35.246
 RC 209.470 GL -7.52 GP -11.24 ZAL 41.90 ZAP 167.85 ETS 250.40 ZAE 131.99 ETE 190.07 ZAC 159.80 ETC 13.68 CLP 175.36

PLANETOCENTRIC CONIC

C3 62.836 VHL 7.927 DLA 12.41 RAL 122.45 RAD 6569.2 VEL 13.572 PTH 2.48 VHP 13.064 OPA 12.94 RAP 106.63 ECC 2.0341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 5 2894.17 -28.31 88.71 9.69 89.36 7 56 19 2294.2 -28.10 80.05
 90.00 22 18 20 4747.06 16.71 203.49 .41 66.81 23 37 28 4147.1 13.43 196.35
 100.00 8 35 48 2611.30 -29.89 67.91 9.70 90.12 9 19 19 2011.3 -29.56 59.12
 100.00 23 33 19 4505.16 18.16 185.04 359.74 65.84 24 48 24 3905.2 14.75 177.92
 110.00 9 58 24 2352.82 -34.12 48.18 9.60 92.22 10 37 37 1752.8 -33.44 39.00
 110.00 0 31 8 4336.41 21.98 170.30 357.80 63.14 1 43 24 3736.4 18.20 163.21

DIFFERENTIAL CORRECTIONS

TDE-2.1556 TRA 6.5132 TC3-1.3436 BAU 1.1289
 RDE .3979 RRA .3107 RC3 -.0251 FAU .00675
 FDE -.5102 FRA 1.5074 FC3 -.0930 BSP 18216
 BDE 2.1920 BRA 6.5206 BC3 1.3438 FSP -346

MID-COURSE EXECUTION ACCURACY

SGT 5495.4 SGR 370.4 SG3 102.3
 RRT .3660 RRF .3564 RTF .9629
 SGB 5507.9 R23 .0027 R13 .9629
 SG1 5497.1 SG2 344.6 THA 1.42

ORBIT DETERMINATION ACCURACY

ST 2126.7 SR 295.8 SS 562.1
 CRT -.5537 CRS .5633 CST -.9997
 LSA 2205.9 MSA 245.6 SSA 11.4
 EL1 2133.1 EL2 245.5 ALF 175.54

LAUNCH DATE MAR 4 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 597.862

RL 148.35 LAL .00 LOL 163.25 VL 25.620 GAL 15.73 AZL 92.71 HCA 310.44 SMA 117.15 ECC .37315 INC 2.7066 V1 30.035
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.553 GAP 21.42 AZP 91.76 TAL 149.12 TAP 99.57 RCA 73.43 APO 160.86 V2 35.250
 RC 211.012 GL -7.84 GP -11.09 ZAL 40.31 ZAP 167.57 ETS 245.77 ZAE 131.81 ETE 189.86 ZAC 157.60 ETC 13.38 CLP 174.36

PLANETOCENTRIC CONIC

C3 72.922 VHL 8.539 DLA 11.73 RAL 124.03 RAD 6569.4 VEL 13.938 PTH 2.54 VHP 13.742 OPA 12.93 RAP 108.90 ECC 2.2001
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 20 8 2906.70 -28.30 89.62 13.68 88.90 8 8 35 2306.7 -28.15 80.96
 90.00 22 18 56 4805.40 18.24 207.09 4.40 67.96 23 39 2 4205.4 15.09 199.83
 100.00 8 47 25 2625.18 -29.89 68.94 13.71 89.58 9 31 11 2025.2 -29.63 60.15
 100.00 23 34 20 4562.15 19.71 188.57 3.76 67.06 24 50 22 3962.2 16.44 181.30
 110.00 10 9 7 2369.55 -34.16 49.49 13.66 91.44 10 48 37 1769.5 -33.58 40.29
 110.00 0 33 4 4390.55 23.61 173.66 1.88 64.53 1 46 14 3790.5 19.98 166.40

DIFFERENTIAL CORRECTIONS

TDE-2.4193 TRA 7.1106 TC3-1.0995 BAU 1.0720
 RDE .4153 RRA .3118 RC3 -.0176 FAU .00538
 FDE -.5486 FRA 1.5924 FC3 -.0639 BSP 18197
 BDE 2.4547 BRA 7.1175 BC3 1.0996 FSP -338

MID-COURSE EXECUTION ACCURACY

SGT 5468.4 SGR 352.4 SG3 99.9
 RRT .3347 RRF .3282 RTF .9674
 SGB 5479.7 R23 .0034 R13 .9674
 SG1 5469.7 SG2 332.0 THA 1.24

ORBIT DETERMINATION ACCURACY

ST 2185.1 SR 286.0 SS 584.9
 CRT -.5739 CRS .5793 CST -.9998
 LSA 2268.0 MSA 233.5 SSA 10.7
 EL1 2191.4 EL2 233.5 ALF 175.66

LAUNCH DATE MAR 4 1969

FLIGHT TIME 210.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 601.157

RL 148.35 LAL .00 LOL 163.25 VL 25.584 GAL 17.32 AZL 93.06 HCA 313.68 SMA 116.96 ECC .39273 INC 3.0551 V1 30.035
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.532 GAP 22.68 AZP 92.11 TAL 148.04 TAP 101.72 RCA 71.03 APO 162.89 V2 35.254
 RC 212.528 GL -8.11 GP -10.95 ZAL 38.89 ZAP 167.19 ETS 241.16 ZAE 131.57 ETE 189.65 ZAC 155.46 ETC 13.15 CLP 173.31

PLANETOCENTRIC CONIC

C3 85.085 VHL 9.224 DLA 11.12 RAL 125.44 RAD 6569.7 VEL 14.368 PTH 2.61 VHP 14.504 OPA 12.88 RAP 111.11 ECC 2.4003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 30 50 2921.81 -28.27 90.73 17.53 88.35 8 19 32 2321.8 -28.20 82.06
 90.00 22 19 31 4861.18 19.63 210.60 8.28 69.17 23 40 32 4261.2 16.62 203.21
 100.00 8 57 45 2641.46 -29.88 70.15 17.58 88.94 9 41 47 2041.5 -29.70 61.35
 100.00 23 35 16 4616.76 21.13 192.01 7.66 68.35 24 52 13 4016.8 18.00 184.61
 110.00 10 18 39 2388.33 -34.18 50.95 17.60 90.58 10 58 27 1788.3 -33.72 41.74
 110.00 0 34 48 4442.66 25.09 176.98 5.85 65.99 1 48 51 3842.7 21.63 169.54

DIFFERENTIAL CORRECTIONS

TDE-2.6966 TRA 7.7603 TC3 -.8785 BAU .9994
 RDE .4349 RRA .3082 RC3 -.0114 FAU .00388
 FDE -.5881 FRA 1.6864 FC3 -.0395 BSP 18085
 BDE 2.7314 BRA 7.7664 BC3 .8786 FSP -328

MID-COURSE EXECUTION ACCURACY

SGT 5437.4 SGR 333.9 SG3 97.7
 RRT .2975 RRF .2944 RTF .9718
 SGB 5447.6 R23 .0045 R13 .9718
 SG1 5438.3 SG2 318.7 THA 1.05

ORBIT DETERMINATION ACCURACY

ST 2231.6 SR 276.4 SS 608.8
 CRT -.5737 CRS .5933 CST -.9998
 LSA 2319.0 MSA 221.9 SSA 10.1
 EL1 2237.6 EL2 221.8 ALF 175.75

LAUNCH DATE MAR 4 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 603.935

RL 148.35 LAL .00 LOL 163.25 VL 25.550 GAL 19.07 AZL 93.44 HCA 316.92 SMA 116.78 ECC .41474 INC 3.4436 V1 30.035
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.510 GAP 24.10 AZP 92.52 TAL 147.09 TAP 104.01 RCA 68.35 APO 165.21 V2 35.256
 RC 214.018 GL -8.35 GP -10.82 ZAL 37.64 ZAP 166.68 ETS 236.59 ZAE 131.26 ETE 189.42 ZAC 153.39 ETC 12.97 CLP 172.18

PLANETOCENTRIC CONIC

C3 99.851 VHL 9.993 DLA 10.58 RAL 126.68 RAD 6569.9 VEL 14.873 PTH 2.68 VHP 15.367 OPA 12.80 RAP 113.24 ECC 2.6433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 40 10 2939.18 -28.23 92.00 21.22 87.71 8 29 9 2339.2 -28.25 83.33
 90.00 22 20 3 4914.07 20.87 213.98 12.02 70.42 23 41 57 4314.1 18.02 206.47
 100.00 9 6 47 2659.83 -29.84 71.52 21.28 88.22 9 51 7 2059.8 -29.77 62.71
 100.00 23 36 7 4668.65 22.39 195.34 11.43 69.66 24 53 56 4068.7 19.42 187.81
 110.00 10 26 59 2408.85 -34.18 52.56 21.38 89.63 11 7 8 1808.8 -33.86 43.33
 110.00 0 36 20 4492.40 26.43 180.23 9.69 67.49 1 51 13 3892.4 23.14 172.61

DIFFERENTIAL CORRECTIONS

TDE-2.9972 TRA 8.4613 TC3 -.6830 BAU .9118
 RDE .4568 RRA .2987 RC3 -.0066 FAU .00228
 FDE -.6311 FRA 1.7891 FC3 -.0198 BSP 18066
 BDE 3.0318 BRA 8.4666 BC3 .6831 FSP -322

MID-COURSE EXECUTION ACCURACY

SGT 5401.5 SGR 314.8 SG3 95.5
 RRT .2515 RRF .2516 RTF .9760
 SGB 5410.7 R23 .0055 R13 .9760
 SG1 5402.1 SG2 304.7 THA .84

ORBIT DETERMINATION ACCURACY

ST 2268.8 SR 267.1 SS 635.3
 CRT -.6151 CRS .6136 CST -.9999
 LSA 2361.8 MSA 210.1 SSA 9.5
 EL1 2274.8 EL2 210.0 ALF 175.82

LAUNCH DATE MAR 4 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 606.060

RL 148.35 LAL .00 LOL 163.25 VL 25.518 GAL 21.02 AZL 93.88 HCA 320.15 SMA 116.61 ECC .43959 INC 3.8820 V1 30.035
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.490 GAP 25.71 AZP 92.98 TAL 146.33 TAP 106.48 RCA 65.35 APO 167.87 V2 35.259
 RC 215.482 GL -8.54 GP -10.69 ZAL 36.58 ZAP 166.03 ETS 232.11 ZAE 130.85 ETE 189.18 ZAC 151.41 ETC 12.84 CLP 170.97

PLANETOCENTRIC CONIC

C3 117.918 VHL 10.859 DLA 10.12 RAL 127.74 RAD 6570.2 VEL 15.468 PTH 2.76 VHP 16.347 DPA 12.69 RAP 115.29 ECC 2.9406
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 48 8 2958.52 -28.17 93.41 24.70 87.01 8 37 26 2358.5 -28.29 84.75
 90.00 22 20 31 4963.73 21.97 217.21 15.57 71.68 23 43 15 4363.7 19.27 209.58
 100.00 9 14 29 2680.02 -29.79 73.02 24.79 87.44 9 59 9 2080.0 -29.83 64.21
 100.00 23 36 51 4717.47 23.51 198.54 15.01 70.99 24 55 28 4117.5 20.70 190.87
 110.00 10 34 6 2430.85 -34.16 54.27 24.97 88.61 11 14 37 1830.8 -33.97 45.03
 110.00 0 37 39 4539.40 27.62 183.37 13.35 69.00 1 53 18 3939.4 24.51 175.58

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -3.3187 TRA 9.2269 TC3 -.5087 BAU .8020 SGT 5361.3 SGR 295.7 SG3 93.4 ST 2295.3 SR 258.1 SS 664.5
 RDE .4816 RRA .2819 RC3 -.0030 FAU .00046 RRT .1951 RRF .1983 RTF .9799 CRT -.6375 CRS .6334 CST -.9999
 FDE -.6772 FRA 1.9037 FC3 -.0034 BSP 18012 SGB 5369.4 R23 .0067 R13 .9799 LSA 2395.2 MSA 198.5 SSA 9.0
 BDE 3.3535 BRA 9.2312 BC3 .5087 FSP -315 SG1 5361.6 SG2 290.0 THA .62 EL1 2301.2 EL2 198.4 ALF 175.87

LAUNCH DATE MAR 4 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

DISTANCE 607.354

RL 148.35 LAL .00 LOL 163.25 VL 25.488 GAL 23.22 AZL 94.38 HCA 323.38 SMA 116.46 ECC .46773 INC 4.3842 V1 30.035
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.471 GAP 27.56 AZP 93.52 TAL 145.77 TAP 109.16 RCA 61.99 APO 170.92 V2 35.260
 RC 216.920 GL -8.70 GP -10.57 ZAL 35.72 ZAP 165.24 ETS 227.74 ZAE 130.34 ETE 188.92 ZAC 149.52 ETC 12.75 CLP 169.64

PLANETOCENTRIC CONIC

C3 140.213 VHL 11.841 DLA 9.74 RAL 128.60 RAD 6570.5 VEL 16.172 PTH 2.84 VHP 17.469 DPA 12.56 RAP 117.23 ECC 3.3076
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 54 38 2979.60 -28.09 94.95 27.96 86.24 8 44 18 2379.6 -28.31 86.29
 90.00 22 20 53 5009.71 22.93 220.24 18.89 72.91 23 44 23 4409.7 20.37 212.50
 100.00 9 20 46 2701.78 -29.72 74.63 28.08 86.59 10 5 48 2101.8 -29.87 65.83
 100.00 23 37 26 4762.76 24.48 201.55 18.36 72.29 24 56 49 4162.8 21.83 193.76
 110.00 10 39 55 2454.09 -34.11 56.09 28.34 87.54 11 20 50 1854.1 -34.07 46.84
 110.00 0 38 42 4583.22 28.65 186.36 16.79 70.50 1 55 5 3983.2 25.72 178.40

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -3.6640 TRA10.0644 TC3 -.3546 BAU .6647 SGT 5316.3 SGR 277.0 SG3 91.4 ST 2311.1 SR 249.7 SS 697.2
 RDE .5101 RRA .2560 RC3 -.0006 FAU-.00168 RRT .1253 RRF .1313 RTF .9835 CRT -.6615 CRS .6552 CST -.9999
 FDE -.7272 FRA 2.0320 FC3 .0103 BSP 17941 SGB 5323.5 R23 .0078 R13 .9835 LSA 2419.6 MSA 187.0 SSA 8.4
 BDE 3.6993 BRA10.0677 BC3 .3546 FSP -308 SG1 5316.4 SG2 274.8 THA .37 EL1 2317.0 EL2 186.8 ALF 175.89

LAUNCH DATE MAR 4 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC

DISTANCE 607.579

RL 148.35 LAL .00 LOL 163.25 VL 25.461 GAL 25.70 AZL 94.97 HCA 326.62 SMA 116.32 ECC .49968 INC 4.9690 V1 30.035
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.452 GAP 29.69 AZP 94.15 TAL 145.48 TAP 112.09 RCA 58.19 APO 174.44 V2 35.261
 RC 218.330 GL -8.82 GP -10.45 ZAL 35.07 ZAP 164.28 ETS 223.49 ZAE 129.69 ETE 188.63 ZAC 147.76 ETC 12.69 CLP 168.19

PLANETOCENTRIC CONIC

C3 167.987 VHL 12.961 DLA 9.45 RAL 129.25 RAD 6570.8 VEL 17.009 PTH 2.92 VHP 18.761 DPA 12.43 RAP 119.04 ECC 3.7646
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 59 35 3002.26 -27.98 96.59 30.94 85.42 8 49 37 2402.3 -28.32 87.95
 90.00 22 21 8 5051.50 23.73 223.04 21.92 74.09 23 45 19 4451.5 21.32 215.19
 100.00 9 25 33 2724.96 -29.61 76.34 31.09 85.69 10 10 58 2125.0 -29.89 67.55
 100.00 23 37 50 4804.03 25.31 204.34 21.42 73.54 24 57 54 4204.0 22.81 196.43
 110.00 10 44 21 2478.39 -34.02 57.98 31.44 86.42 11 25 39 1878.4 -34.14 48.74
 110.00 0 39 28 4623.36 29.53 189.15 19.94 71.94 1 56 31 4023.4 26.78 181.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -4.0320 TRA10.9866 TC3 -.2183 BAU .4902 SGT 5266.7 SGR 259.4 SG3 89.6 ST 2315.0 SR 241.9 SS 733.9
 RDE .5432 RRA .2187 RC3 .0008 FAU-.00428 RRT .0391 RRF .0477 RTF .9868 CRT -.6867 CRS .6786 CST -.9999
 FDE -.7812 FRA 2.1775 FC3 .0220 BSP 17775 SGB 5273.1 R23 .0090 R13 .9868 LSA 2434.2 MSA 175.8 SSA 7.8
 BDE 4.0685 BRA10.9887 BC3 .2183 FSP -301 SG1 5266.7 SG2 259.2 THA .11 EL1 2320.9 EL2 175.4 ALF 175.87

LAUNCH DATE MAR 4 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 10 1969

HELIOCENTRIC CONIC

DISTANCE 606.419

RL 148.35 LAL .00 LOL 163.25 VL 25.438 GAL 28.54 AZL 95.66 HCA 329.84 SMA 116.19 ECC .53604 INC 5.6633 V1 30.035
 RP 107.47 LAP 2.84 LOP 133.21 VP 36.436 GAP 32.16 AZP 94.90 TAL 145.51 TAP 115.35 RCA 53.91 APO 178.48 V2 35.260
 RC 219.714 GL -8.91 GP -10.32 ZAL 34.65 ZAP 163.12 ETS 219.38 ZAE 128.88 ETE 188.31 ZAC 146.16 ETC 12.67 CLP 166.57

PLANETOCENTRIC CONIC

C3 202.931 VHL 14.245 DLA 9.25 RAL 129.66 RAD 6571.1 VEL 18.007 PTH 3.01 VHP 20.258 DPA 12.30 RAP 120.68 ECC 4.3397
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 2 48 3026.43 -27.83 98.35 33.60 84.56 8 53 14 2426.4 -28.29 89.71
 90.00 22 21 12 5088.50 24.40 225.54 24.60 75.17 23 46 0 4488.5 22.13 217.61
 100.00 9 28 40 2749.48 -29.47 78.15 33.78 84.75 10 14 30 2149.5 -29.89 69.37
 100.00 23 38 1 4840.68 25.99 206.85 24.13 74.69 24 58 42 4240.7 23.64 198.84
 110.00 10 47 13 2503.67 -33.89 59.94 34.23 85.27 11 28 57 1903.7 -34.18 50.71
 110.00 0 39 53 4659.26 30.26 191.69 22.74 73.28 1 57 32 4059.3 27.67 183.45

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -4.4314 TRA11.9944 TC3 -.1004 BAU .2725 SGT 5210.5 SGR 243.8 SG3 87.8 ST 2308.0 SR 235.0 SS 776.0
 RDE .5821 RRA .1671 RC3 .0011 FAU-.00744 RRT -.0671 RRF -.0565 RTF .9896 CRT -.7141 CRS .7046 CST -.9999
 FDE -.8418 FRA 2.3413 FC3 .0317 BSP 17677 SGB 5216.2 R23 -.0100 R13 -.9896 LSA 2440.7 MSA 164.7 SSA 7.3
 BDE 4.4695 BRA11.9955 BC3 .1004 FSP -295 SG1 5210.5 SG2 243.3 THA 179.82 EL1 2314.1 EL2 164.1 ALF 175.82

LAUNCH DATE MAR 5 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 14 1969

HELIOCENTRIC CONIC

DISTANCE 200.238

RL 148.38 LAL .00 LOL 164.25 VL 28.684 GAL -12.56 AZL 89.93 HCA 90.91 SMA 137.38 ECC .23113 INC .0730 V1 30.028
 RP 108.62 LAP .07 LOP 255.16 VP 38.440 GAP -5.75 AZP 90.00 TAL 237.67 TAP 328.58 RCA 105.63 APO 169.14 V2 34.889
 RC 65.076 GL .30 GP 23.46 ZAL 163.11 ZAP 44.64 ETS 336.71 ZAE 150.63 ETE 43.30 ZAC 118.76 ETC 149.84 CLP -39.14

PLANETOCENTRIC CONIC

C3 48.711 VHL 6.979 DLA .72 RAL .92 RAD 6568.8 VEL 13.041 PTH 2.38 VHP 5.68E DPA 33.01 RAP 24.37 ECC 1.8017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 30 9 2458.26 -24.64 57.53 237.93 104.42 1 11 8 1858.3 -22.42 49.56
 90.00 12 38 52 5057.60 23.85 223.45 237.38 74.26 14 3 10 4457.6 21.46 215.59
 100.00 1 51 50 2194.80 -25.96 37.77 237.54 105.37 2 28 25 1594.8 -23.60 29.76
 100.00 13 59 53 4796.30 25.16 203.81 236.96 73.30 15 19 49 4196.3 22.63 195.93
 110.00 3 0 51 1978.78 -29.52 20.16 236.33 108.08 3 33 50 1378.8 -26.76 12.06
 110.00 15 7 21 4585.08 28.69 186.49 235.67 70.57 16 23 46 3985.1 25.77 178.53

DIFFERENTIAL CORRECTIONS

TDE -.1754 TRA -.4022 TC3 .1976 BAU .2068
 RDE -.3193 RRA .3762 RC3 .2485 FAU .07368
 FDE -.7624 FRA -.9149 FC3-1.3095 BSP 1267
 BDE .3643 BRA .5508 BC3 .3175 FSP -497

MID-COURSE EXECUTION ACCURACY

SGT 453.8 SGR 533.4 SG3 179.1
 RRT .1299 RRF -.6350 RTF -.1766
 SGB 700.3 R23 -.0827 R13 -.6367
 SG1 543.6 SG2 441.4 THA 70.67

ORBIT DETERMINATION ACCURACY

ST 175.0 SR 278.2 SS 327.9
 CRT .5885 CRS -.7680 CST -.9589
 LSA 433.3 MSA 165.0 SSA 23.6
 EL1 301.7 EL2 130.5 ALF 64.62

LAUNCH DATE MAR 5 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 206.891

RL 148.38 LAL .00 LOL 164.25 VL 28.734 GAL -12.44 AZL 90.11 HCA 94.08 SMA 137.79 ECC .22809 INC .1147 V1 30.028
 RP 108.65 LAP -.11 LOP 258.33 VP 38.467 GAP -5.02 AZP 89.99 TAL 238.34 TAP 332.43 RCA 106.36 APO 169.22 V2 34.878
 RC 67.198 GL -.47 GP 24.88 ZAL 163.48 ZAP 48.86 ETS 338.85 ZAE 150.85 ETE 48.91 ZAC 117.07 ETC 149.99 CLP -43.52

PLANETOCENTRIC CONIC

C3 47.791 VHL 6.913 DLA -.12 RAL .89 RAD 6568.8 VEL 13.006 PTH 2.37 VHP 5.403 DPA 33.81 RAP 22.44 ECC 1.7865
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 36 16 2427.30 -24.10 55.42 237.22 105.34 1 16 44 1827.3 -21.76 47.53
 90.00 12 32 28 5079.02 24.24 224.90 237.32 74.89 13 57 7 4479.0 21.93 216.99
 100.00 1 57 34 2165.11 -25.41 35.73 236.81 106.31 2 33 39 1565.1 -22.93 27.81
 100.00 13 53 52 4816.45 25.54 205.19 236.91 73.92 15 14 9 4216.5 23.09 197.24
 110.00 3 5 40 1951.90 -28.93 18.29 235.55 109.05 3 38 12 1351.9 -26.06 10.28
 110.00 15 2 15 4602.42 29.08 187.69 235.66 71.18 16 18 57 4002.4 26.23 179.66

DIFFERENTIAL CORRECTIONS

TDE -.1823 TRA -.4269 TC3 .1737 BAU .2123
 RDE -.2935 RRA .3937 RC3 .2832 FAU .08010
 FDE -.8742 FRA -.9982 FC3-1.4510 BSP 1335
 BDE .3455 BRA .5807 BC3 .3322 FSP -556

MID-COURSE EXECUTION ACCURACY

SGT 453.5 SGR 564.7 SG3 197.7
 RRT .0599 RRF -.6805 RTF -.0767
 SGB 724.3 R23 -.0360 R13 -.6805
 SG1 566.6 SG2 451.2 THA 82.42

ORBIT DETERMINATION ACCURACY

ST 184.8 SR 262.5 SS 358.6
 CRT .5454 CRS -.7501 CST -.9537
 LSA 450.0 MSA 169.2 SSA 23.6
 EL1 288.4 EL2 .141.0 ALF 61.65

LAUNCH DATE MAR 5 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 213.504

RL 148.38 LAL .00 LOL 164.25 VL 28.771 GAL -12.32 AZL 90.30 HCA 97.26 SMA 138.10 ECC .22540 INC .3045 V1 30.028
 RP 108.68 LAP -.30 LOP 261.50 VP 38.486 GAP -4.33 AZP 89.96 TAL 238.85 TAP 336.10 RCA 106.97 APO 169.22 V2 34.867
 RC 69.360 GL -1.25 GP 26.35 ZAL 163.71 ZAP 53.25 ETS 341.01 ZAE 150.95 ETE 55.12 ZAC 115.20 ETC 150.30 CLP -48.11

PLANETOCENTRIC CONIC

C3 46.948 VHL 6.852 DLA -.95 RAL .95 RAD 6568.8 VEL 12.973 PTH 2.37 VHP 5.158 DPA 34.55 RAP 20.27 ECC 1.7726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 42 39 2397.19 -23.54 53.39 236.67 106.21 1 22 36 1797.2 -21.09 45.57
 90.00 12 26 35 5100.22 24.60 226.34 237.37 75.52 13 51 35 4500.2 22.37 218.38
 100.00 2 3 33 2136.23 -24.84 33.77 236.24 107.19 2 39 9 1536.2 -22.25 25.93
 100.00 13 48 22 4836.41 25.91 206.55 236.98 74.55 15 8 58 4236.4 23.54 198.56
 110.00 3 10 47 1925.79 -28.34 16.48 234.92 109.97 3 42 53 1325.8 -25.36 8.58
 110.00 14 57 37 4619.62 29.45 188.89 235.78 71.80 16 14 37 4019.6 26.68 180.80

DIFFERENTIAL CORRECTIONS

TDE -.1930 TRA -.4568 TC3 .1427 BAU .2202
 RDE -.2644 RRA .4112 RC3 .3205 FAU .08656
 FDE -.9935 FRA -1.0785 FC3-1.5961 BSP 1449
 BDE .3273 BRA .6146 BC3 .3508 FSP -622

MID-COURSE EXECUTION ACCURACY

SGT 458.5 SGR 600.1 SG3 216.7
 RRT -.0356 RRF -.7225 RTF .0443
 SGB 755.2 R23 .0173 R13 -.7225
 SG1 600.6 SG2 457.8 THA 93.73

ORBIT DETERMINATION ACCURACY

ST 198.0 SR 244.4 SS 390.5
 CRT .4946 CRS -.7236 CST -.9492
 LSA 470.3 MSA 172.2 SSA 23.6
 EL1 274.8 EL2 153.0 ALF 56.60

LAUNCH DATE MAR 5 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 220.077

RL 148.38 LAL .00 LOL 164.25 VL 28.798 GAL -12.20 AZL 90.50 HCA 100.43 SMA 138.32 ECC .22298 INC .4972 V1 30.028
 RP 108.72 LAP -.49 LOP 264.67 VP 38.497 GAP -3.67 AZP 89.91 TAL 239.20 TAP 339.62 RCA 107.47 APO 169.16 V2 34.858
 RC 71.560 GL -2.06 GP 27.84 ZAL 163.81 ZAP 57.77 ETS 343.23 ZAE 150.84 ETE 61.85 ZAC 113.18 ETC 150.77 CLP -52.91

PLANETOCENTRIC CONIC

C3 46.164 VHL 6.794 DLA -1.77 RAL 1.10 RAD 6568.8 VEL 12.943 PTH 2.36 VHP 4.949 DPA 35.22 RAP 17.87 ECC 1.7597
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 49 19 2367.68 -22.97 51.42 236.24 107.04 1 28 47 1767.7 -20.42 43.67
 90.00 12 21 8 5121.29 24.95 227.79 237.54 76.16 13 46 30 4521.3 22.81 219.77
 100.00 2 9 50 2107.94 -24.26 31.87 235.80 108.03 2 44 58 1507.9 -21.57 24.11
 100.00 13 43 18 4856.26 26.27 207.92 237.17 75.19 15 4 15 4256.3 23.98 199.87
 110.00 3 16 12 1900.22 -27.73 14.74 234.43 110.83 3 47 52 1300.2 -24.65 6.93
 110.00 14 53 26 4636.75 29.81 190.10 236.01 72.43 16 10 43 4036.7 27.12 181.94

DIFFERENTIAL CORRECTIONS

TDE -.2100 TRA -.4943 TC3 .1026 BAU .2306
 RDE -.2332 RRA .4270 RC3 .3592 FAU .09262
 FDE -1.1129 FRA -1.1464 FC3-1.7369 BSP 1581
 BDE .3138 BRA .6532 BC3 .3736 FSP -682

MID-COURSE EXECUTION ACCURACY

SGT 474.1 SGR 637.8 SG3 234.8
 RRT -.1567 RRF -.7592 RTF .1867
 SGB 794.6 R23 .0630 R13 -.7597
 SG1 646.8 SG2 461.7 THA 103.75

ORBIT DETERMINATION ACCURACY

ST 216.9 SR 224.9 SS 421.2
 CRT .4381 CRS -.6870 CST -.9467
 LSA 494.2 MSA 173.7 SSA 23.5
 EL1 265.0 EL2 165.4 ALF 47.35

LAUNCH DATE MAR 5 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 226.609

RL 148.38 LAL .00 LOL 164.25 VL 28.814 GAL -12.09 AZL 90.69 MCA 103.59 SMA 138.45 ECC .22080 INC .6934 V1 30.028
 RP 108.74 LAP -.67 LOP 267.84 VP 38.501 GAP -3.05 AZP 89.84 TAL 239.40 TAP 342.99 RCA 107.88 APO 169.03 V2 34.848
 RC 73.792 GL -2.90 GP 29.34 ZAL 163.78 ZAP 62.40 ETS 345.53 ZAE 150.47 ETE 68.96 ZAC 111.04 ETC 151.40 CLP -57.89

PLANETOCENTRIC CONIC

C3 45.428 VHL 6.740 DLA -2.58 RAL 1.35 RAD 6568.7 VEL 12.915 PTH 2.35 VHP 4.777 DPA 35.81 RAP 15.28 ECC 1.7476
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 56 19 2338.50 -22.37 49.49 235.94 107.83 1 35 17 1738.5 -19.72 41.81
 90.00 12 16 6 5142.39 25.29 229.24 237.82 76.82 13 41 48 4542.4 23.23 221.18
 100.00 2 16 27 2079.98 -23.65 30.02 235.48 108.83 2 51 7 1480.0 -20.87 22.33
 100.00 13 38 38 4876.15 26.61 209.30 237.46 75.84 14 59 55 4276.1 24.40 201.20
 110.00 3 21 56 1874.98 -27.11 13.04 234.07 111.67 3 53 11 1275.0 -23.92 5.33
 110.00 14 49 39 4653.92 30.15 191.31 236.34 73.08 16 7 12 4053.9 27.54 183.09

DIFFERENTIAL CORRECTIONS

TDE -.2323 TRA -.5372 TC3 .0547 BAU .2449
 RDE -.1989 RRA .4414 RC3 .3996 FAU .09827
 FDE -1.2343 FRA -1.2039 FC3 -1.8728 BSP 1768
 BDE .3058 BRA .6953 BC3 .4033 FSP -745

MID-COURSE EXECUTION ACCURACY

SGT 503.4 SGR 678.1 SG3 252.2
 RRT -.2889 RRF -.7916 RTF .3330
 SGB 844.5 R23 .0955 R13 -.7933
 SG1 706.6 SG2 462.4 THA 111.85

ORBIT DETERMINATION ACCURACY

ST 240.4 SR 203.9 SS 452.3
 CRT .3668 CRS -.6337 CST -.9456
 LSA 522.7 MSA 173.8 SSA 23.5
 EL1 263.5 EL2 173.1 ALF 32.84

LAUNCH DATE MAR 5 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 233.102

RL 148.38 LAL .00 LOL 164.25 VL 28.822 GAL -11.97 AZL 90.90 MCA 106.76 SMA 138.52 ECC .21879 INC .8950 V1 30.028
 RP 108.77 LAP -.86 LOP 271.01 VP 38.498 GAP -2.46 AZP 89.74 TAL 239.46 TAP 346.22 RCA 108.21 APO 168.82 V2 34.839
 RC 76.053 GL -3.78 GP 30.82 ZAL 163.63 ZAP 67.08 ETS 347.94 ZAE 149.78 ETE 76.23 ZAC 108.83 ETC 152.18 CLP -63.03

PLANETOCENTRIC CONIC

C3 44.728 VHL 6.688 DLA -3.39 RAL 1.68 RAD 6568.7 VEL 12.888 PTH 2.35 VHP 4.639 DPA 36.30 RAP 12.56 ECC 1.7361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 3 41 2309.40 -21.75 47.58 235.76 108.59 1 42 10 1709.4 -19.01 39.98
 90.00 12 11 23 5163.69 25.61 230.72 238.20 77.49 13 37 27 4563.7 23.63 222.61
 100.00 2 23 26 2052.11 -23.03 28.18 235.28 109.60 2 57 39 1452.1 -20.15 20.57
 100.00 13 34 19 4896.22 26.93 210.71 237.86 76.51 14 55 55 4296.2 24.81 202.55
 110.00 3 28 3 1849.83 -26.47 11.37 233.82 112.47 3 58 53 1249.8 -23.19 3.75
 110.00 14 46 11 4671.25 30.49 192.55 236.79 73.74 16 4 3 4071.3 27.96 184.27

DIFFERENTIAL CORRECTIONS

TDE -.2621 TRA -.5867 TC3 -.0025 BAU .2628
 RDE -.1633 RRA .4523 RC3 .4395 FAU .10298
 FDE -1.3483 FRA -1.2416 FC3 -1.9933 BSP 1985
 BDE .3088 BRA .7408 BC3 .4395 FSP -796

MID-COURSE EXECUTION ACCURACY

SGT 551.3 SGR 718.2 SG3 267.4
 RRT -.4193 RRF -.8185 RTF .4717
 SGB 905.4 R23 .1181 R13 -.8222
 SG1 779.0 SG2 461.4 THA 118.73

ORBIT DETERMINATION ACCURACY

ST 270.6 SR 182.9 SS 481.4
 CRT .2791 CRS -.5596 CST -.9465
 LSA 555.1 MSA 172.5 SSA 23.3
 EL1 278.5 EL2 170.6 ALF 17.38

LAUNCH DATE MAR 5 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 239.554

RL 148.38 LAL .00 LOL 164.25 VL 28.821 GAL -11.85 AZL 91.10 MCA 109.92 SMA 138.51 ECC .21694 INC 1.1033 V1 30.028
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.490 GAP -1.90 AZP 89.62 TAL 239.38 TAP 349.31 RCA 108.46 APO 168.56 V2 34.831
 RC 78.340 GL -4.69 GP 32.27 ZAL 163.34 ZAP 71.76 ETS 350.48 ZAE 148.76 ETE 83.44 ZAC 106.57 ETC 153.07 CLP -68.28

PLANETOCENTRIC CONIC

C3 44.059 VHL 6.638 DLA -4.21 RAL 2.10 RAD 6568.7 VEL 12.862 PTH 2.34 VHP 4.535 DPA 36.71 RAP 9.76 ECC 1.7251
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 11 29 2280.08 -21.10 45.67 235.69 109.33 1 49 29 1680.1 -18.27 38.14
 90.00 12 6 56 5185.43 25.92 232.23 238.69 78.19 13 33 21 4585.4 24.04 224.07
 100.00 2 30 52 2024.04 -22.38 26.35 235.19 110.35 3 4 36 1424.0 -19.40 18.82
 100.00 13 30 15 4916.70 27.25 212.15 238.37 77.21 14 52 12 4316.7 25.21 203.94
 110.00 3 34 35 1824.55 -25.80 9.71 233.69 113.24 4 4 59 1224.6 -22.43 2.18
 110.00 14 43 1 4688.95 30.82 193.82 237.34 74.43 16 1 10 4088.9 28.38 185.48

DIFFERENTIAL CORRECTIONS

TDE -.2984 TRA -.6404 TC3 -.0673 BAU .2851
 RDE -.1253 RRA .4602 RC3 .4793 FAU .10683
 FDE -1.4574 FRA -1.2626 FC3 -2.0992 BSP 2257
 BDE .3236 BRA .7886 BC3 .4840 FSP -847

MID-COURSE EXECUTION ACCURACY

SGT 617.7 SGR 758.4 SG3 280.5
 RRT -.5330 RRF -.8415 RTF .5876
 SGB 978.1 R23 .1332 R13 -.8470
 SG1 863.8 SG2 458.8 THA 124.40

ORBIT DETERMINATION ACCURACY

ST 306.6 SR 162.3 SS 510.4
 CRT .1597 CRS -.4508 CST -.9483
 LSA 592.8 MSA 169.9 SSA 23.2
 EL1 308.1 EL2 159.5 ALF 6.61

LAUNCH DATE MAR 5 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 245.968

RL 148.38 LAL .00 LOL 164.25 VL 28.812 GAL -11.73 AZL 91.32 MCA 113.09 SMA 138.44 ECC .21519 INC 1.3199 V1 30.028
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.477 GAP -1.37 AZP 89.48 TAL 239.18 TAP 352.27 RCA 108.65 APO 168.23 V2 34.824
 RC 80.651 GL -5.66 GP 33.67 ZAL 162.93 ZAP 76.40 ETS 353.13 ZAE 147.41 ETE 90.38 ZAC 104.32 ETC 154.06 CLP -73.59

PLANETOCENTRIC CONIC

C3 43.415 VHL 6.589 DLA -5.04 RAL 2.61 RAD 6568.6 VEL 12.837 PTH 2.34 VHP 4.463 DPA 37.04 RAP 6.95 ECC 1.7145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 19 48 2250.25 -20.42 43.75 235.73 110.06 1 57 18 1650.3 -17.50 36.29
 90.00 12 2 40 5207.85 26.23 233.80 239.29 78.92 13 29 28 4607.8 24.43 225.59
 100.00 2 38 46 1995.51 -21.69 24.51 235.21 111.09 3 12 2 1395.5 -18.63 17.05
 100.00 13 26 23 4937.82 27.56 213.64 238.99 77.94 14 48 41 4337.8 25.62 205.38
 110.00 3 41 34 1798.89 -25.10 8.05 233.67 114.01 4 11 33 1198.9 -21.64 .60
 110.00 14 40 5 4707.21 31.15 195.15 238.00 75.15 15 58 32 4107.2 28.79 186.73

DIFFERENTIAL CORRECTIONS

TDE -.3428 TRA -.6984 TC3 -.1400 BAU .3106
 RDE -.0872 RRA .4626 RC3 .5164 FAU .10929
 FDE -1.5510 FRA -1.2585 FC3 -2.1793 BSP 2555
 BDE .3537 BRA .8378 BC3 .5351 FSP -882

MID-COURSE EXECUTION ACCURACY

SGT 703.3 SGR 795.0 SG3 290.1
 RRT -.6246 RRF -.8601 RTF .6783
 SGB 1061.4 R23 .1447 R13 -.8669
 SG1 958.7 SG2 455.4 THA 129.44

ORBIT DETERMINATION ACCURACY

ST 349.8 SR 144.4 SS 536.4
 CRT .0065 CRS -.3016 CST -.9511
 LSA 634.6 MSA 166.2 SSA 23.0
 EL1 349.8 EL2 144.4 ALF .19

LAUNCH DATE MAR 5 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 252.343

RL 148.38 LAL .00 LOL 164.25 VL 28.797 GAL -11.61 AZL 91.55 MCA 116.25 SMA 138.31 ECC .21355 INC 1.5470 V1 30.028
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.459 GAP -.86 AZP 89.32 TAL 238.87 TAP 355.12 RCA 108.77 APO 167.85 V2 34.816
 RC 82.981 GL -6.68 GP 35.01 ZAL 162.39 ZAP 80.93 ETS 355.89 ZAE 145.77 ETE 96.88 ZAC 102.13 ETC 155.10 CLP -78.90

PLANETOCENTRIC CONIC

C3 42.798 VHL 6.542 DLA -5.90 RAL 3.20 RAD 6568.6 VEL 12.813 PTH 2.33 VHP 4.423 DPA 37.31 RAP 4.18 ECC 1.7043
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 28 42 2219.60 -19.69 41.80 235.87 110.77 2 5 42 1619.6 -16.69 34.41
 90.00 11 58 31 5231.29 26.52 235.46 240.00 79.70 13 25 43 4631.3 24.83 227.20
 100.00 2 47 15 1966.21 -20.96 22.64 235.35 111.81 3 20 1 1366.2 -17.82 15.26
 100.00 13 22 40 4959.91 27.86 215.21 239.71 78.71 14 45 19 4359.9 26.02 206.89
 110.00 3 49 5 1772.58 -24.36 6.36 233.76 114.76 4 18 38 1172.6 -20.81 359.01
 110.00 14 37 18 4726.30 31.47 196.54 238.78 75.91 15 56 4 4126.3 29.22 188.06

DIFFERENTIAL CORRECTIONS

TDE -.3945 TRA -.7584 TC3 -.2189 BAU .3394
 RDE -.0477 RRA .4608 RC3 .5514 FAU .11057
 FDE-1.6339 FRA-1.2362 FC3-2.2367 BSP 2897
 BDE .3974 BRA .8874 BC3 .5933 FSP -912

MID-COURSE EXECUTION ACCURACY

SGT 804.5 SGR 828.8 SG3 296.8
 RRT -.6945 RRF -.8758 RTF .7452
 SGB 1155.0 R23 .1535 R13 -.8830
 SG1 1063.3 SG2 451.2 THA 133.77

ORBIT DETERMINATION ACCURACY

ST 399.5 SR 130.5 SS 561.8
 CRT -.1942 CRS -.0947 CST -.9544
 LSA 682.3 MSA 161.7 SSA 22.8
 EL1 400.3 EL2 127.7 ALF 175.96

LAUNCH DATE MAR 5 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 258.682

RL 148.38 LAL .00 LOL 164.25 VL 28.775 GAL -11.49 AZL 91.79 MCA 119.41 SMA 138.13 ECC .21198 INC 1.7866 V1 30.028
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.437 GAP -.38 AZP 89.12 TAL 238.45 TAP 357.85 RCA 108.85 APO 167.41 V2 34.810
 RC 85.328 GL -7.78 GP 36.28 ZAL 161.71 ZAP 85.30 ETS 358.76 ZAE 143.89 ETE 102.83 ZAC 100.03 ETC 156.16 CLP -84.17

PLANETOCENTRIC CONIC

C3 42.208 VHL 6.497 DLA -6.80 RAL 3.89 RAD 6568.6 VEL 12.790 PTH 2.33 VHP 4.412 DPA 37.55 RAP 1.51 ECC 1.6946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 38 17 2187.76 -18.91 39.79 236.14 111.48 2 14 45 1587.8 -15.82 32.47
 90.00 11 54 24 5256.12 26.81 237.22 240.83 80.54 13 22 0 4656.1 25.23 228.91
 100.00 2 56 23 1935.81 -20.18 20.72 235.59 112.53 3 28 39 1335.8 -16.95 13.41
 100.00 13 18 59 4983.31 28.16 216.88 240.56 79.54 14 42 2 4383.3 26.43 208.51
 110.00 3 57 13 1745.35 -23.57 4.64 233.96 115.50 4 26 19 1145.4 -19.94 357.38
 110.00 14 34 38 4746.53 31.80 198.03 239.68 76.74 15 53 45 4146.5 29.65 189.48

DIFFERENTIAL CORRECTIONS

TDE -.4543 TRA -.8194 TC3 -.3031 BAU .3703
 RDE -.0088 RRA .4527 RC3 .5820 FAU .11035
 FDE-1.6982 FRA-1.1897 FC3-2.2634 BSP 3255
 BDE .4544 BRA .9362 BC3 .6562 FSP -924

MID-COURSE EXECUTION ACCURACY

SGT 919.4 SGR 856.5 SG3 299.4
 RRT -.7459 RRF -.8886 RTF .7933
 SGB 1256.6 R23 .1620 R13 -.8954
 SG1 1174.5 SG2 446.6 THA 137.71

ORBIT DETERMINATION ACCURACY

ST 456.4 SR 123.0 SS 584.4
 CRT -.4188 CRS .1521 CST -.9577
 LSA 734.8 MSA 156.6 SSA 22.5
 EL1 459.5 EL2 110.9 ALF 173.16

LAUNCH DATE MAR 5 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 264.985

RL 148.38 LAL .00 LOL 164.25 VL 28.748 GAL -11.35 AZL 92.04 MCA 122.56 SMA 137.91 ECC .21048 INC 2.0416 V1 30.028
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.412 GAP -.08 AZP 88.90 TAL 237.92 TAP .49 RCA 108.88 APO 166.93 V2 34.804
 RC 87.691 GL -8.95 GP 37.51 ZAL 160.91 ZAP 89.47 ETS 1.73 ZAE 141.82 ETE 108.19 ZAC 98.06 ETC 157.20 CLP -89.33

PLANETOCENTRIC CONIC

C3 41.649 VHL 6.454 DLA -7.74 RAL 4.66 RAD 6568.6 VEL 12.768 PTH 2.32 VHP 4.429 DPA 37.78 RAP 358.98 ECC 1.6854
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 48 42 2154.34 -18.06 37.70 236.52 112.19 2 24 36 1554.3 -14.90 30.46
 90.00 11 50 12 5282.83 27.10 239.12 241.79 81.45 13 18 14 4682.8 25.64 230.76
 100.00 3 6 19 1903.94 -19.34 18.73 235.96 113.25 3 38 3 1303.9 -16.02 11.50
 100.00 13 15 16 5008.46 28.46 218.69 241.55 80.45 14 38 44 4408.5 26.85 210.26
 110.00 4 6 3 1716.89 -22.73 2.86 234.28 116.25 4 34 40 1116.9 -19.01 355.69
 110.00 14 32 1 4768.27 32.13 199.64 240.72 77.64 15 51 29 4168.3 30.09 191.02

DIFFERENTIAL CORRECTIONS

TDE -.5220 TRA -.8795 TC3 -.3911 BAU .4030
 RDE .0307 RRA .4395 RC3 .6090 FAU .10893
 FDE-1.7485 FRA-1.1265 FC3-2.2642 BSP 3643
 BDE .5230 BRA .9832 BC3 .7237 FSP -929

MID-COURSE EXECUTION ACCURACY

SGT 1044.3 SGR 879.6 SG3 298.9
 RRT -.7835 RRF -.8994 RTF .8276
 SGB 1365.3 R23 .1702 R13 -.9050
 SG1 1291.9 SG2 441.8 THA 141.21

ORBIT DETERMINATION ACCURACY

ST 520.5 SR 123.5 SS 606.1
 CRT -.6367 CRS .4099 CST -.9611
 LSA 793.9 MSA 151.2 SSA 22.1
 EL1 526.6 EL2 94.1 ALF 171.12

LAUNCH DATE MAR 5 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 271.254

RL 148.38 LAL .00 LOL 164.25 VL 28.716 GAL -11.22 AZL 92.32 MCA 125.72 SMA 137.64 ECC .20904 INC 2.3151 V1 30.028
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.383 GAP .52 AZP 88.65 TAL 237.31 TAP 3.03 RCA 108.87 APO 166.42 V2 34.799
 RC 90.065 GL -10.22 GP 38.71 ZAL 159.96 ZAP 93.39 ETS 4.77 ZAE 139.61 ETE 112.93 ZAC 96.23 ETC 158.20 CLP -94.35

PLANETOCENTRIC CONIC

C3 41.131 VHL 6.413 DLA -8.74 RAL 5.54 RAD 6568.6 VEL 12.747 PTH 2.32 VHP 4.473 DPA 38.05 RAP 356.61 ECC 1.6769
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 0 4 2118.88 -17.14 35.51 237.03 112.89 2 35 23 1518.9 -13.89 28.34
 90.00 11 45 48 5311.97 27.38 241.21 242.90 82.46 13 14 20 4712.0 26.05 232.79
 100.00 3 17 10 1870.19 -18.41 16.64 236.45 113.97 3 48 20 1270.2 -15.02 9.50
 100.00 13 11 24 5035.90 28.75 220.68 242.68 81.46 14 35 20 4435.9 27.27 212.19
 110.00 4 15 43 1686.85 -21.81 1.01 234.73 117.00 4 43 50 1086.8 -18.01 353.94
 110.00 14 29 20 4792.00 32.46 201.41 241.92 78.64 15 49 12 4192.0 30.55 192.71

DIFFERENTIAL CORRECTIONS

TDE -.5983 TRA -.9372 TC3 -.4812 BAU .4367
 RDE .0710 RRA .4213 RC3 .6319 FAU .10639
 FDE-1.7863 FRA-1.0494 FC3-2.2393 BSP 4060
 BDE .6025 BRA 1.0276 BC3 .7942 FSP -929

MID-COURSE EXECUTION ACCURACY

SGT 1176.5 SGR 897.8 SG3 295.5
 RRT -.8111 RRF -.9089 RTF .8522
 SGB 1480.0 R23 .1786 R13 -.9126
 SG1 1414.0 SG2 436.9 THA 144.32

ORBIT DETERMINATION ACCURACY

ST 592.1 SR 132.9 SS 627.4
 CRT -.8055 CRS .6297 CST -.9643
 LSA 860.3 MSA 145.6 SSA 21.6
 EL1 601.9 EL2 77.5 ALF 169.57

LAUNCH DATE MAR 5 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 277.490
 RL 148.38 LAL .00 LOL 164.25 VL 28.680 GAL -11.07 AZL 92.61 HCA 128.88 SMA 137.34 ECC .20765 INC 2.6110 V1 30.028
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.352 GAP .94 AZP 88.36 TAL 236.60 TAP 5.47 RCA 108.83 APO 165.86 V2 34.795
 RC 92.449 GL -11.60 GP 39.90 ZAL 158.87 ZAP 97.03 ETS 7.89 ZAE 137.31 ETE 117.09 ZAC 94.58 ETC 159.12 CLP -99.19

PLANETOCENTRIC CONIC

C3 40.664 VHL 6.377 DLA -9.82 RAL 6.52 RAD 6568.6 VEL 12.729 PTH 2.31 VHP 4.544 DPA 38.39 RAP 354.42 ECC 1.6692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 12 37 2080.84 -16.11 33.19 237.69 113.60 2 47 18 1480.8 -12.79 26.09
 90.00 11 41 5 5344.24 27.64 243.53 244.18 83.60 13 10 9 4744.2 26.47 235.06
 100.00 3 29 7 1834.04 -17.40 14.44 237.09 114.70 3 59 41 1234.0 -13.93 7.37
 100.00 13 7 16 5066.27 29.04 222.89 243.98 82.59 14 31 43 4466.3 27.71 214.34
 110.00 4 26 21 1654.82 -20.81 359.07 235.32 117.75 4 53 56 1054.8 -16.93 352.09
 110.00 14 26 32 4818.25 32.79 203.38 243.31 79.76 15 46 50 4218.3 31.03 194.60

DIFFERENTIAL CORRECTIONS

TDE -.6831 TRA -.9908 TC3 -.5718 BAU .4701
 RDE .1099 RRA .3963 RC3 .6486 FAU .10253
 FDE -1.8038 FRA -.9538 FC3 -2.1829 BSP 4456
 BOE .6918 BRA 1.0671 BC3 .8647 FSP -906

MID-COURSE EXECUTION ACCURACY

SGT 1313.3 SGR 908.1 SG3 288.3
 RRT -.8304 RRF -.9166 RTF .8696
 SGB 1596.7 R23 .1885 R13 -.9179
 SG1 1537.0 SG2 432.3 TMA 147.22

ORBIT DETERMINATION ACCURACY

ST 671.3 SR 148.7 SS 645.3
 CRT -.9068 CRS .7789 CST -.9672
 LSA 932.2 MSA 140.3 SSA 20.9
 EL1 684.8 EL2 61.5 ALF 168.55

LAUNCH DATE MAR 5 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 283.694
 RL 148.38 LAL .00 LOL 164.25 VL 28.639 GAL -10.93 AZL 92.93 HCA 132.03 SMA 137.01 ECC .20630 INC 2.9344 V1 30.028
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.318 GAP 1.34 AZP 88.03 TAL 235.81 TAP 7.84 RCA 108.75 APO 165.28 V2 34.791
 RC 94.840 GL -13.11 GP 41.12 ZAL 157.61 ZAP 100.36 ETS 11.08 ZAE 134.95 ETE 120.71 ZAC 93.08 ETC 159.96 CLP -103.81

PLANETOCENTRIC CONIC

C3 40.266 VHL 6.346 DLA -11.00 RAL 7.62 RAD 6568.5 VEL 12.714 PTH 2.31 VHP 4.640 DPA 38.84 RAP 352.39 ECC 1.6627
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 26 35 2039.57 -14.97 30.70 238.53 114.32 3 0 34 1439.6 -11.57 23.67
 90.00 11 35 52 5380.55 27.89 246.16 245.65 84.89 13 5 33 4780.5 26.89 237.63
 100.00 3 42 24 1794.94 -16.27 12.08 237.90 115.43 4 12 19 1194.9 -12.72 5.10
 100.00 13 2 44 5100.41 29.32 225.39 245.49 83.88 14 27 44 4500.4 28.16 216.78
 110.00 4 38 9 1620.37 -19.70 357.00 236.07 118.52 5 5 9 1020.4 -15.74 350.12
 110.00 14 23 29 4847.75 33.13 205.62 244.90 81.05 15 44 16 4247.7 31.54 196.75

DIFFERENTIAL CORRECTIONS

TDE -.7778 TRA -1.0392 TC3 -.6616 BAU .5037
 RDE .1506 RRA .3672 RC3 .6616 FAU .09797
 FDE -1.8138 FRA -.8527 FC3 -2.1065 BSP 4886
 BOE .7922 BRA 1.1022 BC3 .9356 FSP -885

MID-COURSE EXECUTION ACCURACY

SGT 1453.2 SGR 915.2 SG3 279.2
 RRT -.8446 RRF -.9238 RTF .8825
 SGB 1717.4 R23 .1988 R13 -.9221
 SG1 1663.2 SG2 428.1 TMA 149.78

ORBIT DETERMINATION ACCURACY

ST 759.0 SR 171.5 SS 664.1
 CRT -.9621 CRS .8753 CST -.9701
 LSA 1013.8 MSA 135.4 SSA 20.1
 EL1 776.8 EL2 45.7 ALF 167.69

LAUNCH DATE MAR 5 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 289.867
 RL 148.38 LAL .00 LOL 164.25 VL 28.595 GAL -10.77 AZL 93.29 HCA 135.18 SMA 136.66 ECC .20500 INC 3.2916 V1 30.028
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.282 GAP 1.72 AZP 87.66 TAL 234.95 TAP 10.13 RCA 108.64 APO 164.67 V2 34.788
 RC 97.236 GL -14.78 GP 42.40 ZAL 156.17 ZAP 103.35 ETS 14.36 ZAE 132.54 ETE 123.84 ZAC 91.75 ETC 160.70 CLP -108.22

PLANETOCENTRIC CONIC

C3 39.961 VHL 6.321 DLA -12.30 RAL 8.84 RAD 6568.5 VEL 12.702 PTH 2.31 VHP 4.764 DPA 39.42 RAP 350.49 ECC 1.6577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 42 17 1994.26 -13.69 27.99 239.57 115.03 3 15 31 1394.3 -10.20 21.05
 90.00 11 29 57 5422.02 28.10 249.17 247.35 86.39 13 0 19 4822.0 27.31 240.60
 100.00 3 57 20 1752.14 -15.00 9.54 238.92 116.16 4 26 32 1152.1 -11.37 2.64
 100.00 12 57 35 5139.37 29.56 228.26 247.23 85.37 14 23 15 4539.4 28.61 219.59
 110.00 4 51 22 1582.92 -18.47 354.80 237.02 119.29 5 17 45 982.9 -14.43 348.02
 110.00 14 20 3 4881.35 33.45 208.19 246.75 82.53 15 41 24 4281.3 32.06 199.23

DIFFERENTIAL CORRECTIONS

TDE -.8832 TRA -1.0804 TC3 -.7482 BAU .5359
 RDE .1911 RRA .3319 RC3 .6682 FAU .09247
 FDE -1.8092 FRA -.7412 FC3 -2.0033 BSP 5293
 BOE .9036 BRA 1.1302 BC3 1.0031 FSP -847

MID-COURSE EXECUTION ACCURACY

SGT 1593.7 SGR 915.7 SG3 267.4
 RRT -.8540 RRF -.9300 RTF .8916
 SGB 1838.1 R23 .2106 R13 -.9250
 SG1 1788.4 SG2 424.5 TMA 152.16

ORBIT DETERMINATION ACCURACY

ST 855.6 SR 198.0 SS 681.0
 CRT -.9870 CRS .9315 CST -.9727
 LSA 1103.3 MSA 131.3 SSA 19.0
 EL1 877.6 EL2 31.0 ALF 167.12

LAUNCH DATE MAR 5 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 296.012
 RL 148.38 LAL .00 LOL 164.25 VL 28.547 GAL -10.61 AZL 93.69 HCA 138.33 SMA 136.28 ECC .20375 INC 3.6905 V1 30.028
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.245 GAP 2.08 AZP 87.24 TAL 234.02 TAP 12.35 RCA 108.51 APO 164.05 V2 34.786
 RC 99.636 GL -16.64 GP 43.77 ZAL 154.53 ZAP 105.98 ETS 17.74 ZAE 130.10 ETE 126.52 ZAC 90.55 ETC 161.35 CLP -112.42

PLANETOCENTRIC CONIC

C3 39.783 VHL 6.307 DLA -13.73 RAL 10.22 RAD 6568.5 VEL 12.694 PTH 2.31 VHP 4.917 DPA 40.18 RAP 348.70 ECC 1.6547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 0 10 1943.85 -12.21 25.02 240.87 115.75 3 32 34 1343.9 -8.65 18.15
 90.00 11 23 1 5470.16 28.26 252.69 249.33 88.14 12 54 11 4870.2 27.70 244.07
 100.00 4 14 17 1704.74 -13.56 6.76 240.19 116.90 4 42 41 1104.7 -9.85 359.94
 100.00 12 51 35 5184.51 29.77 231.60 249.26 87.11 14 18 0 4584.5 29.05 222.87
 110.00 5 6 17 1541.83 -17.08 352.42 238.21 120.07 5 31 59 941.8 -12.96 345.74
 110.00 14 16 4 4920.18 33.76 211.18 248.90 84.28 15 38 4 4320.2 32.60 202.14

DIFFERENTIAL CORRECTIONS

TDE -1.0022 TRA -1.1139 TC3 -.8307 BAU .5678
 RDE .2345 RRA .2927 RC3 .6707 FAU .08657
 FDE -1.8002 FRA -.6299 FC3 -1.8839 BSP 5729
 BOE 1.0293 BRA 1.1517 BC3 1.0677 FSP -811

MID-COURSE EXECUTION ACCURACY

SGT 1735.5 SGR 914.4 SG3 254.4
 RRT -.8605 RRF -.9361 RTF .8988
 SGB 1961.6 R23 .2226 R13 -.9275
 SG1 1915.7 SG2 422.0 TMA 154.27

ORBIT DETERMINATION ACCURACY

ST 963.0 SR 229.7 SS 699.4
 CRT -.9963 CRS .9643 CST -.9752
 LSA 1205.2 MSA 128.3 SSA 17.7
 EL1 989.9 EL2 19.3 ALF 166.63

LAUNCH DATE MAR 5 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 302.129

RL 148.38 LAL .00 LOL 164.25 VL 28.497 GAL -10.44 AZL 94.14 HCA 141.48 SMA 135.88 ECC .20253 INC 4.1420 V1 30.02H
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.206 GAP 2.43 AZP 86.76 TAL 233.02 TAP 14.50 RCA 108.36 APO 163.40 V2 34.784
 RC 102.038 GL -18.72 GP 45.30 ZAL 152.66 ZAP 108.23 ETS 21.23 ZAE 127.60 ETE 128.82 ZAC 89.48 ETC 161.91 CLP -116.40

PLANETOCENTRIC CONIC

C3 39.779 VHL 6.307 DLA -15.34 RAL 11.76 RAD 6568.5 VEL 12.694 PTH 2.31 VHP 5.102 DPA 41.14 RAP 346.96 ECC 1.6547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 50 1886.94 -10.51 21.71 242.51 116.45 3 52 17 1286.9 -6.87 14.92
 90.00 11 14 39 5527.03 28.32 256.85 251.63 90.23 12 46 46 4927.0 28.05 248.19
 100.00 4 33 48 1651.54 -11.90 3.68 241.78 117.62 5 1 19 1051.5 -8.11 356.94
 100.00 12 44 23 5237.66 29.88 235.55 251.62 89.19 14 11 40 4637.7 29.45 226.77
 110.00 5 23 22 1496.27 -15.51 349.82 239.70 120.85 5 48 18 896.3 -11.31 343.24
 110.00 14 11 18 4965.70 34.01 214.71 251.43 86.35 15 34 4 4365.7 33.13 205.58

DIFFERENTIAL CORRECTIONS

TOE-1.1365 TRA-1.1365 TC3 -.9051 BAU .5976
 RDE .2788 RRA .2469 RC3 .6658 FAU .08001
 FDE-1.7809 FRA -.5134 FC3-1.7412 BSP 6135
 BOE 1.1702 BRA 1.1630 BC3 1.1236 FSP -762

MID-COURSE EXECUTION ACCURACY

SGT 1875.0 SGR 907.5 SG3 239.4
 RRT -.8635 RRF -.9414 RTF .9040
 SGB 2083.1 R23 .2358 R13 -.9291
 SG1 2040.2 SG2 420.6 THA 156.25

ORBIT DETERMINATION ACCURACY

ST 1081.8 SR 263.9 SS 716.6
 CRT -.9974 CRS .9825 CST -.9776
 LSA 1318.0 MSA 126.6 SSA 16.1
 EL1 1113.4 EL2 18.4 ALF 166.32

LAUNCH DATE MAR 5 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 308.219

RL 148.38 LAL .00 LOL 164.25 VL 28.445 GAL -10.26 AZL 94.66 HCA 144.62 SMA 135.46 ECC .20136 INC 4.6604 V1 30.02H
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.166 GAP 2.76 AZP 86.20 TAL 231.96 TAP 16.58 RCA 108.19 APO 162.74 V2 34.783
 RC 104.441 GL -21.07 GP 47.01 ZAL 150.51 ZAP 110.07 ETS 24.86 ZAE 125.04 ETE 130.81 ZAC 88.48 ETC 162.40 CLP -120.21

PLANETOCENTRIC CONIC

C3 40.023 VHL 6.326 DLA -17.16 RAL 13.51 RAD 6568.5 VEL 12.704 PTH 2.31 VHP 5.327 DPA 42.32 RAP 345.19 ECC 1.65H7
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 45 11 1821.52 -8.50 17.95 244.58 117.11 4 15 32 1221.5 -4.80 11.23
 90.00 11 4 15 5595.53 28.20 261.85 254.31 92.74 12 37 30 4995.5 28.28 253.19
 100.00 4 56 39 1590.89 -9.97 .22 243.80 118.33 5 23 10 990.9 -6.10 353.56
 100.00 12 35 27 5301.39 29.85 240.29 254.38 91.68 14 3 49 4701.4 29.76 231.48
 110.00 5 43 10 1445.18 -13.71 346.96 241.59 121.63 6 7 15 845.2 -9.42 340.48
 110.00 14 5 26 5019.87 34.17 218.93 254.41 88.85 15 29 6 4419.9 33.63 209.73

DIFFERENTIAL CORRECTIONS

TOE-1.2925 TRA-1.1481 TC3 -.9706 BAU .6265
 RDE .3270 RRA .1963 RC3 .6549 FAU .07325
 FDE-1.7596 FRA -.4009 FC3-1.5845 BSP 6571
 BOE 1.3332 BRA 1.1647 BC3 1.1709 FSP -716

MID-COURSE EXECUTION ACCURACY

SGT 2015.6 SGR 899.5 SG3 223.7
 RRT -.8642 RRF -.9464 RTF .9085
 SGB 2207.2 R23 .2486 R13 -.9308
 SG1 2166.6 SG2 420.9 THA 158.04

ORBIT DETERMINATION ACCURACY

ST 1215.8 SR 302.4 SS 735.8
 CRT -.9950 CRS .9924 CST -.9799
 LSA 1447.3 MSA 126.3 SSA 14.3
 EL1 1252.5 EL2 29.3 ALF 166.09

LAUNCH DATE MAR 5 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 314.283

RL 148.38 LAL .00 LOL 164.25 VL 28.390 GAL -10.08 AZL 95.27 HCA 147.77 SMA 135.04 ECC .20024 INC 5.2657 V1 30.02H
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.125 GAP 3.07 AZP 85.54 TAL 230.84 TAP 18.61 RCA 108.00 APO 162.08 V2 34.783
 RC 106.844 GL -23.74 GP 48.96 ZAL 148.04 ZAP 111.46 ETS 28.67 ZAE 122.38 ETE 132.54 ZAC 87.52 ETC 162.86 CLP -123.87

PLANETOCENTRIC CONIC

C3 40.618 VHL 6.373 DLA -19.23 RAL 15.50 RAD 6568.6 VEL 12.727 PTH 2.31 VHP 5.599 DPA 43.74 RAP 343.29 ECC 1.6685
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 33 1744.41 -6.08 13.58 247.24 117.71 4 43 37 1144.4 -2.33 6.91
 90.00 10 50 46 5680.10 27.77 268.00 257.44 95.79 12 25 27 5080.1 28.28 259.37
 100.00 5 23 59 1520.33 -7.66 356.25 246.38 118.98 5 49 20 920.3 -3.74 349.66
 100.00 12 24 1 5379.41 29.55 246.07 257.62 94.71 13 53 41 4779.4 29.89 237.28
 110.00 6 6 29 1387.15 -11.61 343.77 244.01 122.38 6 29 37 787.2 -7.26 337.39
 110.00 13 58 1 5085.35 34.14 224.05 257.93 91.87 15 22 46 4485.4 34.02 214.80

DIFFERENTIAL CORRECTIONS

TOE-1.4753 TRA-1.1449 TC3-1.0215 BAU .6531
 RDE .3783 RRA .1386 RC3 .6349 FAU .06617
 FDE-1.7337 FRA -.2903 FC3-1.4103 BSP 7000
 BOE 1.5230 BRA 1.1532 BC3 1.2028 FSP -665

MID-COURSE EXECUTION ACCURACY

SGT 2154.7 SGR 887.7 SG3 206.9
 RRT -.8620 RRF -.9506 RTF .9125
 SGB 2330.4 R23 .2609 R13 -.9324
 SG1 2291.7 SG2 423.2 THA 159.73

ORBIT DETERMINATION ACCURACY

ST 1366.6 SR 343.2 SS 755.5
 CRT -.9912 CRS .9974 CST -.9823
 LSA 1593.7 MSA 127.5 SSA 12.5
 EL1 1408.3 EL2 44.0 ALF 166.01

LAUNCH DATE MAR 5 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 320.321

RL 148.38 LAL .00 LOL 164.25 VL 28.333 GAL -9.89 AZL 95.99 HCA 150.91 SMA 134.60 ECC .19916 INC 5.9865 V1 30.02H
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.084 GAP 3.38 AZP 84.76 TAL 229.67 TAP 20.57 RCA 107.79 APO 161.40 V2 34.784
 RC 109.246 GL -26.78 GP 51.22 ZAL 145.19 ZAP 112.38 ETS 32.70 ZAE 119.57 ETE 134.10 ZAC 86.54 ETC 163.32 CLP -127.45

PLANETOCENTRIC CONIC

C3 41.732 VHL 6.460 DLA -21.59 RAL 17.80 RAD 6568.6 VEL 12.771 PTH 2.32 VHP 5.935 DPA 45.42 RAP 341.15 ECC 1.6868
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 51 19 1649.96 -3.07 8.27 250.76 118.16 5 18 49 1050.0 .72 1.64
 90.00 10 32 22 5788.21 26.78 275.76 261.03 99.55 12 8 51 5188.2 27.83 267.25
 100.00 5 57 41 1435.76 -4.85 351.55 249.78 119.53 6 21 36 835.8 -.88 345.01
 100.00 12 8 41 5477.64 28.79 253.27 261.39 98.42 13 39 59 4877.6 29.65 244.57
 110.00 6 34 33 1320.17 -9.15 340.15 247.14 123.08 6 56 33 720.2 -4.73 333.85
 110.00 13 48 18 5165.99 33.78 230.31 262.11 95.57 15 14 24 4566.0 34.18 221.09

DIFFERENTIAL CORRECTIONS

TOE-1.6943 TRA-1.1228 TC3-1.0524 BAU .6765
 RDE .4310 RRA .0712 RC3 .6023 FAU .05873
 FDE-1.7013 FRA -.1813 FC3-1.2184 BSP 7400
 BOE 1.7482 BRA 1.1250 BC3 1.2126 FSP -605

MID-COURSE EXECUTION ACCURACY

SGT 2292.1 SGR 869.6 SG3 189.0
 RRT -.8555 RRF -.9534 RTF .9161
 SGB 2451.6 R23 .2726 R13 -.9339
 SG1 2414.0 SG2 427.6 THA 161.41

ORBIT DETERMINATION ACCURACY

ST 1537.2 SR 383.5 SS 774.5
 CRT -.9871 CRS .9994 CST -.9845
 LSA 1758.7 MSA 130.0 SSA 10.5
 EL1 1583.2 EL2 59.7 ALF 166.14

LAUNCH DATE MAR 5 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 23 1969

DISTANCE 326.334

HELIOCENTRIC CONIC
RL 148.38 LAL .00 LOL 164.25 VL 28.275 GAL -9.69 AZL 96.86 HCA 154.04 SMA 134.15 ECC .19812 INC 6.8648 V1 30.028
RP 108.94 LAP -3.00 LOP 318.45 VP 38.042 GAP 3.66 AZP 83.82 TAL 228.44 TAP 22.49 RCA 107.57 APO 160.73 V2 34.785
RC 111.645 GL -30.29 GP 53.83 ZAL 141.88 ZAP 112.79 ETS 37.00 ZAE 116.56 ETE 135.60 ZAC 85.49 ETC 163.88 CLP-131.02

PLANETOCENTRIC CONIC
C3 43.637 VHL 6.606 DLA -24.29 RAL 20.49 RAD 6568.7 VEL 12.845 PTH 2.34 VHP 6.357 DPA 47.36 RAP 338.58 ECC 1.7181
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 5 40 27 1525.12 .96 1.31 255.59 118.30 6 5 52 925.1 4.73 354.66
90.00 10 4 43 647.50 24.70 308.13 265.00 104.30 10 15 31 47.5 26.43 299.89
100.00 6 41 14 1328.91 -1.24 345.67 254.37 119.87 7 3 23 728.9 2.75 339.15
100.00 11 46 38 5606.99 27.14 262.53 265.66 103.02 13 20 5 5007.0 28.67 254.05
110.00 7 9 16 1241.02 -6.18 335.95 251.30 123.69 7 29 57 641.0 -1.71 329.71
110.00 13 35 5 5267.64 32.84 238.10 267.00 100.08 15 2 53 4667.6 33.88 229.01

MID-COURSE EXECUTION ACCURACY
SGT 2430.7 SGR 846.7 SG3 170.7
RRT -.8444 RRF -.9538 RTF .9205
SGB 2574.0 R23 .2813 R13 -.9364
SG1 2537.0 SG2 434.6 THA 163.10

ORBIT DETERMINATION ACCURACY
ST 1732.8 SR 421.9 SS 795.0
CRT -.9830 CRS .9995 CST -.9868
LSA 1947.9 MSA 133.6 SSA 8.7
EL1 1781.8 EL2 75.4 ALF 166.52

DIFFERENTIAL CORRECTIONS
TDE-1.9654 TRA-1.0774 TC3-1.0573 BAU .6969
RDE .4857 RRA -.0065 RC3 .5559 FAU .05123
FDE-1.6680 FRA -.0798 FC3-1.0165 BSP 7831
BOE 2.0246 BRA 1.0775 BC3 1.1945 FSP -549

LAUNCH DATE MAR 5 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 25 1969

DISTANCE 332.321

HELIOCENTRIC CONIC
RL 148.38 LAL .00 LOL 164.25 VL 28.216 GAL -9.48 AZL 97.97 HCA 157.17 SMA 133.69 ECC .19713 INC 7.9656 V1 30.028
RP 108.93 LAP -3.08 LOP 321.61 VP 37.999 GAP 3.94 AZP 82.65 TAL 227.17 TAP 24.34 RCA 107.34 APO 160.05 V2 34.787
RC 114.042 GL -34.32 GP 56.88 ZAL 138.02 ZAP 112.62 ETS 41.70 ZAE 113.26 ETE 137.21 ZAC 84.26 ETC 164.68 CLP-134.74

PLANETOCENTRIC CONIC
C3 46.798 VHL 6.841 DLA -27.37 RAL 23.70 RAD 6568.7 VEL 12.968 PTH 2.36 VHP 6.902 DPA 49.54 RAP 335.34 ECC 1.7702
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
90.00 7 1 5 1313.58 7.71 349.42 263.04 117.33 7 22 58 713.6 11.31 342.60
90.00 9 9 42 894.19 19.59 324.39 268.49 110.87 9 24 36 294.2 22.25 316.73
100.00 7 43 53 1175.24 3.97 337.23 261.00 119.65 8 3 29 575.2 7.88 330.63
100.00 11 9 34 5795.81 23.59 275.42 270.05 108.91 12 46 10 5195.8 25.95 267.42
110.00 7 54 2 1143.38 -2.47 330.82 257.00 124.10 8 13 5 543.4 2.02 324.62
110.00 13 15 55 5400.42 30.83 247.92 272.57 105.56 14 45 55 4800.4 32.65 239.17

MID-COURSE EXECUTION ACCURACY
SGT 2567.5 SGR 810.7 SG3 151.5
RRT -.8237 RRF -.9489 RTF .9258
SGB 2692.4 R23 .2868 R13 -.9396
SG1 2655.5 SG2 444.4 THA 164.99

ORBIT DETERMINATION ACCURACY
ST 1954.8 SR 448.1 SS 813.7
CRT -.9781 CRS .9980 CST -.9890
LSA 2159.8 MSA 138.0 SSA 7.0
EL1 2003.4 EL2 90.9 ALF 167.34

DIFFERENTIAL CORRECTIONS
TDE-2.3089 TRA -.9973 TC3-1.0253 BAU .7108
RDE .5334 RRA -.1004 RC3 .4896 FAU .04351
FDE-1.6286 FRA .0175 FC3 -.8050 BSP 8210
BOE 2.3697 BRA 1.0023 BC3 1.1361 FSP -484

LAUNCH DATE MAR 5 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 27 1969

DISTANCE 338.280

HELIOCENTRIC CONIC
RL 148.38 LAL .00 LOL 164.25 VL 28.155 GAL -9.26 AZL 99.39 HCA 160.29 SMA 133.24 ECC .19617 INC 9.3945 V1 30.028
RP 108.93 LAP -3.16 LOP 324.78 VP 37.957 GAP 4.20 AZP 81.15 TAL 225.85 TAP 26.14 RCA 107.10 APO 159.37 V2 34.790
RC 116.435 GL -38.94 GP 60.43 ZAL 133.52 ZAP 111.82 ETS 46.99 ZAE 109.58 ETE 139.22 ZAC 82.75 ETC 165.97 CLP-138.88

PLANETOCENTRIC CONIC
C3 52.078 VHL 7.217 DLA -30.84 RAL 27.60 RAD 6568.9 VEL 13.170 PTH 2.41 VHP 7.635 DPA 51.90 RAP 331.06 ECC 1.8571
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
77.25 6 39 5 1458.10 14.33 3.55 272.25 117.60 7 3 23 858.1 17.91 356.52
102.75 10 2 47 803.02 14.34 315.23 272.26 117.60 10 16 10 203.0 17.93 308.20
77.25 6 39 5 1458.10 14.33 3.55 272.25 117.60 7 3 23 858.1 17.91 356.52
102.75 10 2 47 803.02 14.34 315.23 272.26 117.60 10 16 10 203.0 17.93 308.20
110.00 8 56 56 1009.48 2.65 323.83 265.22 124.09 9 13 46 409.5 7.11 317.58
110.00 12 44 5 5587.68 26.68 260.90 278.36 112.21 14 17 13 4987.7 29.45 252.81

MID-COURSE EXECUTION ACCURACY
SGT 2708.0 SGR 756.5 SG3 132.2
RRT -.7860 RRF -.9316 RTF .9334
SGB 2811.7 R23 .2851 R13 -.9447
SG1 2774.4 SG2 456.5 THA 167.26

ORBIT DETERMINATION ACCURACY
ST 2208.0 SR 448.4 SS 832.7
CRT -.9708 CRS .9939 CST -.9912
LSA 2397.8 MSA 142.6 SSA 5.5
EL1 2250.6 EL2 105.5 ALF 168.82

DIFFERENTIAL CORRECTIONS
TDE-2.7639 TRA -.8688 TC3 -.9481 BAU .7169
RDE .5594 RRA -.2126 RC3 .4019 FAU .03585
FDE-1.5892 FRA .1050 FC3 -.5960 BSP 8624
BOE 2.8199 BRA .8944 BC3 1.0297 FSP -422

LAUNCH DATE MAR 5 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 29 1969

DISTANCE 344.206

HELIOCENTRIC CONIC
RL 148.38 LAL .00 LOL 164.25 VL 28.094 GAL -9.03 AZL 101.34 HCA 163.39 SMA 132.77 ECC .19525 INC 11.3351 V1 30.028
RP 108.91 LAP -3.22 LOP 327.95 VP 37.914 GAP 4.45 AZP 79.13 TAL 224.48 TAP 27.87 RCA 106.85 APO 158.70 V2 34.794
RC 118.823 GL -44.19 GP 64.56 ZAL 128.30 ZAP 110.33 ETS 53.32 ZAE 105.36 ETE 142.17 ZAC 80.80 ETC 168.30 CLP-144.00

PLANETOCENTRIC CONIC
C3 61.205 VHL 7.823 DLA -34.64 RAL 32.43 RAD 6569.1 VEL 13.512 PTH 2.47 VHP 8.666 DPA 54.27 RAP 325.23 ECC 2.0073
LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
69.16 6 5 35 1661.57 14.52 19.25 280.41 121.80 6 33 17 1061.6 18.62 12.50
110.84 11 14 52 678.88 14.53 305.84 280.42 121.80 11 26 10 78.9 18.63 299.08
69.16 6 5 35 1661.57 14.52 19.25 280.41 121.80 6 33 17 1061.6 18.62 12.50
110.84 11 14 52 678.88 14.53 305.84 280.42 121.80 11 26 10 78.9 18.63 299.08
69.16 6 5 35 1661.57 14.52 19.25 280.41 121.80 6 33 17 1061.6 18.62 12.50
110.84 11 14 52 678.88 14.53 305.84 280.42 121.80 11 26 10 78.9 18.63 299.08

MID-COURSE EXECUTION ACCURACY
SGT 2850.2 SGR 665.6 SG3 112.8
RRT -.6987 RRF -.8745 RTF .9442
SGB 2926.8 R23 .2744 R13 -.9520
SG1 2888.9 SG2 469.8 THA 170.48

ORBIT DETERMINATION ACCURACY
ST 2487.7 SR 386.4 SS 850.7
CRT -.9507 CRS .9799 CST -.9934
LSA 2653.3 MSA 146.8 SSA 4.2
EL1 2514.8 EL2 118.6 ALF 171.58

DIFFERENTIAL CORRECTIONS
TDE-3.3879 TRA -.6583 TC3 -.8144 BAU .7073
RDE .5117 RRA -.3496 RC3 .2899 FAU .02820
FDE-1.5496 FRA .1865 FC3 -.3388 BSP 9007
BOE 3.4263 BRA .7454 BC3 .8644 FSP -358

LAUNCH DATE MAR 5 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 350.089

RL 148.38 LAL .00 LOL 164.25 VL 28.031 GAL -8.79 AZL 104.13 HCA 166.47 SMA 132.31 ECC .19432 INC14.1344 V1 30.028
 RP 108.90 LAP -3.27 LOP 331.12 VP 37.872 GAP 4.68 AZP 76.24 TAL 223.05 TAP 29.53 RCA 106.60 APO 158.02 V2 34.798
 RC 121.206 GL -49.97 GP 69.29 ZAL 122.31 ZAP 108.11 ETS 61.81 ZAE 100.41 ETE 147.31 ZAC 78.19 ETC 172.88 CLP-151.54

PLANETOCENTRIC CONIC

C3 78.056 VHL 8.835 DLA -38.55 RAL 38.55 RAD 6569.5 VEL 14.121 PTH 2.57 VHP 10.208 DPA 56.29 RAP 317.15 ECC 2.2846
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.67 5 55 16 1822.00 13.65 31.56 290.80 126.41 6 25 38 1222.0 18.29 25.21
 117.33 12 14 1 633.68 13.66 301.59 290.81 126.41 12 24 34 33.7 18.31 295.24
 62.67 5 55 16 1822.00 13.65 31.56 290.80 126.41 6 25 38 1222.0 18.29 25.21
 117.33 12 14 1 633.68 13.66 301.59 290.81 126.41 12 24 34 33.7 18.31 295.24
 62.67 5 55 16 1822.00 13.65 31.56 290.80 126.41 6 25 38 1222.0 18.29 25.21
 117.33 12 14 1 633.68 13.66 301.59 290.81 126.41 12 24 34 33.7 18.31 295.24

DIFFERENTIAL CORRECTIONS

TOE-4.2755 TRA -.2998 TC3 -.6198 BAU .6682
 RDE .2369 RRA -.5012 RC3 .1607 FAU .02074
 FDE-1.5215 FRA .2637 FC3 -.2300 BSP 9379
 BDE 4.2820 BRA .5840 BC3 .6403 FSP -297

MID-COURSE EXECUTION ACCURACY

SGT 2991.5 SGR 526.3 SG3 94.1
 RRT -.4025 RRF -.6243 RTF .9595
 SGB 3037.4 R23 .2489 R13 -.9624
 SG1 2999.2 SG2 480.5 THA 175.84

ORBIT DETERMINATION ACCURACY

ST 2773.9 SR 198.1 SS 872.2
 CRT -.7590 CRS .8163 CST -.9957
 LSA 2910.7 MSA 149.2 SSA 3.1
 EL1 2778.0 EL2 128.8 ALF 176.89

LAUNCH DATE MAR 5 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 355.907

RL 148.38 LAL .00 LOL 164.25 VL 27.968 GAL -8.53 AZL 108.53 HCA 169.50 SMA 131.85 ECC .19335 INC18.5299 V1 30.028
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.830 GAP 4.89 AZP 71.76 TAL 221.57 TAP 31.07 RCA 106.35 APO 157.34 V2 34.803
 RC 123.581 GL -55.88 GP 74.36 ZAL 115.60 ZAP 105.14 ETS 75.58 ZAE 94.33 ETE 157.89 ZAC 74.48 ETC 183.03 CLP-165.71

PLANETOCENTRIC CONIC

C3 112.747 VHL 10.618 DLA -42.00 RAL 46.35 RAD 6570.1 VEL 15.300 PTH 2.74 VHP 12.713 DPA 57.23 RAP 306.13 ECC 2.8555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.58 6 3 15 1967.09 11.14 41.85 303.69 130.76 6 36 3 1367.1 16.29 35.96
 122.42 13 8 11 648.95 11.16 300.85 303.71 130.76 13 19 0 49.0 16.31 294.96
 57.58 6 3 15 1967.09 11.14 41.85 303.69 130.76 6 36 3 1367.1 16.29 35.96
 122.42 13 8 11 648.95 11.16 300.85 303.71 130.76 13 19 0 49.0 16.31 294.96
 57.58 6 3 15 1967.09 11.14 41.85 303.69 130.76 6 36 3 1367.1 16.29 35.96
 122.42 13 8 11 648.95 11.16 300.85 303.71 130.76 13 19 0 49.0 16.31 294.96

DIFFERENTIAL CORRECTIONS

TOE-5.4914 TRA .3612 TC3 -.3717 BAU .5632
 RDE -.8206 RRA -.5738 RC3 .0382 FAU .01333
 FDE-1.5283 FRA .3513 FC3 -.1024 BSP 9744
 BDE 5.5524 BRA .6780 BC3 .3736 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 3077.7 SGR 613.4 SG3 76.9
 RRT .6033 RRF .4419 RTF .9790
 SGB 3138.2 R23 -.2053 R13 .9752
 SG1 3100.4 SG2 485.6 THA 7.03

ORBIT DETERMINATION ACCURACY

ST 2964.3 SR 460.1 SS 909.8
 CRT .9548 CRS -.9331 CST -.9978
 LSA 3131.1 MSA 149.4 SSA 2.3
 EL1 2996.7 EL2 135.4 ALF 8.45

LAUNCH DATE MAR 5 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 361.601

RL 148.38 LAL .00 LOL 164.25 VL 27.905 GAL -8.24 AZL 116.35 HCA 172.43 SMA 131.39 ECC .19219 INC26.3515 V1 30.028
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.788 GAP 5.07 AZP 63.85 TAL 219.98 TAP 32.41 RCA 106.13 APO 156.64 V2 34.808
 RC 125.948 GL -60.64 GP 77.86 ZAL 108.40 ZAP 101.48 ETS 103.22 ZAE 86.29 ETE 182.61 ZAC 68.76 ETC 207.56 CLP 161.15

PLANETOCENTRIC CONIC

C3 197.824 VHL 14.065 DLA -43.63 RAL 55.92 RAD 6571.1 VEL 17.865 PTH 3.00 VHP 17.288 DPA 55.54 RAP 292.20 ECC 4.2557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.30 6 32 6 2093.80 6.80 49.11 318.72 133.21 7 6 59 1493.8 12.23 43.57
 124.70 13 55 42 725.21 6.82 303.64 318.73 133.20 14 7 47 125.2 12.25 298.10
 55.30 6 32 6 2093.80 6.80 49.11 318.72 133.21 7 6 59 1493.8 12.23 43.57
 124.70 13 55 42 725.21 6.82 303.64 318.73 133.20 14 7 47 125.2 12.25 298.10
 55.30 6 32 6 2093.80 6.80 49.11 318.72 133.21 7 6 59 1493.8 12.23 43.57
 124.70 13 55 42 725.21 6.82 303.64 318.73 133.20 14 7 47 125.2 12.25 298.10

DIFFERENTIAL CORRECTIONS

TOE-6.0072 TRA 1.5465 TC3 -.1104 BAU .2919
 RDE-4.5697 RRA .0644 RC3 -.0017 FAU .00481
 FDE-1.6297 FRA .4964 FC3 -.0210 BSP 9990
 BDE 7.5477 BRA 1.5479 BC3 .1104 FSP -196

MID-COURSE EXECUTION ACCURACY

SGT 2615.8 SGR 1861.9 SG3 62.4
 RRT .9421 RRF .9262 RTF .9977
 SGB 3210.8 R23 -.1534 R13 .9867
 SG1 3169.1 SG2 515.3 THA 34.90

ORBIT DETERMINATION ACCURACY

ST 2461.0 SR 1861.6 SS 999.5
 CRT .9950 CRS -.9928 CST -.9998
 LSA 3239.8 MSA 158.3 SSA 1.7
 EL1 3082.2 EL2 149.2 ALF 37.07

LAUNCH DATE MAR 5 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 366.970

RL 148.38 LAL .00 LOL 164.25 VL 27.841 GAL -7.88 AZL 133.05 HCA 175.05 SMA 130.93 ECC .19037 INC43.0538 V1 30.028
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.747 GAP 5.14 AZP 47.05 TAL 218.18 TAP 33.23 RCA 106.00 APO 155.85 V2 34.815
 RC 128.306 GL -60.27 GP 72.29 ZAL 101.32 ZAP 97.43 ETS 146.05 ZAE 73.86 ETE 222.62 ZAC 58.40 ETC 248.30 CLP 115.17

PLANETOCENTRIC CONIC

C3 470.052 VHL 21.681 DLA -40.06 RAL 65.90 RAD 6572.3 VEL 24.318 PTH 3.32 VHP 27.060 DPA 47.85 RAP 277.31 ECC 8.7359
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.39 7 33 37 2137.31 1.84 48.48 333.69 130.02 8 9 14 1537.3 6.96 42.74
 119.61 14 13 49 887.85 1.86 313.39 333.71 130.02 14 28 37 287.9 6.98 307.65
 60.39 7 33 37 2137.31 1.84 48.48 333.69 130.02 8 9 14 1537.3 6.96 42.74
 119.61 14 13 49 887.85 1.86 313.39 333.71 130.02 14 28 37 287.9 6.98 307.65
 60.39 7 33 37 2137.31 1.84 48.48 333.69 130.02 8 9 14 1537.3 6.96 42.74
 119.61 14 13 49 887.85 1.86 313.39 333.71 130.02 14 28 37 287.9 6.98 307.65

DIFFERENTIAL CORRECTIONS

TOE-1.0951 TRA 2.1642 TC3 -.0100 BAU .7806
 RO-10.6983 RRA 3.2068 RC3 .1238 FAU-.01115
 FDE-1.9659 FRA .8616 FC3 .0205 BSP 9913
 BOE10.7542 BRA 3.8688 BC3 .1242 FSP -166

MID-COURSE EXECUTION ACCURACY

SGT 802.5 SGR 3083.4 SG3 52.3
 RRT .6556 RRF .9892 RTF .7593
 SGB 3186.2 R23 -.1132 R13 .9935
 SG1 3129.7 SG2 597.0 THA 79.95

ORBIT DETERMINATION ACCURACY

ST 366.1 SR 2846.8 SS 1232.5
 CRT .8566 CRS -.9986 CST -.8828
 LSA 3117.5 MSA 194.8 SSA .5
 EL1 2864.0 EL2 187.8 ALF 83.69

LAUNCH DATE MAR 5 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 148.38 LAL .00 LOL 164.25 VL 27.777 GAL -7.28 AZL 172.48 HCA 176.58 SMA 130.47 ECC .18603 INC82.4745 V1 30.028
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.706 GAP 4.90 AZP 7.54 TAL 215.65 TAP 32.23 RCA 106.20 APO 154.74 V2 34.821
 RC 130.653 GL -45.64 GP 50.99 ZAL 95.95 ZAP 94.00 ETS 169.70 ZAE 51.33 ETE 241.21 ZAC 37.01 ETC 273.08 CLP 96.37

PLANETOCENTRIC CONIC
 C31459.653 VHL 38.205 DLA -23.73 RAL 71.70 RAD 6573.2 VEL 39.761 PTH 3.56 VHP 47.947 DPA 27.28 RAP 265.95 ECC25.0222
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 55 55 2045.06 -15.13 31.02 336.48 114.23 9 30 0 1445.1 -11.73 23.99
 90.00 13 37 48 1105.92 13.96 337.37 349.57 114.89 13 56 14 505.9 17.20 330.20
 100.00 9 58 9 1844.14 -17.69 15 05 335.27 114.50 10 28 53 1244.1 -14.23 7.96
 100.00 15 18 15 782.07 16.50 314.78 350.81 115.28 15 31 17 182.1 19.77 307.51
 110.00 10 28 19 1749.55 -23.69 90 332.29 115.39 10 57 29 1149.5 -20.08 357.63
 110.00 17 4 34 5737.47 22.46 273 49 353.87 116.47 18 40 12 5137.5 25.83 262.95

MID-COURSE EXECUTION ACCURACY
 SGT 886.6 SGR 2399.6 SG3 47.7
 RRT -.7700 RRF .9987 RTF -.7362
 SGB 2746.6 R23 -.1069 R13 .9942
 SG1 2691.7 SG2 546.3 THA 105.36

ORBIT DETERMINATION ACCURACY
 ST 698.0 SR 1810.2 SS 1559.7
 CRT -.9608 CRS -.9997 CST .9537
 LSA 2481.7 MSA 195.2 SSA .6
 EL1 1931.6 EL2 181.4 ALF 110.52

DIFFERENTIAL CORRECTIONS
 TOE 4.6446 TRA .8453 TC3 -.0695 BAU 3.7581
 RO-11.7728 RRA 8.0913 RC3 .1796 FAU-.06164
 FDE-2.4344 FRA 1.8648 FC3 .0366 BSP 8216
 BOE12.6558 BRA 8.1354 BC3 .1926 FSP -150

LAUNCH DATE MAR 5 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 148.38 LAL .00 LOL 164.25 VI 27.714 GAL -7.99 AZL 38.72 HCA 184.35 SMA 130.02 ECC .19724 INC51.2764 V1 30.028
 RP 108.80 LAP -3.39 LOP 346.97 V2 37.666 GAP 6.45 AZP 141.20 TAL 216.83 TAP 41.18 RCA 104.37 APO 155.66 V2 34.829
 RC 132.989 GL 57.67 GP -67.31 ZAL 99.75 ZAP 97.94 ETS 190.92 ZAE 73.31 ETE 116.86 ZAC 82.05 ETC 93.72 CLP 111.00

PLANETOCENTRIC CONIC
 C3 642.155 VHL 25.341 DLA 72.02 RAL 13.04 RAD 6572.6 VEL 27.631 PTH 3.41 VHP 31.629 DPA -88.22 RAP 89.77 ECC11.5682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 20.53 14 2 5 5062.85 -1.20 247.84 282.66 17.99 15 26 28 4462.8 -8.81 245.77
 159.47 0 43 36 3297.78 -1.19 95.36 282.64 17.99 1 38 34 2697.8 -8.80 93.29
 20.53 14 2 5 5062.85 -1.20 247.84 282.66 17.99 15 26 28 4462.8 -8.81 245.77
 159.47 0 43 36 3297.78 -1.19 95.36 282.64 17.99 1 38 34 2697.8 -8.80 93.29
 20.53 14 2 5 5062.85 -1.20 247.84 282.66 17.99 15 26 28 4462.8 -8.81 245.77
 159.47 0 43 36 3297.78 -1.19 95.36 282.64 17.99 1 38 34 2697.8 -8.80 93.29

MID-COURSE EXECUTION ACCURACY
 SGT 754.7 SGR 3234.5 SG3 51.5
 RRT .5550 RRF -.9974 RTF -.4980
 SGB 3321.4 R23 -.0923 R13 -.9953
 SG1 3262.5 SG2 622.4 THA 82.34

ORBIT DETERMINATION ACCURACY
 ST 221.2 SR 2578.9 SS 1360.0
 CRT -.0886 CRS .9997 CST -.1133
 LSA 2915.4 MSA 222.3 SSA 1.3
 EL1 2579.0 EL2 220.4 ALF 90.44

DIFFERENTIAL CORRECTIONS
 TOE .2941 TRA .9597 TC3 -.0526 BAU 1.5002
 RO-11.1396 RRA 2.5195 RC3 -.1666 FAU-.01892
 FDE 2.1607 FRA -.4312 FC3 .0255 BSP 10226
 BOE11.1434 BRA 2.6961 BC3 .1747 FSP -168

LAUNCH DATE MAR 5 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 148.38 LAL .00 LOL 164.25 VL 27.650 GAL -7.57 AZL 60.07 HCA 186.80 SMA 129.57 ECC .19515 INC29.9263 V1 30.028
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.627 GAP 6.46 AZP 119.75 TAL 214.89 TAP 41.69 RCA 104.28 APO 154.85 V2 34.837
 RC 135.313 GL 61.31 GP -74.95 ZAL 105.18 ZAP 103.10 ETS 232.97 ZAE 88.11 ETE 157.59 ZAC 95.45 ETC 136.43 CLP 150.82

PLANETOCENTRIC CONIC
 C3 242.948 VHL 15.587 DLA 68.53 RAL 350.72 RAD 6571.4 VEL 19.086 PTH 3.08 VHP 19.342 DPA -73.11 RAP 59.90 ECC 4.9983
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.57 12 41 42 4955.42 -7.30 243.63 257.85 21.66 14 4 18 4355.4 -14.72 241.00
 155.43 23 2 1 3211.84 -7.29 95.39 257.82 21.65 23 55 33 2611.8 -14.71 92.76
 24.57 12 41 42 4955.42 -7.30 243.63 257.85 21.66 14 4 18 4355.4 -14.72 241.00
 155.43 23 2 1 3211.84 -7.29 95.39 257.82 21.65 23 55 33 2611.8 -14.71 92.76
 24.57 12 41 42 4955.42 -7.30 243.63 257.85 21.66 14 4 18 4355.4 -14.72 241.00
 155.43 23 2 1 3211.84 -7.29 95.39 257.82 21.65 23 55 33 2611.8 -14.71 92.76

MID-COURSE EXECUTION ACCURACY
 SGT 2022.7 SGR 2985.6 SG3 61.9
 RRT -.9392 RRF -.9661 RTF .9944
 SGB 3606.3 R23 -.1482 R13 -.9878
 SG1 3558.9 SG2 582.6 THA 123.48

ORBIT DETERMINATION ACCURACY
 ST 1368.7 SR 1322.8 SS 726.0
 CRT -.9423 CRS .9646 CST -.9972
 LSA 2010.5 MSA 328.8 SSA 1.7
 EL1 1875.9 EL2 323.1 ALF 136.04

DIFFERENTIAL CORRECTIONS
 TOE 3.4999 TRA-1.5500 TC3 -.0368 BAU .1371
 ROE-2.7767 RRA 2.7931 RC3 -.0207 FAU .00539
 FDE 1.0779 FRA -.5914 FC3 -.0192 BSP 11296
 BOE 4.4676 BRA 3.1943 BC3 .0422 FSP -203

LAUNCH DATE MAR 5 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC
 RL 148.38 LAL .00 LOL 164.25 VL 27.586 GAL -7.23 AZL 69.54 HCA 189.68 SMA 129.12 ECC .19428 INC20.4633 V1 30.028
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.588 GAP 6.59 AZP 110.20 TAL 213.15 TAP 42.83 RCA 104.04 APO 154.21 V2 34.846
 RC 137.625 GL 58.44 GP -71.18 ZAL 110.39 ZAP 108.81 ETS 273.25 ZAE 97.24 ETE 196.47 ZAC 103.21 ETC 176.46 CLP-178.65

PLANETOCENTRIC CONIC
 C3 126.063 VHL 11.228 DLA 63.34 RAL 349.61 RAD 6570.3 VEL 15.729 PTH 2.79 VHP 13.882 DPA -62.98 RAP 54.14 ECC 3.0747
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.64 12 51 3 4825.41 -13.63 236.61 252.63 27.49 14 11 29 4225.4 -20.69 233.09
 149.36 22 43 48 3123.31 -13.62 95.12 252.61 27.49 23 35 51 2523.3 -20.68 91.60
 30.64 12 51 3 4825.41 -13.63 236.61 252.63 27.49 14 11 29 4225.4 -20.69 233.09
 149.36 22 43 48 3123.31 -13.62 95.12 252.61 27.49 23 35 51 2523.3 -20.68 91.60
 30.64 12 51 3 4825.41 -13.63 236.61 252.63 27.49 14 11 29 4225.4 -20.69 233.09
 149.36 22 43 48 3123.31 -13.62 95.12 252.61 27.49 23 35 51 2523.3 -20.68 91.60

MID-COURSE EXECUTION ACCURACY
 SGT 3589.3 SGR 1082.7 SG3 76.1
 RRT -.8896 RRF -.7987 RTF .9834
 SGB 3749.0 R23 -.2009 R13 -.9770
 SG1 3718.5 SG2 477.4 THA 164.72

ORBIT DETERMINATION ACCURACY
 ST 1722.1 SR 327.4 SS 599.7
 CRT -.4383 CRS .2933 CST -.9879
 LSA 1826.8 MSA 308.6 SSA 2.2
 EL1 1728.3 EL2 293.2 ALF 175.10

DIFFERENTIAL CORRECTIONS
 TOE 2.7909 TRA-2.8365 TC3 -.2972 BAU .5027
 ROE .0916 RRA .9496 RC3 .0257 FAU .01666
 FDE .8859 FRA -.6252 FC3 -.1144 BSP 11703
 BOE 2.7924 BRA 2.9913 BC3 .2983 FSP -249

LAUNCH DATE MAR 5 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 398.272

RL 148.38 LAL .00 LOL 164.25 VL 27.522 GAL -6.91 AZL 74.62 HCA 192.70 SMA 128.68 ECC .19387 INC15.3788 V1 30.028
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.550 GAP 6.76 AZP 105.02 TAL 211.46 TAP 44.16 RCA 103.73 APO 153.63 V2 34.855
 RC 139.923 GL 54.04 GP -64.86 ZAL 114.78 ZAP 114.46 ETS 287.82 ZAE 103.90 ETE 209.10 ZAC 108.82 ETC 190.15 CLP-167.02

PLANETOCENTRIC CONIC

C3 80.125 VHL 8.951 DLA 58.74 RAL 352.99 RAD 6569.6 VEL 14.194 PTH 2.59 VHP 11.087 DPA -54.83 RAP 50.51 ECC 2.3187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.12 13 18 6 4704.69 -18.56 228.95 251.24 33.19 14 36 30 4104.7 -25.19 224.54
 143.88 22 43 42 3051.04 -18.54 94.05 251.22 33.18 23 34 33 2451.0 -25.17 89.64
 36.12 13 18 6 4704.69 -18.56 228.95 251.24 33.19 14 36 30 4104.7 -25.19 224.54
 143.88 22 43 42 3051.04 -18.54 94.05 251.22 33.18 23 34 33 2451.0 -25.17 89.64
 36.12 13 18 6 4704.69 -18.56 228.95 251.24 33.19 14 36 30 4104.7 -25.19 224.54
 143.88 22 43 42 3051.04 -18.54 94.05 251.22 33.18 23 34 33 2451.0 -25.17 89.64

DIFFERENTIAL CORRECTIONS

TDE 2.1264 TRA-2.7449 TC3 -.6531 BAU .7014
 RDE .5440 RRA .2296 RC3 -.0458 FAU .02476
 FDE .8657 FRA -.6326 FC3 -.2675 BSP 12071
 BDE 2.1949 BRA 2.7545 BC3 .6547 FSP -304

MID-COURSE EXECUTION ACCURACY

SGT 3832.0 SGR 456.2 SG3 92.5
 RRT -.2226 RRF .0229 RTF .9647
 SGB 3859.1 R23 -.2468 R13 -.9640
 SG1 3833.4 SG2 444.6 THA 178.46

ORBIT DETERMINATION ACCURACY

ST 1698.7 SR 358.4 SS 576.4
 CRT .6368 CRS -.8026 CST -.9710
 LSA 1804.8 MSA 298.5 SSA 2.9
 EL1 1714.4 EL2 273.8 ALF 7.85

LAUNCH DATE MAR 5 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 404.037

RL 148.38 LAL .00 LOL 164.25 VL 27.459 GAL -6.60 AZL 77.76 HCA 195.78 SMA 128.25 ECC .19373 INC12.2359 V1 30.028
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.512 GAP 6.95 AZP 101.79 TAL 209.79 TAP 45.57 RCA 103.40 APO 153.10 V2 34.865
 RC 142.207 GL 49.57 GP -58.62 ZAL 118.25 ZAP 119.79 ETS 293.83 ZAE 109.10 ETE 212.68 ZAC 113.36 ETC 194.82 CLP-162.56

PLANETOCENTRIC CONIC

C3 57.684 VHL 7.595 DLA 54.78 RAL 357.09 RAD 6569.0 VEL 13.381 PTH 2.45 VHP 9.490 DPA -47.77 RAP 48.22 ECC 1.9493
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.93 13 47 30 4600.32 -21.90 221.39 250.62 38.43 15 4 10 4000.3 -28.07 216.18
 139.07 22 47 4 2999.27 -21.89 92.80 250.60 38.43 23 37 4 2399.3 -28.06 87.59
 40.93 13 47 30 4600.32 -21.90 221.39 250.62 38.43 15 4 10 4000.3 -28.07 216.18
 139.07 22 47 4 2999.27 -21.89 92.80 250.60 38.43 23 37 4 2399.3 -28.06 87.59
 40.93 13 47 30 4600.32 -21.90 221.39 250.62 38.43 15 4 10 4000.3 -28.07 216.18
 139.07 22 47 4 2999.27 -21.89 92.80 250.60 38.43 23 37 4 2399.3 -28.06 87.59

DIFFERENTIAL CORRECTIONS

TDE 1.7817 TRA-2.5520 TC3 -1.0401 BAU .8079
 RDE .5720 RRA .0150 RC3 -.1252 FAU .03132
 FDE .8632 FRA -.6186 FC3 -.4701 BSP 12421
 BDE 1.8712 BRA 2.5520 BC3 1.0476 FSP -360

MID-COURSE EXECUTION ACCURACY

SGT 3930.3 SGR 472.0 SG3 108.9
 RRT .4392 RRF .6738 RTF .9497
 SGB 3958.5 R23 .2803 R13 .9513
 SG1 3935.8 SG2 423.4 THA 3.05

ORBIT DETERMINATION ACCURACY

ST 1676.8 SR 431.6 SS 570.1
 CRT .7936 CRS -.9320 CST -.9601
 LSA 1799.6 MSA 290.5 SSA 3.8
 EL1 1712.3 EL2 257.2 ALF 11.82

LAUNCH DATE MAR 5 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 409.825

RL 148.38 LAL .00 LOL 164.25 VL 27.396 GAL -6.28 AZL 79.90 HCA 198.89 SMA 127.82 ECC .19378 INC10.1015 V1 30.028
 RP 108.66 LAP -3.26 LOP 366.86 VP 37.476 GAP 7.14 AZP 99.57 TAL 208.11 TAP 47.00 RCA 103.05 APO 152.59 V2 34.875
 RC 144.478 GL 45.41 GP -52.97 ZAL 120.84 ZAP 124.67 ETS 297.06 ZAE 113.26 ETE 213.17 ZAC 117.25 ETC 196.43 CLP-160.81

PLANETOCENTRIC CONIC

C3 44.973 VHL 6.706 DLA 51.41 RAL 1.13 RAD 6568.7 VEL 12.897 PTH 2.35 VHP 8.512 DPA -41.55 RAP 46.88 ECC 1.7401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.11 14 16 2 4510.97 -24.02 214.31 250.32 43.07 15 31 13 3911.0 -29.73 208.45
 134.89 22 50 46 2964.87 -24.01 91.72 250.30 43.06 23 40 11 2364.9 -29.72 85.85
 45.11 14 16 2 4510.97 -24.02 214.31 250.32 43.07 15 31 13 3911.0 -29.73 208.45
 134.89 22 50 46 2964.87 -24.01 91.72 250.30 43.06 23 40 11 2364.9 -29.72 85.85
 45.11 14 16 2 4510.97 -24.02 214.31 250.32 43.07 15 31 13 3911.0 -29.73 208.45
 134.89 22 50 46 2964.87 -24.01 91.72 250.30 43.06 23 40 11 2364.9 -29.72 85.85

DIFFERENTIAL CORRECTIONS

TDE 1.5724 TRA-2.3750 TC3 -1.4401 BAU .8732
 RDE .5284 RRA -.0497 RC3 -.1884 FAU .03648
 FDE .8515 FRA -.5817 FC3 -.7022 BSP 12664
 BDE 1.6588 BRA 2.3756 BC3 1.4524 FSP -407

MID-COURSE EXECUTION ACCURACY

SGT 4014.9 SGR 521.8 SG3 123.7
 RRT .6283 RRF .8306 RTF .9372
 SGB 4048.6 R23 .3030 R13 .9397
 SG1 4028.4 SG2 404.6 THA 4.72

ORBIT DETERMINATION ACCURACY

ST 1661.5 SR 452.0 SS 563.5
 CRT .8348 CRS -.9630 CST -.9521
 LSA 1789.4 MSA 283.6 SSA 4.8
 EL1 1704.7 EL2 242.6 ALF 13.06

LAUNCH DATE MAR 5 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 415.620

RL 148.38 LAL .00 LOL 164.25 VL 27.333 GAL -5.97 AZL 81.45 HCA 202.02 SMA 127.40 ECC .19400 INC 8.5531 V1 30.028
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.440 GAP 7.33 AZP 97.94 TAL 206.43 TAP 48.45 RCA 102.69 APO 152.12 V2 34.885
 RC 146.734 GL 41.68 GP -47.97 ZAL 122.64 ZAP 129.07 ETS 299.18 ZAE 116.60 ETE 212.39 ZAC 120.70 ETC 196.80 CLP-160.26

PLANETOCENTRIC CONIC

C3 36.975 VHL 6.081 DLA 48.56 RAL 4.97 RAD 6568.4 VEL 12.583 PTH 2.28 VHP 7.888 DPA -36.04 RAP 46.22 ECC 1.6085
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.75 14 43 5 4433.73 -25.29 207.86 250.32 47.06 15 56 58 3833.7 -30.59 201.48
 131.25 22 54 20 2943.30 -25.28 90.92 250.31 47.05 23 43 23 2343.3 -30.57 84.55
 48.75 14 43 5 4433.73 -25.29 207.86 250.32 47.06 15 56 58 3833.7 -30.59 201.48
 131.25 22 54 20 2943.30 -25.28 90.92 250.31 47.05 23 43 23 2343.3 -30.57 84.55
 48.75 14 43 5 4433.73 -25.29 207.86 250.32 47.06 15 56 58 3833.7 -30.59 201.48
 131.25 22 54 20 2943.30 -25.28 90.92 250.31 47.05 23 43 23 2343.3 -30.57 84.55

DIFFERENTIAL CORRECTIONS

TDE 1.4213 TRA-2.2233 TC3 -1.8515 BAU .9226
 RDE .4756 RRA -.0668 RC3 -.2351 FAU .04051
 FDE .8228 FRA -.5311 FC3 -.9485 BSP 13029
 BDE 1.4987 BRA 2.2243 BC3 1.8663 FSP -453

MID-COURSE EXECUTION ACCURACY

SGT 4108.7 SGR 540.0 SG3 136.7
 RRT .6964 RRF .8768 RTF .9274
 SGB 4144.0 R23 .3139 R13 .9301
 SG1 4126.0 SG2 385.9 THA 5.28

ORBIT DETERMINATION ACCURACY

ST 1643.0 SR 449.1 SS 551.0
 CRT .8508 CRS -.9754 CST -.9454
 LSA 1768.6 MSA 277.1 SSA 6.0
 EL1 1687.8 EL2 229.8 ALF 13.34

LAUNCH DATE MAR 5 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

RL 148.38 LAL .00 LOL 164.25 VL 27.271 GAL -5.64 AZL 82.63 HCA 205.17 SMA 126.99 ECC .19436 INC 7.3737 V1 30.028
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.405 GAP 7.53 AZP 96.68 TAL 204.73 TAP 49.90 RCA 102.31 APO 151.67 V2 34.897
 RC 148.977 GL 38.33 GP -43.59 ZAL 123.74 ZAP 132.99 ETS 300.74 ZAE 119.27 ETE 211.04 ZAC 123.84 ETC 196.59 CLP-160.31

PLANETOCENTRIC CONIC

C3 31.534 VHL 5.615 DLA 46.15 RAL 8.63 RAD 6568.3 VEL 12.366 PTH 2.23 VHP 7.481 DPA -31.16 RAP 46.09 ECC 1.5190
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.90 15 8 42 4366.05 -26.03 202.06 250.66 50.44 16 21 28 3766.0 -30.94 195.29
 128.10 22 57 54 2930.66 -26.02 90.42 250.65 50.44 23 46 44 2330.7 -30.93 83.66
 51.90 15 8 42 4366.05 -26.03 202.06 250.66 50.44 16 21 28 3766.0 -30.94 195.29
 128.10 22 57 54 2930.66 -26.02 90.42 250.65 50.44 23 46 44 2330.7 -30.93 83.66
 51.90 15 8 42 4366.05 -26.03 202.06 250.66 50.44 16 21 28 3766.0 -30.94 195.29
 128.10 22 57 54 2930.66 -26.02 90.42 250.65 50.44 23 46 44 2330.7 -30.93 83.66

DIFFERENTIAL CORRECTIONS

TDE 1.2961 TRA-2.0954 TC3-2.2812 BAU .9685
 RDE .4260 RRA -.0702 RC3 -.2713 FAU .04381
 FDE .7748 FRA -.4776 FC3-1.2029 BSP 13681
 BDE 1.3643 BRA 2.0966 BC3 2.2973 FSP -510

MID-COURSE EXECUTION ACCURACY

SGT 4223.3 SGR 540.7 SG3 148.3
 RRT .7331 RRF .8922 RTF .9213
 SGB 4257.8 R23 .3111 R13 .9239
 SG1 4242.0 SG2 366.1 THA 5.40

ORBIT DETERMINATION ACCURACY

ST 1616.1 SR 435.8 SS 529.5
 CRT .8578 CRS -.9817 CST -.9395
 LSA 1734.8 MSA 269.6 SSA 7.4
 EL1 1659.6 EL2 218.2 ALF 13.26

LAUNCH DATE MAR 5 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

RL 148.38 LAL .00 LOL 164.25 VL 27.209 GAL -5.31 AZL 83.56 HCA 208.32 SMA 126.58 ECC .19487 INC 6.4409 V1 30.028
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.371 GAP 7.73 AZP 95.68 TAL 203.02 TAP 51.35 RCA 101.91 APO 151.24 V2 34.908
 RC 151.204 GL 35.35 GP -39.79 ZAL 124.23 ZAP 136.48 ETS 301.98 ZAE 121.42 ETE 209.48 ZAC 126.75 ETC 196.12 CLP-160.67

PLANETOCENTRIC CONIC

C3 27.599 VHL 5.253 DLA 44.12 RAL 12.17 RAD 6568.1 VEL 12.206 PTH 2.19 VHP 7.215 DPA -26.82 RAP 46.35 ECC 1.4542
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.63 15 33 6 4305.95 -26.44 196.87 251.34 53.29 16 44 52 3706.0 -31.02 189.81
 125.37 23 1 44 2924.03 -26.42 90.17 251.33 53.29 23 50 28 2324.0 -31.01 83.11
 54.63 15 33 6 4305.95 -26.44 196.87 251.34 53.29 16 44 52 3706.0 -31.02 189.81
 125.37 23 1 44 2924.03 -26.42 90.17 251.33 53.29 23 50 28 2324.0 -31.01 83.11
 54.63 15 33 6 4305.95 -26.44 196.87 251.34 53.29 16 44 52 3706.0 -31.02 189.81
 125.37 23 1 44 2924.03 -26.42 90.17 251.33 53.29 23 50 28 2324.0 -31.01 83.11

DIFFERENTIAL CORRECTIONS

TDE 1.2375 TRA-1.9330 TC3-2.6583 BAU .9862
 RDE .3966 RRA -.0548 RC3 -.2789 FAU .04463
 FDE .7510 FRA -.3840 FC3-1.4000 BSP 13325
 BDE 1.2995 BRA 1.9338 BC3 2.6729 FSP -493

MID-COURSE EXECUTION ACCURACY

SGT 4271.6 SGR 529.0 SG3 154.0
 RRT .7286 RRF .8846 RTF .9101
 SGB 4304.3 R23 .3163 R13 .9126
 SG1 4289.1 SG2 360.9 THA 5.19

ORBIT DETERMINATION ACCURACY

ST 1613.9 SR 433.3 SS 522.9
 CRT .8672 CRS -.9878 CST -.9333
 LSA 1730.4 MSA 267.4 SSA 8.7
 EL1 1657.8 EL2 210.1 ALF 13.33

LAUNCH DATE MAR 5 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

RL 148.38 LAL .00 LOL 164.25 VL 27.148 GAL -4.96 AZL 84.32 HCA 211.49 SMA 126.18 ECC .19552 INC 5.6809 V1 30.028
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.337 GAP 7.93 AZP 94.85 TAL 201.30 TAP 52.79 RCA 101.51 APO 150.85 V2 34.920
 RC 153.416 GL 32.65 GP -36.48 ZAL 124.19 ZAP 139.58 ETS 302.98 ZAE 123.14 ETE 207.86 ZAC 129.49 ETC 195.54 CLP-161.23

PLANETOCENTRIC CONIC

C3 24.624 VHL 4.962 DLA 42.41 RAL 15.64 RAD 6568.0 VEL 12.083 PTH 2.16 VHP 7.046 DPA -22.95 RAP 46.93 ECC 1.4052
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.01 15 56 32 4252.01 -26.64 192.22 252.34 55.70 17 7 24 3652.0 -30.94 184.93
 122.99 23 6 0 2921.48 -26.63 90.11 252.33 55.69 23 54 42 2321.5 -30.93 82.82
 57.01 15 56 32 4252.01 -26.64 192.22 252.34 55.70 17 7 24 3652.0 -30.94 184.93
 122.99 23 6 0 2921.48 -26.63 90.11 252.33 55.69 23 54 42 2321.5 -30.93 82.82
 57.01 15 56 32 4252.01 -26.64 192.22 252.34 55.70 17 7 24 3652.0 -30.94 184.93
 122.99 23 6 0 2921.48 -26.63 90.11 252.33 55.69 23 54 42 2321.5 -30.93 82.82

DIFFERENTIAL CORRECTIONS

TDE 1.1696 TRA-1.8005 TC3-3.0704 BAU 1.0153
 RDE .3674 RRA -.0467 RC3 -.2895 FAU .04560
 FDE .7038 FRA -.3083 FC3-1.6033 BSP 13652
 BDE 1.2259 BRA 1.8011 BC3 3.0841 FSP -513

MID-COURSE EXECUTION ACCURACY

SGT 4363.1 SGR 517.5 SG3 159.9
 RRT .7325 RRF .8740 RTF .9045
 SGB 4393.7 R23 .3043 R13 .9067
 SG1 4379.7 SG2 350.9 THA 5.00

ORBIT DETERMINATION ACCURACY

ST 1595.5 SR 424.8 SS 503.3
 CRT .8736 CRS -.9916 CST -.9279
 LSA 1706.1 MSA 261.4 SSA 10.2
 EL1 1638.7 EL2 201.3 ALF 13.30

LAUNCH DATE MAR 5 1969

FLIGHT TIME 148.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

RL 148.38 LAL .00 LOL 164.25 VL 27.087 GAL -4.61 AZL 84.95 HCA 214.65 SMA 125.78 ECC .19633 INC 5.0464 V1 30.028
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.304 GAP 8.13 AZP 94.15 TAL 199.57 TAP 54.23 RCA 101.09 APO 150.48 V2 34.932
 RC 155.612 GL 30.20 GP -33.60 ZAL 123.68 ZAP 142.34 ETS 303.80 ZAE 124.53 ETE 206.28 ZAC 132.11 ETC 194.93 CLP-161.89

PLANETOCENTRIC CONIC

C3 22.292 VHL 4.721 DLA 40.95 RAL 19.10 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 6.943 DPA -19.49 RAP 47.76 ECC 1.3669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.08 16 19 14 4203.27 -26.73 188.04 253.65 57.74 17 29 17 3603.3 -30.78 180.59
 120.92 23 10 55 2921.66 -26.72 90.18 253.64 57.73 23 59 37 2321.7 -30.77 82.73
 59.08 16 19 14 4203.27 -26.73 188.04 253.65 57.74 17 29 17 3603.3 -30.78 180.59
 120.92 23 10 55 2921.66 -26.72 90.18 253.64 57.73 23 59 37 2321.7 -30.77 82.73
 59.08 16 19 14 4203.27 -26.73 188.04 253.65 57.74 17 29 17 3603.3 -30.78 180.59
 120.92 23 10 55 2921.66 -26.72 90.18 253.64 57.73 23 59 37 2321.7 -30.77 82.73

DIFFERENTIAL CORRECTIONS

TDE 1.1142 TRA-1.6696 TC3-3.4870 BAU 1.0429
 RDE .3445 RRA -.0391 RC3 -.2956 FAU .04599
 FDE .6545 FRA -.2331 FC3-1.7862 BSP 14022
 BDE 1.1662 BRA 1.6701 BC3 3.4995 FSP -532

MID-COURSE EXECUTION ACCURACY

SGT 4457.3 SGR 506.6 SG3 164.3
 RRT .7320 RRF .8579 RTF .9005
 SGB 4486.0 R23 .2858 R13 .9024
 SG1 4472.8 SG2 343.9 THA 4.78

ORBIT DETERMINATION ACCURACY

ST 1576.6 SR 418.5 SS 482.2
 CRT .8808 CRS -.9945 CST -.9228
 LSA 1681.7 MSA 254.7 SSA 11.9
 EL1 1619.7 EL2 192.9 ALF 13.35

LAUNCH DATE MAR 5 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 444.581

RL 148.38 LAL .00 LOL 164.25 VL 27.027 GAL -4.25 AZL 85.49 MCA 217.83 SMA 125.40 ECC .19729 INC 4.5055 V1 30.028
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.272 GAP 8.34 AZP 93.56 TAL 197.83 TAP 55.66 RCA 100.66 APO 150.14 V2 34.945
 RC 157.792 GL 27.94 GP -31.09 ZAL 122.75 ZAP 144.81 ETS 304.46 ZAE 125.66 ETE 204.77 ZAC 134.65 ETC 194.32 CLP-162.62

PLANETOCENTRIC CONIC

C3 20.414 VHL 4.518 DLA 39.71 RAL 22.59 RAD 6567.8 VEL 11.908 PTH 2.12 VHP 6.889 DPA -16.39 RAP 48.80 ECC 1.3360
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.91 16 41 24 4158.93 -26.74 184.28 255.26 59.48 17 50 43 3558.9 -30.58 176.69
 119.09 23 16 35 2923.64 -26.73 90.36 255.25 59.47 24 5 19 2323.6 -30.57 82.78
 60.91 16 41 24 4158.93 -26.74 184.28 255.26 59.48 17 50 43 3558.9 -30.58 176.69
 119.09 23 16 35 2923.64 -26.73 90.36 255.25 59.47 24 5 19 2323.6 -30.57 82.78
 60.91 16 41 24 4158.93 -26.74 184.28 255.26 59.48 17 50 43 3558.9 -30.58 176.69
 119.09 23 16 35 2923.64 -26.73 90.36 255.25 59.47 24 5 19 2323.6 -30.57 82.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0725 TRA-1.5327 TC3-3.8989 BAU 1.0672 SGT 4543.8 SGR 497.3 SG3 167.0 ST 1560.6 SR 415.7 SS 462.4
 RDE .3276 RRA -.0310 RC3 -.2972 FAU .04575 RRT .7260 RRF .8370 RTF .8968 CRT .8900 CRS -.9969 CST -.9179
 FDE .6082 FRA -.1557 FC3-1.9404 BSP 14311 SGB 4571.0 R23 .2650 R13 .8984 LSA 1661.5 MSA 247.6 SSA 13.7
 BDE 1.1214 BRA 1.5330 BC3 3.9103 FSP -540 SG1 4558.2 SG2 340.9 THA 4.57 EL1 1604.4 EL2 184.4 ALF 13.52

LAUNCH DATE MAR 5 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 450.355

RL 148.38 LAL .00 LOL 164.25 VL 26.967 GAL -3.88 AZL 85.96 MCA 221.00 SMA 125.02 ECC .19841 INC 4.0365 V1 30.028
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.241 GAP 8.55 AZP 93.05 TAL 196.08 TAP 57.09 RCA 100.21 APO 149.82 V2 34.957
 RC 159.953 GL 25.84 GP -28.89 ZAL 121.44 ZAP 147.03 ETS 304.95 ZAE 126.59 ETE 203.38 ZAC 137.12 ETC 193.73 CLP-163.38

PLANETOCENTRIC CONIC

C3 18.874 VHL 4.344 DLA 38.64 RAL 26.15 RAD 6567.8 VEL 11.843 PTH 2.10 VHP 6.872 DPA -13.58 RAP 50.02 ECC 1.3106
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.53 17 3 16 4118.39 -26.71 180.87 257.16 60.97 18 11 54 3518.4 -30.36 173.18
 117.47 23 23 5 2926.98 -26.70 90.62 257.15 60.96 24 11 52 2327.0 -30.35 82.93
 62.53 17 3 16 4118.39 -26.71 180.87 257.16 60.97 18 11 54 3518.4 -30.36 173.18
 117.47 23 23 5 2926.98 -26.70 90.62 257.15 60.96 24 11 52 2327.0 -30.35 82.93
 62.53 17 3 16 4118.39 -26.71 180.87 257.16 60.97 18 11 54 3518.4 -30.36 173.18
 117.47 23 23 5 2926.98 -26.70 90.62 257.15 60.96 24 11 52 2327.0 -30.35 82.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0386 TRA-1.3918 TC3-4.3091 BAU 1.0899 SGT 4627.9 SGR 490.3 SG3 168.5 ST 1544.6 SR 415.3 SS 442.7
 RDE .3147 RRA -.0234 RC3 -.2970 FAU .04512 RRT .7173 RRF .8132 RTF .8939 CRT .9006 CRS -.9982 CST -.9133
 FDE .5630 FRA -.0802 FC3-2.0696 BSP 14598 SGB 4653.8 R23 .2418 R13 .8953 LSA 1642.1 MSA 239.5 SSA 15.7
 BDE 1.0852 BRA 1.3920 BC3 4.3193 FSP -545 SG1 4641.3 SG2 340.7 THA 4.37 EL1 1589.8 EL2 175.3 ALF 13.78

LAUNCH DATE MAR 5 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 456.121

RL 148.38 LAL .00 LOL 164.25 VL 26.908 GAL -3.50 AZL 86.38 MCA 224.19 SMA 124.64 ECC .19970 INC 3.6235 V1 30.028
 RP 108.37 LAP -2.52 LOP 28.37 VP 37.210 GAP 8.77 AZP 92.60 TAL 194.32 TAP 58.51 RCA 99.75 APO 149.53 V2 34.970
 RC 162.097 GL 23.87 GP -26.97 ZAL 119.79 ZAP 149.03 ETS 305.29 ZAE 127.35 ETE 202.10 ZAC 139.56 ETC 193.17 CLP-164.17

PLANETOCENTRIC CONIC

C3 17.597 VHL 4.195 DLA 37.70 RAL 29.80 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 6.884 DPA -11.04 RAP 51.38 ECC 1.2896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.00 17 25 5 4080.95 -26.64 177.74 259.34 62.28 18 33 6 3480.9 -30.13 169.97
 116.00 23 30 22 2931.65 -26.63 90.96 259.34 62.26 24 19 14 2331.6 -30.12 83.19
 64.00 17 25 5 4080.95 -26.64 177.74 259.34 62.28 18 33 6 3480.9 -30.13 169.97
 116.00 23 30 22 2931.65 -26.63 90.96 259.34 62.26 24 19 14 2331.6 -30.12 83.19
 64.00 17 25 5 4080.95 -26.64 177.74 259.34 62.28 18 33 6 3480.9 -30.13 169.97
 116.00 23 30 22 2931.65 -26.63 90.96 259.34 62.26 24 19 14 2331.6 -30.12 83.19

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0103 TRA-1.2456 TC3-4.7151 BAU 1.1114 SGT 4709.2 SGR 485.8 SG3 169.1 ST 1527.9 SR 416.7 SS 423.0
 RDE .3050 RRA -.0159 RC3 -.2960 FAU .04418 RRT .7066 RRF .7876 RTF .8918 CRT .9126 CRS -.9981 CST -.9085
 FDE .5192 FRA -.0068 FC3-2.1738 BSP 14875 SGB 4734.2 R23 .2177 R13 .8930 LSA 1622.8 MSA 230.5 SSA 17.9
 BDE 1.0553 BRA 1.2457 BC3 4.7244 FSP -547 SG1 4721.8 SG2 342.8 THA 4.19 EL1 1575.1 EL2 165.3 ALF 14.14

LAUNCH DATE MAR 5 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 461.879

RL 148.38 LAL .00 LOL 164.25 VL 26.850 GAL -3.11 AZL 86.75 MCA 227.37 SMA 124.28 ECC .20117 INC 3.2549 V1 30.028
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.181 GAP 8.99 AZP 92.21 TAL 192.55 TAP 59.92 RCA 99.28 APO 149.28 V2 34.983
 RC 164.221 GL 21.99 GP -25.27 ZAL 117.82 ZAP 150.85 ETS 305.48 ZAE 127.99 ETE 200.93 ZAC 141.97 ETC 192.65 CLP-164.97

PLANETOCENTRIC CONIC

C3 16.531 VHL 4.066 DLA 36.86 RAL 33.56 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 6.918 DPA -8.73 RAP 52.88 ECC 1.2721
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.35 17 47 5 4046.09 -26.54 174.84 261.81 63.42 18 54 31 3446.1 -29.88 167.01
 114.65 23 38 24 2937.71 -26.52 91.40 261.81 63.41 24 27 22 2337.7 -29.86 83.56
 65.35 17 47 5 4046.09 -26.54 174.84 261.81 63.42 18 54 31 3446.1 -29.88 167.01
 114.65 23 38 24 2937.71 -26.52 91.40 261.81 63.41 24 27 22 2337.7 -29.86 83.56
 65.35 17 47 5 4046.09 -26.54 174.84 261.81 63.42 18 54 31 3446.1 -29.88 167.01
 114.65 23 38 24 2937.71 -26.52 91.40 261.81 63.41 24 27 22 2337.7 -29.86 83.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9873 TRA-1.0911 TC3-5.1074 BAU 1.1307 SGT 4783.1 SGR 483.4 SG3 168.7 ST 1511.1 SR 420.1 SS 404.5
 RDE .2980 RRA -.0081 RC3 -.2938 FAU .04294 RRT .6937 RRF .7610 RTF .8899 CRT .9258 CRS -.9961 CST -.9036
 FDE .4780 FRA .0656 FC3-2.2487 BSP 15085 SGB 4807.5 R23 .1949 R13 .8910 LSA 1604.5 MSA 220.6 SSA 20.3
 BDE 1.0313 BRA 1.0912 BC3 5.1159 FSP -542 SG1 4794.9 SG2 347.3 THA 4.03 EL1 1560.9 EL2 153.8 ALF 14.58

LAUNCH DATE MAR 5 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 467.626

RL 148.38 LAL .00 LOL 164.25 VL 26.792 GAL -2.71 AZL 87.08 MCA 230.56 SMA 123.92 ECC .20282 INC 2.9221 V1 30.028
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.151 GAP 9.21 AZP 91.86 TAL 190.78 TAP 61.34 RCA 98.78 APO 149.05 V2 34.996
 RC 166.326 GL 20.18 GP -23.76 ZAL 115.56 ZAP 152.51 ETS 305.52 ZAE 128.53 ETE 199.88 ZAC 144.36 ETC 192.15 CLP-165.76

PLANETOCENTRIC CONIC

C3 15.646 VHL 3.956 DLA 36.09 RAL 37.45 RAD 6567.6 VEL 11.706 PTH 2.06 VHP 6.971 DPA -6.61 RAP 54.48 ECC 1.2575
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.63 18 9 28 4013.25 -26.39 172.12 264.57 64.44 19 16 21 3413.3 -29.60 164.23
 113.37 23 47 4 2945.51 -26.38 91.94 264.56 64.43 24 36 9 2345.5 -29.59 84.06
 66.63 18 9 28 4013.25 -26.39 172.12 264.57 64.44 19 16 21 3413.3 -29.60 164.23
 113.37 23 47 4 2945.51 -26.38 91.94 264.56 64.43 24 36 9 2345.5 -29.59 84.06
 66.63 18 9 28 4013.25 -26.39 172.12 264.57 64.44 19 16 21 3413.3 -29.60 164.23
 113.37 23 47 4 2945.51 -26.38 91.94 264.56 64.43 24 36 9 2345.5 -29.59 84.06

DIFFERENTIAL CORRECTIONS

TOE .9626 TRA -.9328 TC3-5.4931 BAU 1.1507
 RDE .2925 RRA -.0006 RC3 -.2931 FAU .04165
 FDE .4359 FRA .1327 FC3-2.3045 BSP 15370
 BDE 1.0060 BRA .9328 BC3 5.5009 FSP -541

MID-COURSE EXECUTION ACCURACY

SGT 4860.5 SGR 483.0 SG3 168.0
 RRT .6816 RRF .7349 RTF .8896
 SGB 4884.4 R23 .1713 R13 .8904
 SG1 4871.7 SG2 352.6 THA 3.90

ORBIT DETERMINATION ACCURACY

ST 1487.5 SR 423.7 SS 384.1
 CRT .9389 CRS -.9912 CST -.8978
 LSA 1579.7 MSA 209.5 SSA 23.1
 EL1 1540.3 EL2 140.8 ALF 15.10

LAUNCH DATE MAR 5 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 473.361

RL 148.38 LAL .00 LOL 164.25 VL 26.735 GAL -2.30 AZL 87.38 MCA 233.75 SMA 123.56 ECC .20466 INC 2.6182 V1 30.028
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.123 GAP 9.44 AZP 91.55 TAL 188.99 TAP 62.75 RCA 98.28 APO 148.85 V2 35.010
 RC 168.410 GL 18.42 GP -22.43 ZAL 113.02 ZAP 154.03 ETS 305.41 ZAE 128.99 ETE 198.92 ZAC 146.74 ETC 191.68 CLP-166.56

PLANETOCENTRIC CONIC

C3 14.920 VHL 3.863 DLA 35.35 RAL 41.48 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 7.040 DPA -4.67 RAP 56.19 ECC 1.2455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.89 18 32 32 3981.66 -26.19 169.50 267.60 65.36 19 38 54 3381.7 -29.29 161.58
 112.11 0 0 5 2955.73 -26.18 92.66 267.59 65.35 0 49 20 2355.7 -29.28 84.74
 67.89 18 32 32 3981.66 -26.19 169.50 267.60 65.36 19 38 54 3381.7 -29.29 161.58
 112.11 0 0 5 2955.73 -26.18 92.66 267.59 65.35 0 49 20 2355.7 -29.28 84.74
 67.89 18 32 32 3981.66 -26.19 169.50 267.60 65.36 19 38 54 3381.7 -29.29 161.58
 112.11 0 0 5 2955.73 -26.18 92.66 267.59 65.35 0 49 20 2355.7 -29.28 84.74

DIFFERENTIAL CORRECTIONS

TOE .9365 TRA -.7665 TC3-5.8552 BAU 1.1693
 RDE .2884 RRA .0075 RC3 -.2920 FAU .04020
 FDE .3943 FRA .1979 FC3-2.3328 BSP 15625
 BDE .9799 BRA .7666 BC3 5.8625 FSP -537

MID-COURSE EXECUTION ACCURACY

SGT 4932.9 SGR 483.8 SG3 166.6
 RRT .6686 RRF .7092 RTF .8895
 SGB 4956.5 R23 .1497 R13 .8903
 SG1 4943.5 SG2 359.0 THA 3.77

ORBIT DETERMINATION ACCURACY

ST 1457.1 SR 427.8 SS 363.3
 CRT .9519 CRS -.9824 CST -.8902
 LSA 1548.6 MSA 197.7 SSA 26.3
 EL1 1513.3 EL2 126.2 ALF 15.73

LAUNCH DATE MAR 5 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 479.085

RL 148.38 LAL .00 LOL 164.25 VL 26.678 GAL -1.87 AZL 87.66 MCA 236.95 SMA 123.22 ECC .20671 INC 2.3379 V1 30.028
 RP 108.20 LAP -1.96 LOP 44.17 VP 37.095 GAP 9.68 AZP 91.28 TAL 187.21 TAP 64.15 RCA 97.75 APO 148.69 V2 35.023
 RC 170.474 GL 16.69 GP -21.24 ZAL 110.22 ZAP 155.43 ETS 305.14 ZAE 129.39 ETE 198.06 ZAC 149.12 ETC 191.23 CLP-167.36

PLANETOCENTRIC CONIC

C3 14.338 VHL 3.787 DLA 34.63 RAL 45.65 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 7.122 DPA -2.88 RAP 57.98 ECC 1.2360
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.18 18 56 35 3950.39 -25.94 166.90 270.90 66.21 20 2 26 3350.4 -28.92 158.95
 110.82 0 9 16 2969.30 -25.92 93.60 270.89 66.19 0 58 46 2369.3 -28.91 85.65
 69.18 18 56 35 3950.39 -25.94 166.90 270.90 66.21 20 2 26 3350.4 -28.92 158.95
 110.82 0 9 16 2969.30 -25.92 93.60 270.89 66.19 0 58 46 2369.3 -28.91 85.65
 69.18 18 56 35 3950.39 -25.94 166.90 270.90 66.21 20 2 26 3350.4 -28.92 158.95
 110.82 0 9 16 2969.30 -25.92 93.60 270.89 66.19 0 58 46 2369.3 -28.91 85.65

DIFFERENTIAL CORRECTIONS

TOE .9106 TRA -.5886 TC3-6.1779 BAU 1.1855
 RDE .2858 RRA .0167 RC3 -.2900 FAU .03859
 FDE .3553 FRA .2628 FC3-2.3302 BSP 15796
 BDE .9544 BRA .5889 BC3 6.1847 FSP -528

MID-COURSE EXECUTION ACCURACY

SGT 4995.9 SGR 486.0 SG3 164.8
 RRT .6549 RRF .6850 RTF .8894
 SGB 5019.5 R23 .1316 R13 .8900
 SG1 5006.1 SG2 366.6 THA 3.66

ORBIT DETERMINATION ACCURACY

ST 1422.6 SR 432.6 SS 344.2
 CRT .9649 CRS -.9678 CST -.8812
 LSA 1514.7 MSA 185.6 SSA 30.1
 EL1 1483.0 EL2 109.0 ALF 16.44

LAUNCH DATE MAR 5 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 484.795

RL 148.38 LAL .00 LOL 164.25 VL 26.623 GAL -1.43 AZL 87.92 MCA 240.14 SMA 122.88 ECC .20898 INC 2.0771 V1 30.028
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.067 GAP 9.93 AZP 91.03 TAL 185.42 TAP 65.56 RCA 97.20 APO 148.56 V2 35.036
 RC 172.518 GL 15.00 GP -20.18 ZAL 107.20 ZAP 156.72 ETS 304.72 ZAE 129.74 ETE 197.28 ZAC 151.50 ETC 190.80 CLP-168.15

PLANETOCENTRIC CONIC

C3 13.893 VHL 3.727 DLA 33.89 RAL 49.95 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 7.218 DPA -1.23 RAP 59.86 ECC 1.2286
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.55 19 21 55 3918.54 -25.60 164.25 274.46 66.99 20 27 14 3318.5 -28.49 156.29
 109.45 0 18 14 2987.27 -25.59 94.84 274.46 66.98 1 8 1 2387.3 -28.48 86.88
 70.55 19 21 55 3918.54 -25.60 164.25 274.46 66.99 20 27 14 3318.5 -28.49 156.29
 109.45 0 18 14 2987.27 -25.59 94.84 274.46 66.98 1 8 1 2387.3 -28.48 86.88
 110.00 0 55 27 2873.64 -28.39 87.22 275.69 70.11 1 43 21 2273.6 -30.83 78.87
 110.00 23 43 52 3080.18 -22.86 100.71 273.09 63.87 24 35 13 2480.2 -26.18 93.13

DIFFERENTIAL CORRECTIONS

TOE .8750 TRA -.4067 TC3-6.4682 BAU 1.2026
 RDE .2835 RRA .0260 RC3 -.2886 FAU .03701
 FDE .3133 FRA .3222 FC3-2.3060 BSP 16056
 BDE .9198 BRA .4076 BC3 6.4747 FSP -524

MID-COURSE EXECUTION ACCURACY

SGT 5062.3 SGR 488.4 SG3 162.6
 RRT .6421 RRF .6618 RTF .8907
 SGB 5085.8 R23 .1132 R13 .8912
 SG1 5072.0 SG2 373.7 THA 3.56

ORBIT DETERMINATION ACCURACY

ST 1371.6 SR 436.1 SS 322.0
 CRT .9762 CRS -.9450 CST -.8680
 LSA 1464.2 MSA 173.4 SSA 34.6
 EL1 1436.4 EL2 90.4 ALF 17.31

LAUNCH DATE MAR 5 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 490.490

RL 148.38 LAL .00 LOL 164.25 VL 26.568 GAL -.97 AZL 88.17 HCA 243.35 SMA 122.55 ECC .21147 INC 1.8323 V1 30.028
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.040 GAP 10.19 AZP 90.82 TAL 183.62 TAP 66.97 RCA 96.63 APO 148.46 V2 35.050
 RC 174.540 GL 13.33 GP -19.23 ZAL 103.96 ZAP 157.92 ETS 304.13 ZAE 130.05 ETE 196.57 ZAC 153.88 ETC 190.36 CLP-168.94

PLANETOCENTRIC CONIC

C3 13.582 VHL 3.685 DLA 33.12 RAL 54.36 RAD 6567.5 VEL 11.618 PTH 2.04 VHP 7.326 DPA .29 RAP 61.80 ECC 1.2235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.06 19 48 55 3884.75 -25.18 161.44 278.28 67.74 20 53 40 3284.8 -27.97 153.47
 107.94 0 26 26 3011.16 -25.16 96.50 278.27 67.72 1 16 38 2411.2 -27.96 88.53
 72.06 19 48 55 3884.75 -25.18 161.44 278.28 67.74 20 53 40 3284.8 -27.97 153.47
 107.94 0 26 26 3011.16 -25.16 96.50 278.27 67.72 1 16 38 2411.2 -27.96 88.53
 110.00 1 43 41 2774.00 -30.50 80.23 280.38 73.75 2 29 55 2174.0 -32.42 71.54
 110.00 23 30 51 3169.91 -20.07 106.18 275.67 61.73 24 23 41 2569.9 -23.68 98.90

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .8321 TRA -.2157 TC3-6.7064 BAU 1.2189 SGT 5125.3 SGR 491.1 SG3 160.3 ST 1307.6 SR 438.7 SS 299.6
 RDE .2818 RRA .0359 RC3 -.2871 FAU .03542 RRT .6301 RRF .6403 RTF .8928 CRT .9856 CRS -.9096 CST -.8503
 FDE .2706 FRA .3791 FC3-2.2576 BSP 16304 SGB 5148.7 R23 .0961 R13 .8932 LSA 1401.4 MSA 162.3 SSA 39.9
 BOE .8785 BRA .2186 BC3 6.7125 FSP -519 SG1 5134.7 SG2 380.7 THA 3.47 EL1 1377.4 EL2 70.4 ALF 18.35

LAUNCH DATE MAR 5 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 496.168

RL 148.38 LAL .00 LOL 164.25 VL 26.513 GAL -.50 AZL 88.40 HCA 246.55 SMA 122.22 ECC .21422 INC 1.6008 V1 30.028
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.014 GAP 10.46 AZP 90.64 TAL 181.82 TAP 68.37 RCA 96.04 APO 148.40 V2 35.063
 RC 176.542 GL 11.67 GP -18.38 ZAL 100.53 ZAP 159.03 ETS 303.38 ZAE 130.33 ETE 195.93 ZAC 156.27 ETC 189.91 CLP-169.72

PLANETOCENTRIC CONIC

C3 13.405 VHL 3.661 DLA 32.29 RAL 58.86 RAD 6567.5 VEL 11.610 PTH 2.03 VHP 7.445 DPA 1.70 RAP 63.81 ECC 1.2206
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.79 20 18 4 3847.21 -24.65 158.33 282.32 68.45 21 22 12 3247.2 -27.35 150.36
 106.21 0 33 13 3043.00 -24.64 98.71 282.31 68.44 1 23 56 2443.0 -27.34 90.74
 73.79 20 18 4 3847.21 -24.65 158.33 282.32 68.45 21 22 12 3247.2 -27.35 150.36
 106.21 0 33 13 3043.00 -24.64 98.71 282.31 68.44 1 23 56 2443.0 -27.34 90.74
 110.00 2 22 53 2704.23 -31.72 75.16 284.84 76.53 3 7 57 2104.2 -33.24 66.27
 110.00 23 27 34 3233.98 -17.96 109.95 278.88 60.41 24 21 28 2634.0 -21.76 102.88

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .7784 TRA -.0162 TC3-6.8876 BAU 1.2354 SGT 5188.7 SGR 494.0 SG3 157.9 ST 1227.5 SR 439.9 SS 277.7
 RDE .2806 RRA .0468 RC3 -.2855 FAU .03390 RRT .6190 RRF .6207 RTF .8954 CRT .9918 CRS -.8549 CST -.8252
 FDE .2267 FRA .4342 FC3-2.1891 BSP 16543 SGB 5212.2 R23 .0807 R13 .8958 LSA 1323.3 MSA 155.2 SSA 45.4
 + BOE .8274 BRA .0495 BC3 6.8935 FSP -513 SG1 5197.7 SG2 387.3 THA 3.39 EL1 1302.9 EL2 52.9 ALF 19.60

LAUNCH DATE MAR 5 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 501.832

RL 148.38 LAL .00 LOL 164.25 VL 26.460 GAL -.01 AZL 88.62 HCA 249.76 SMA 121.90 ECC .21723 INC 1.3800 V1 30.028
 RP 108.04 LAP -1.29 LOP 54.00 VP 36.988 GAP 10.74 AZP 90.48 TAL 180.02 TAP 69.78 RCA 95.42 APO 148.38 V2 35.076
 RC 178.523 GL 10.04 GP -17.60 ZAL 96.94 ZAP 160.06 ETS 302.46 ZAE 130.58 ETE 195.36 ZAC 158.66 ETC 189.44 CLP-170.49

PLANETOCENTRIC CONIC

C3 13.365 VHL 3.656 DLA 31.40 RAL 63.44 RAD 6567.5 VEL 11.608 PTH 2.03 VHP 7.576 DPA 3.00 RAP 65.89 ECC 1.2200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.82 20 50 9 3803.32 -24.02 154.72 286.57 69.14 21 53 32 3203.3 -26.64 146.77
 104.18 0 37 39 3085.60 -24.01 101.67 286.57 69.13 1 29 4 2485.6 -26.63 93.73
 75.82 20 50 9 3803.32 -24.02 154.72 286.57 69.14 21 53 32 3203.3 -26.64 146.77
 104.18 0 37 39 3085.60 -24.01 101.67 286.57 69.13 1 29 4 2485.6 -26.63 93.73
 110.00 2 59 8 2645.79 -32.56 70.81 289.34 78.97 3 43 14 2045.8 -33.74 61.78
 110.00 23 27 50 3291.12 -16.00 113.23 282.46 59.38 24 22 41 2691.1 -19.95 106.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .6573 TRA .2443 TC3-6.9694 BAU 1.2463 SGT 5218.2 SGR 479.6 SG3 157.4 ST 1050.0 SR 417.0 SS 223.7
 RDE .2650 RRA .0677 RC3 -.2804 FAU .03221 RRT .6108 RRF .5773 RTF .8823 CRT .9906 CRS -.5667 CST -.6103
 FDE .1068 FRA .5344 FC3-2.0866 BSP 17905 SGB 5240.2 R23 .0449 R13 .8825 LSA 1136.8 MSA 177.9 SSA 49.2
 BOE .7087 BRA .2535 BC3 6.9751 FSP -606 SG1 5226.5 SG2 379.1 THA 3.23 EL1 1128.6 EL2 53.1 ALF 21.53

LAUNCH DATE MAR 5 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 507.466

RL 148.38 LAL .00 LOL 164.25 VL 26.407 GAL .50 AZL 88.83 HCA 252.96 SMA 121.59 ECC .22053 INC 1.1680 V1 30.028
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.962 GAP 11.03 AZP 90.34 TAL 178.23 TAP 71.20 RCA 94.78 APO 148.40 V2 35.089
 RC 180.483 GL 8.43 GP -16.91 ZAL 93.26 ZAP 161.03 ETS 301.35 ZAE 130.81 ETE 194.83 ZAC 161.05 ETC 188.92 CLP-171.26

PLANETOCENTRIC CONIC

C3 13.470 VHL 3.670 DLA 30.44 RAL 68.01 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 7.719 DPA 4.20 RAP 68.01 ECC 1.2217
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.35 21 26 33 3747.65 -23.27 150.23 290.98 69.81 22 29 1 3147.7 -25.81 142.31
 101.65 0 37 45 3144.65 -23.26 105.80 290.97 69.80 1 30 9 2544.6 -25.80 97.88
 78.35 21 26 33 3747.65 -23.27 150.23 290.98 69.81 22 29 1 3147.7 -25.81 142.31
 101.65 0 37 45 3144.65 -23.26 105.80 290.97 69.80 1 30 9 2544.6 -25.80 97.88
 110.00 3 33 49 2593.68 -33.17 66.87 293.87 81.23 4 17 3 1993.7 -34.03 57.73
 110.00 23 29 39 3346.62 -14.05 116.35 286.27 58.51 24 25 26 2746.6 -18.12 109.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .6474 TRA .4225 TC3-6.9851 BAU 1.2588 SGT 5281.6 SGR 499.0 SG3 151.6 ST 1047.8 SR 440.2 SS 249.8
 RDE .2808 RRA .0724 RC3 -.2712 FAU .03036 RRT .5935 RRF .5861 RTF .8985 CRT .9822 CRS -.6696 CST -.7688
 FDE .1439 FRA .5461 FC3-1.9515 BSP 16805 SGB 5305.2 R23 .0619 R13 .8987 LSA 1149.9 MSA 171.5 SSA 49.2
 BOE .7057 BRA .4286 BC3 6.9904 FSP -488 SG1 5290.0 SG2 401.0 THA 3.23 EL1 1134.0 EL2 76.3 ALF 22.53

LAUNCH DATE MAR 5 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 513.081

RL 148.38 LAL .00 LOL 164.25 VL 26.354 GAL 1.03 AZL 89.04 HCA 256.18 SMA 121.28 ECC .22413 INC .9631 V1 30.028
 RP 107.96 LAP -.94 LOP 60.42 VP 36.937 GAP 11.34 AZP 90.23 TAL 176.44 TAP 72.61 RCA 94.10 APO 148.47 V2 35.102
 RC 182.422 GL 6.87 GP -16.28 ZAL 89.48 ZAP 161.92 ETS 300.06 ZAE 131.02 ETE 194.36 ZAC 163.45 ETC 188.32 CLP-172.03

PLANETOCENTRIC CONIC

C3 13.727 VHL 3.705 DLA 29.39 RAL 72.58 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 7.873 DPA 5.31 RAP 70.18 ECC 1.2259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.77 22 10 50 3668.59 -22.41 144.02 295.53 70.47 23 11 58 3068.6 -24.87 136.12
 98.23 0 29 55 3231.94 -22.40 111.96 295.53 70.46 1 23 47 2631.9 -24.86 104.06
 100.00 1 29 32 3041.00 -25.83 99.00 296.72 74.41 2 20 13 2441.0 -27.72 90.71
 100.00 23 53 53 3334.77 -19.07 118.17 294.12 66.53 24 49 28 2734.8 -22.08 110.67
 110.00 4 7 24 2546.45 -33.60 63.25 298.47 83.33 4 49 50 1946.5 -34.16 54.05
 110.00 23 32 31 3402.08 -12.06 119.41 290.28 57.77 24 29 13 2802.1 -16.23 112.78

DIFFERENTIAL CORRECTIONS

TDE .5587 TRA .6521 TC3-6.9251 BAU 1.2718
 RDE .2810 RRA .0856 RC3 -.2633 FAU .02879
 FDE .0988 FRA .5955 FC3-1.8160 BSP 17054
 BDE .6254 BRA .6577 BC3 6.9301 FSP -485

MID-COURSE EXECUTION ACCURACY

SGT 5330.8 SGR 500.0 SG3 148.4
 RRT .5825 RRF .5700 RTF .9020
 SGB 5354.2 R23 .0510 R13 .9022
 SG1 5338.8 SG2 405.8 THA 3.15

ORBIT DETERMINATION ACCURACY

ST 943.9 SR 436.9 SS 241.0
 CRT .9509 CRS -.5237 CST -.7426
 LSA 1047.2 MSA 202.9 SSA 45.9
 EL1 1032.8 EL2 123.6 ALF 24.13

LAUNCH DATE MAR 5 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 518.669

RL 148.38 LAL .00 LOL 164.25 VL 26.303 GAL 1.58 AZL 89.24 HCA 259.39 SMA 120.98 ECC .22807 INC .7636 V1 30.028
 RP 107.92 LAP -.75 LOP 63.64 VP 36.912 GAP 11.66 AZP 90.14 TAL 174.65 TAP 74.04 RCA 93.39 APO 148.58 V2 35.114
 RC 184.340 GL 5.35 GP -15.70 ZAL 85.66 ZAP 162.76 ETS 298.57 ZAE 131.22 ETE 193.93 ZAC 165.85 ETC 187.59 CLP-172.79

PLANETOCENTRIC CONIC

C3 14.147 VHL 3.761 DLA 28.28 RAL 77.09 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 8.040 DPA 6.33 RAP 72.40 ECC 1.2328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 49 6 3415.69 -22.36 125.43 300.52 72.16 24 46 2 2815.7 -24.59 117.47
 90.00 23 23 41 3498.11 -20.54 130.79 299.85 70.07 24 21 59 2898.1 -23.07 123.03
 100.00 2 23 57 2929.02 -27.64 91.17 302.06 78.14 3 12 46 2329.0 -29.00 82.63
 100.00 23 35 27 3460.01 -15.50 125.76 297.61 64.12 24 33 7 2860.0 -18.86 118.57
 110.00 4 39 58 2503.31 -33.90 59.92 303.12 85.28 5 21 41 1903.3 -34.18 50.68
 110.00 23 35 56 3458.49 -10.00 122.47 294.44 57.14 24 33 35 2858.5 -14.26 115.96

DIFFERENTIAL CORRECTIONS

TDE .4592 TRA .8949 TC3-6.7780 BAU 1.2829
 RDE .2818 RRA .0999 RC3 -.2530 FAU .02723
 FDE .0545 FRA .6457 FC3-1.6664 BSP 17222
 BDE .5388 BRA .9005 BC3 6.7827 FSP -476

MID-COURSE EXECUTION ACCURACY

SGT 5374.4 SGR 500.4 SG3 145.2
 RRT .5720 RRF .5555 RTF .9053
 SGB 5397.6 R23 .0422 R13 .9055
 SG1 5382.0 SG2 409.9 THA 3.07

ORBIT DETERMINATION ACCURACY

ST 853.5 SR 432.5 SS 241.2
 CRT .8813 CRS -.3545 CST -.7405
 LSA 953.3 MSA 251.5 SSA 40.8
 EL1 938.6 EL2 185.9 ALF 25.12

LAUNCH DATE MAR 5 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 524.228

RL 148.38 LAL .00 LOL 164.25 VL 26.252 GAL 2.15 AZL 89.43 HCA 262.61 SMA 120.69 ECC .23236 INC .5681 V1 30.028
 RP 107.88 LAP -.56 LOP 66.85 VP 36.887 GAP 12.00 AZP 90.07 TAL 172.86 TAP 75.47 RCA 92.65 APO 148.73 V2 35.126
 RC 186.236 GL 3.88 GP -15.18 ZAL 81.84 ZAP 163.53 ETS 296.87 ZAE 131.40 ETE 193.53 ZAC 168.25 ETC 186.63 CLP-173.55

PLANETOCENTRIC CONIC

C3 14.747 VHL 3.840 DLA 27.10 RAL 81.50 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 8.220 DPA 7.27 RAP 74.66 ECC 1.2427
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 10 35 3228.78 -25.69 112.75 306.51 77.66 2 4 24 2628.8 -27.13 104.38
 90.00 22 41 20 3703.43 -15.27 143.54 302.85 65.86 23 43 3 3103.4 -18.40 136.27
 100.00 3 7 18 2852.55 -28.59 85.69 307.12 80.88 3 54 50 2252.5 -29.56 77.02
 100.00 23 27 18 3554.89 -12.61 131.32 301.52 62.67 24 26 33 2954.9 -16.17 124.34
 110.00 5 11 27 2464.05 -34.07 56.86 307.80 87.08 5 52 31 1864.0 -34.10 47.62
 110.00 23 39 39 3516.16 -7.85 125.56 298.69 56.62 24 38 15 2916.2 -12.19 119.14

DIFFERENTIAL CORRECTIONS

TDE .3500 TRA 1.1529 TC3-6.5422 BAU 1.2907
 RDE .2835 RRA .1153 RC3 -.2392 FAU .02558
 FDE .0117 FRA .6970 FC3-1.5019 BSP 17318
 BDE .4504 BRA 1.1587 BC3 6.5465 FSP -465

MID-COURSE EXECUTION ACCURACY

SGT 5408.7 SGR 499.9 SG3 141.9
 RRT .5611 RRF .5421 RTF .9079
 SGB 5431.8 R23 .0358 R13 .9081
 SG1 5416.0 SG2 413.3 THA 2.99

ORBIT DETERMINATION ACCURACY

ST 794.7 SR 426.9 SS 250.4
 CRT .7525 CRS -.1851 CST -.7761
 LSA 882.1 MSA 311.7 SSA 35.6
 EL1 864.3 EL2 258.5 ALF 24.33

LAUNCH DATE MAR 5 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 529.752

RL 148.38 LAL .00 LOL 164.25 VL 26.202 GAL 2.75 AZL 89.62 HCA 265.83 SMA 120.40 ECC .23704 INC .3752 V1 30.028
 RP 107.85 LAP -.37 LOP 70.07 VP 36.863 GAP 12.36 AZP 90.03 TAL 171.09 TAP 76.91 RCA 91.86 APO 148.94 V2 35.138
 RC 188.109 GL 2.49 GP -14.71 ZAL 78.06 ZAP 164.25 ETS 294.96 ZAE 131.57 ETE 193.17 ZAC 170.65 ETC 185.25 CLP-174.30

PLANETOCENTRIC CONIC

C3 15.545 VHL 3.943 DLA 25.88 RAL 85.78 RAD 6567.6 VEL 11.702 PTH 2.06 VHP 8.414 DPA 8.12 RAP 76.96 ECC 1.2558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 57 52 3139.40 -26.84 106.46 311.69 80.61 2 50 12 2539.4 -27.86 97.95
 90.00 22 28 10 3816.42 -12.02 150.25 306.72 64.17 23 31 47 3216.4 -15.40 145.20
 100.00 3 45 44 2791.66 -29.17 81.25 312.07 83.15 4 32 16 2191.7 -29.81 72.51
 100.00 23 23 0 3639.39 -9.92 136.15 305.63 61.66 24 23 39 3039.4 -13.63 129.33
 110.00 5 41 44 2428.71 -34.16 54.11 312.49 88.71 6 22 13 1828.7 -33.96 44.87
 110.00 23 43 29 3575.11 -5.63 128.68 303.82 56.23 24 43 4 2975.1 -10.03 122.35

DIFFERENTIAL CORRECTIONS

TDE .2262 TRA 1.4201 TC3-6.2459 BAU 1.2988
 RDE .2856 RRA .1310 RC3 -.2242 FAU .02404
 FDE -.0316 FRA .7461 FC3-1.3390 BSP 17471
 BDE .3643 BRA 1.4262 BC3 6.2499 FSP -456

MID-COURSE EXECUTION ACCURACY

SGT 5443.0 SGR 498.2 SG3 138.5
 RRT .5504 RRF .5291 RTF .9111
 SGB 5465.7 R23 .0296 R13 .9113
 SG1 5449.9 SG2 415.5 THA 2.90

ORBIT DETERMINATION ACCURACY

ST 776.8 SR 419.9 SS 266.0
 CRT .5546 CRS -.0263 CST -.8388
 LSA 843.8 MSA 370.9 SSA 31.2
 EL1 818.4 EL2 331.6 ALF 20.13

LAUNCH DATE MAR 5 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 535.237

RL 148.38 LAL .00 LOL 164.25 VL 26.152 GAL 3.37 AZL 89.82 HCA 269.05 SMA 120.12 ECC .24215 INC .1837 V1 30.028
 RP 107.81 LAP -.18 LOP 73.29 VP 36.839 GAP 12.74 AZP 90.00 TAL 169.32 TAP 78.37 RCA 91.03 APO 149.21 V2 35.150
 RC 189.959 GL 1.18 GP -14.27 ZAL 74.35 ZAP 164.91 ETS 292.81 ZAE 131.72 ETE 192.83 ZAC 173.05 ETC 183.02 CLP-175.06

PLANETOCENTRIC CONIC

C3 16.561 VHL 4.070 OLA 24.62 RAL 89.90 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 8.624 DPA 8.90 RAP 79.29 ECC 1.2726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 37 56 3072.92 -27.49 101.71 316.70 82.91 3 29 9 2472.9 -28.18 93.11
 90.00 22 20 56 3911.70 -9.13 155.76 310.82 63.08 23 26 8 3311.7 -12.67 148.87
 100.00 4 20 50 2741.16 -29.52 77.54 316.95 85.07 5 6 31 2141.2 -29.89 68.76
 100.00 23 20 43 3718.70 -7.32 140.61 309.85 60.94 24 22 42 3118.7 -11.15 133.90
 110.00 6 10 42 2397.44 -34.18 51.67 317.18 90.16 6 50 39 1797.4 -33.78 42.44
 110.00 23 47 21 3635.18 -3.35 131.83 307.40 55.96 24 47 56 3035.2 -7.79 125.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE .0910 TRA 1.7003 TC3-5.8923 BAU 1.3054 SGT 5472.7 SGR 495.2 SG3 135.1 ST 813.2 SR 411.6 SS 287.0
 ROE .2883 RRA .1471 RC3 -.2077 FAU .02254 RRT .5398 RRF .5164 RTF .9145 CRT .3189 CRS .1092 CST -.9019
 FOE -.0747 FRA .7949 FC3-1.1783 BSP 17618 SGB 5495.1 R23 .0236 R13 .9146 LSA 863.9 MSA 407.5 SSA 27.5
 BOE .3023 BRA 1.7067 BC3 5.8960 FSP -448 SGI 5479.3 SG2 416.4 THA 2.81 EL1 826.7 EL2 383.7 ALF 11.73

LAUNCH DATE MAR 5 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 540.677

RL 148.38 LAL .00 LOL 164.25 VL 26.104 GAL 4.02 AZL 90.01 HCA 272.27 SMA 119.84 ECC .24772 INC .0000 V1 30.028
 RP 107.78 LAP .01 LOP 76.52 VP 36.815 GAP 13.15 AZP 90.00 TAL 167.57 TAP 79.84 RCA 90.16 APO 149.53 V2 35.161
 RC 191.786 GL -.04 GP -13.88 ZAL 70.74 ZAP 165.52 ETS 290.43 ZAE 131.86 ETE 192.52 ZAC 175.43 ETC 178.57 CLP-175.82

PLANETOCENTRIC CONIC

C3 17.823 VHL 4.222 OLA 23.35 RAL 93.82 RAD 6567.7 VEL 11.799 PTH 2.09 VHP 8.850 DPA 9.60 RAP 81.65 ECC 1.2933
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 39 3019.92 -27.87 97.88 321.60 84.79 4 3 59 2419.9 -28.30 89.24
 90.00 22 16 34 3998.62 -6.42 160.70 315.03 62.36 23 23 13 3398.6 -10.07 153.93
 100.00 4 53 13 2698.87 -29.73 74.41 321.76 86.70 5 38 12 2098.9 -29.87 65.61
 100.00 23 19 41 3794.91 -4.78 144.84 314.14 60.46 24 22 56 3194.9 -8.68 138.22
 110.00 6 38 13 2370.40 -34.16 49.55 321.85 91.40 7 17 43 1770.4 -33.59 40.36
 110.00 23 51 11 3696.14 -1.02 135.01 311.80 55.83 24 52 47 3096.1 -5.50 128.79

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.0539 TRA 1.9947 TC3-5.4943 BAU 1.3099 SGT 5497.4 SGR 491.1 SG3 131.8 ST 898.5 SR 402.8 SS 311.3
 ROE .2919 RRA .1637 RC3 -.1897 FAU .02105 RRT .5289 RRF .5043 RTF .9176 CRT .0993 CRS .2145 CST -.9469
 FOE -.1162 FRA .8442 FC3-1.0224 BSP 17743 SGB 5519.3 R23 .0191 R13 .9177 LSA 946.6 MSA 412.1 SSA 24.5
 BOE .2969 BRA 2.0014 BC3 5.4976 FSP -439 SGI 5503.5 SG2 416.4 THA 2.72 EL1 899.6 EL2 400.3 ALF 3.18

LAUNCH DATE MAR 5 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 546.066

RL 148.38 LAL .00 LOL 164.25 VL 26.056 GAL 4.71 AZL 90.20 HCA 275.50 SMA 119.57 ECC .25380 INC .1989 V1 30.028
 RP 107.75 LAP .20 LOP 79.74 VP 36.791 GAP 13.58 AZP 90.02 TAL 165.83 TAP 81.32 RCA 89.22 APO 149.92 V2 35.172
 RC 193.588 GL -1.18 GP -13.52 ZAL 67.26 ZAP 166.07 ETS 287.80 ZAE 131.99 ETE 192.24 ZAC 177.72 ETC 165.07 CLP-176.58

PLANETOCENTRIC CONIC

C3 19.363 VHL 4.400 OLA 22.08 RAL 97.55 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 9.095 DPA 10.23 RAP 84.03 ECC 1.3187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 46 5 2976.87 -28.10 94.75 326.43 86.34 4 35 41 2376.9 -28.31 86.09
 90.00 22 13 52 4080.56 -3.81 165.31 319.31 61.92 23 21 53 3480.6 -7.54 158.61
 100.00 5 23 12 2663.71 -29.84 71.81 326.52 88.07 6 7 36 2063.7 -29.78 63.00
 100.00 23 19 26 3868.96 -2.29 148.92 318.46 60.19 24 23 55 3269.0 -6.24 142.36
 110.00 7 4 12 2347.72 -34.11 47.78 326.50 92.45 7 43 20 1747.7 -33.39 38.62
 110.00 23 54 55 3757.71 1.34 138.22 316.20 55.84 24 57 33 3157.7 -3.16 132.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.2035 TRA 2.3071 TC3-5.0611 BAU 1.3109 SGT 5515.4 SGR 486.0 SG3 128.6 ST 1017.5 SR 393.7 SS 337.0
 ROE .2966 RRA .1807 RC3 -.1708 FAU .01956 RRT .5183 RRF .4931 RTF .9209 CRT -.0715 CRS .2932 CST -.9720
 FOE -.1558 FRA .8947 FC3 -.8744 BSP 17789 SGB 5536.8 R23 .0153 R13 .9210 LSA 1070.0 MSA 398.2 SSA 22.0
 BOE .3608 BRA 2.3141 BC3 5.0640 FSP -428 SGI 5521.2 SG2 415.2 THA 2.63 EL1 1018.0 EL2 392.5 ALF 178.14

LAUNCH DATE MAR 5 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 551.395

RL 148.38 LAL .00 LOL 164.25 VL 26.008 GAL 5.44 AZL 90.39 HCA 278.72 SMA 119.31 ECC .26045 INC .3932 V1 30.028
 RP 107.71 LAP .39 LOP 82.97 VP 36.768 GAP 14.05 AZP 90.06 TAL 164.11 TAP 82.83 RCA 88.23 APO 150.38 V2 35.182
 RC 195.366 GL -2.21 GP -13.18 ZAL 63.93 ZAP 166.55 ETS 284.92 ZAE 132.10 ETE 191.97 ZAC 178.94 ETC 80.84 CLP-177.35

PLANETOCENTRIC CONIC

C3 21.219 VHL 4.606 OLA 20.84 RAL 101.07 RAD 6567.9 VEL 11.941 PTH 2.13 VHP 9.360 DPA 10.78 RAP 86.43 ECC 1.3492
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 15 44 2942.07 -28.22 92.21 331.18 87.61 5 4 46 2342.1 -28.26 83.54
 90.00 22 12 15 4159.05 -1.28 169.70 323.62 61.71 23 21 34 3559.0 -5.06 163.05
 100.00 5 50 57 2635.03 -29.88 69.68 331.23 89.19 6 34 52 2035.0 -29.67 60.88
 100.00 23 19 43 3941.32 .17 152.89 322.81 60.11 24 25 25 3341.3 -3.81 146.36
 110.00 7 28 37 2329.47 -34.04 46.36 331.12 93.29 8 7 27 1729.5 -33.21 37.22
 110.00 0 2 29 3819.64 3.70 141.46 320.61 55.99 1 6 8 3219.6 -.79 135.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE -.3692 TRA 2.6325 TC3-4.6197 BAU 1.3112 SGT 5531.6 SGR 479.4 SG3 125.4 ST 1154.0 SR 383.9 SS 363.3
 ROE .3020 RRA .1976 RC3 -.1519 FAU .01814 RRT .5070 RRF .4815 RTF .9243 CRT -.2010 CRS .3559 CST -.9852
 FOE -.1952 FRA .9452 FC3 -.7402 BSP 17891 SGB 5552.4 R23 .0119 R13 .9244 LSA 1211.5 MSA 378.1 SSA 20.1
 BOE .4770 BRA 2.6399 BC3 4.6222 FSP -419 SGI 5537.0 SG2 412.9 THA 2.53 EL1 1156.9 EL2 375.1 ALF 175.73

LAUNCH DATE MAR 5 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 556.655

RL 148.38 LAL .00 LOL 164.25 VL 25.962 GAL 6.20 AZL 90.59 HCA 281.95 SMA 119.05 ECC .26772 INC .5911 V1 30.028
 RP 107.68 LAP .58 LOP 86.20 VP 36.744 GAP 14.55 AZP 90.12 TAL 162.41 TAP 84.36 RCA 87.18 APO 150.92 V2 35.192
 RC 197.118 GL -3.15 GP -12.88 ZAL 60.76 ZAP 166.98 ETS 281.79 ZAE 132.19 ETE 191.72 ZAC 177.05 ETC 30.78 CLP-178.12

PLANETOCENTRIC CONIC

C3 23.437 VHL 4.841 DLA 19.62 RAL 104.37 RAD 6568.0 VEL 12.034 PTH 2.15 VHP 9.648 DPA 11.27 RAP 88.84 ECC 1.3857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 42 57 2914.46 -28.29 90.19 335.86 88.62 5 31 31 2314.5 -28.18 81.53
 90.00 22 11 23 4234.86 1.16 173.92 327.94 61.70 23 21 57 3634.9 -2.63 167.30
 100.00 6 16 38 2612.35 -29.89 67.99 335.89 90.08 7 0 10 2012.3 -29.56 59.20
 100.00 23 20 22 4012.21 2.57 156.78 327.16 60.21 24 27 15 3412.2 -1.42 150.26
 110.00 7 51 28 2315.67 -33.98 45.29 335.72 93.92 8 30 3 1715.7 -33.07 36.17
 110.00 0 5 58 3881.65 6.05 144.72 325.00 56.29 1 10 40 3281.7 1.58 138.49

DIFFERENTIAL CORRECTIONS

TDE -.5412 TRA 2.9749 TC3-4.1733 BAU 1.3089
 RDE .3084 RRA .2143 RC3 -.1334 FAU .01678
 FDE -.2336 FRA .9965 FC3 -.6197 BSP 17985
 BDE .6229 BRA 2.9826 BC3 4.1774 FSP -411

MID-COURSE EXECUTION ACCURACY

SGT 5542.9 SGR 471.6 SG3 122.3
 RRT .4953 RRF .4699 RTF .9281
 SGB 5562.9 R23 .0089 R13 .9281
 SGI 5547.9 SG2 409.3 THA 2.43

ORBIT DETERMINATION ACCURACY

ST 1297.0 SR 373.9 SS 389.0
 CRT -.2944 CRS .4040 CST -.9919
 LSA 1358.4 MSA 357.6 SSA 18.5
 EL1 1302.0 EL2 355.9 ALF 174.76

LAUNCH DATE MAR 5 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 561.834

RL 148.38 LAL .00 LOL 164.25 VL 25.916 GAL 7.01 AZL 90.79 HCA 285.18 SMA 118.80 ECC .27568 INC .7938 V1 30.028
 RP 107.66 LAP .77 LOP 89.43 VP 36.721 GAP 15.09 AZP 90.21 TAL 160.73 TAP 85.92 RCA 86.05 APO 151.55 V2 35.201
 RC 198.846 GL -4.00 GP -12.60 ZAL 57.76 ZAP 167.35 ETS 278.40 ZAE 132.27 ETE 191.49 ZAC 174.73 ETC 21.85 CLP-178.90

PLANETOCENTRIC CONIC

C3 26.074 VHL 5.106 DLA 18.44 RAL 107.45 RAD 6568.1 VEL 12.143 PTH 2.18 VHP 9.961 DPA 11.68 RAP 91.26 ECC 1.4291
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 7 56 2893.31 -28.31 88.65 340.49 89.39 5 56 9 2293.3 -28.10 79.99
 90.00 22 11 1 4308.45 3.53 178.04 332.27 61.89 23 22 49 3708.5 -2.25 171.40
 100.00 6 40 21 2595.28 -29.88 66.72 340.49 90.75 7 23 36 1995.3 -29.46 57.94
 100.00 23 21 17 4081.72 4.91 160.61 331.51 60.48 24 29 18 3481.7 -.94 154.07
 110.00 8 12 44 2306.23 -33.94 44.56 340.28 94.35 8 51 10 1706.2 -32.96 35.45
 110.00 0 9 19 3943.53 8.38 148.00 329.38 56.74 1 15 2 3343.5 3.94 141.72

DIFFERENTIAL CORRECTIONS

TDE -.7175 TRA 3.3404 TC3-3.7314 BAU 1.3014
 RDE .3161 RRA .2309 RC3 -.1150 FAU .01537
 FDE -.2696 FRA 1.0508 FC3 -.5105 BSP 17966
 BDE .7841 BRA 3.3484 BC3 3.7332 FSP -399

MID-COURSE EXECUTION ACCURACY

SGT 5548.1 SGR 462.8 SG3 119.3
 RRT .4833 RRF .4589 RTF .9319
 SGB 5567.3 R23 .0070 R13 .9318
 SGI 5552.6 SG2 404.8 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 1437.4 SR 364.0 SS 413.5
 CRT -.3593 CRS .4385 CST -.9953
 LSA 1501.5 MSA 339.2 SSA 17.1
 EL1 1443.7 EL2 338.2 ALF 174.50

LAUNCH DATE MAR 5 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 566.919

RL 148.38 LAL .00 LOL 164.25 VL 25.871 GAL 7.87 AZL 91.00 HCA 288.41 SMA 118.55 ECC .28441 INC 1.0030 V1 30.028
 RP 107.63 LAP .95 LOP 92.66 VP 36.697 GAP 15.68 AZP 90.32 TAL 159.09 TAP 87.50 RCA 84.83 APO 152.27 V2 35.209
 RC 200.549 GL -4.76 GP -12.35 ZAL 54.95 ZAP 167.65 ETS 274.76 ZAE 132.34 ETE 191.26 ZAC 172.37 ETC 18.40 CLP-179.69

PLANETOCENTRIC CONIC

C3 29.198 VHL 5.404 DLA 17.32 RAL 110.33 RAD 6568.2 VEL 12.271 PTH 2.21 VHP 10.303 DPA 12.04 RAP 93.69 ECC 1.4805
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 30 51 2878.05 -28.32 87.53 345.06 89.95 6 18 50 2278.1 -28.02 78.88
 90.00 22 11 1 4380.04 5.82 182.06 336.59 62.24 23 24 1 3780.0 -2.06 175.40
 100.00 7 2 13 2583.45 -29.87 65.84 345.04 91.21 7 45 16 1983.5 -29.38 57.07
 100.00 23 22 21 4149.88 7.18 164.39 335.84 60.91 24 31 31 3549.9 3.25 157.81
 110.00 8 32 29 2301.04 -33.91 44.15 344.80 94.59 9 10 50 1701.0 -32.90 35.06
 110.00 0 12 30 4005.05 10.66 151.31 333.74 57.33 1 19 15 3405.1 6.27 144.96

DIFFERENTIAL CORRECTIONS

TDE -.9069 TRA 3.7213 TC3-3.3112 BAU 1.2931
 RDE .3245 RRA .2465 RC3 -.0980 FAU .01408
 FDE -.3064 FRA 1.1053 FC3 -.4176 BSP 18056
 BDE .9632 BRA 3.7294 BC3 3.3127 FSP -391

MID-COURSE EXECUTION ACCURACY

SGT 5551.0 SGR 452.3 SG3 116.4
 RRT .4699 RRF .4465 RTF .9359
 SGB 5569.4 R23 .0050 R13 .9359
 SGI 5555.1 SG2 399.0 THA 2.20

ORBIT DETERMINATION ACCURACY

ST 1572.8 SR 353.8 SS 437.3
 CRT -.4110 CRS .4688 CST -.9972
 LSA 1639.0 MSA 321.7 SSA 16.0
 EL1 1579.8 EL2 321.1 ALF 174.49

LAUNCH DATE MAR 5 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 571.891

RL 148.38 LAL .00 LOL 164.25 VL 25.827 GAL 8.79 AZL 91.22 HCA 291.65 SMA 118.31 ECC .29400 INC 1.2202 V1 30.028
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.674 GAP 16.31 AZP 90.45 TAL 157.48 TAP 89.13 RCA 83.53 APO 153.09 V2 35.217
 RC 202.227 GL -5.44 GP -12.11 ZAL 52.32 ZAP 167.87 ETS 270.89 ZAE 132.37 ETE 191.05 ZAC 170.01 ETC 16.57 CLP 179.50

PLANETOCENTRIC CONIC

C3 32.892 VHL 5.735 DLA 16.26 RAL 113.00 RAD 6568.3 VEL 12.420 PTH 2.24 VHP 10.676 DPA 12.32 RAP 96.11 ECC 1.5413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 53 2868.18 -28.32 86.81 349.57 90.32 6 39 41 2268.2 -27.97 78.16
 90.00 22 11 17 4449.76 8.01 186.01 340.90 62.75 23 25 27 3849.8 4.30 179.30
 100.00 7 22 20 2576.51 -29.86 65.33 349.54 91.48 8 5 16 1976.5 -29.33 56.56
 100.00 23 23 32 4216.66 9.38 168.14 340.17 61.49 24 33 48 3616.7 5.50 161.50
 110.00 8 50 44 2299.90 -33.90 44.06 349.29 94.64 9 29 4 1699.9 -32.89 34.97
 110.00 0 15 32 4066.04 12.88 154.64 338.09 58.06 1 23 18 3466.0 8.56 148.20

DIFFERENTIAL CORRECTIONS

TDE -1.1041 TRA 4.1251 TC3-2.9116 BAU 1.2808
 RDE .3341 RRA .2613 RC3 -.0821 FAU .01281
 FDE -.3424 FRA 1.1625 FC3 -.3372 BSP 18122
 BDE 1.1535 BRA 4.1333 BC3 2.9128 FSP -383

MID-COURSE EXECUTION ACCURACY

SGT 5549.5 SGR 440.7 SG3 113.6
 RRT .4553 RRF .4333 RTF .9401
 SGB 5567.0 R23 .0035 R13 .9401
 SGI 5553.2 SG2 392.1 THA 2.08

ORBIT DETERMINATION ACCURACY

ST 1698.6 SR 343.6 SS 460.2
 CRT -.4503 CRS .4932 CST -.9982
 LSA 1766.7 MSA 305.8 SSA 15.0
 EL1 1705.8 EL2 305.5 ALF 174.62

LAUNCH DATE MAR 5 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 576.732

RL 148.38 LAL .00 LOL 164.25 VL 25.784 GAL 9.77 AZL 91.45 MCA 294.88 SMA 118.08 ECC .30457 INC 1.4475 V1 30.028
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.651 GAP 17.01 AZP 90.61 TAL 155.92 TAP 90.80 RCA 82.11 APO 154.04 V2 35.225
 RC 203.880 GL -6.04 GP -11.90 ZAL 49.86 ZAP 168.03 ETS 266.81 ZAE 132.39 ETE 190.85 ZAC 167.66 ETC 15.44 CLP 178.67

PLANETOCENTRIC CONIC

C3 37.259 VHL 6.104 DLA 15.25 RAL 115.47 RAD 6568.5 VEL 12.595 PTH 2.28 VHP 11.086 DPA 12.55 RAP 98.53 ECC 1.6132
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 9 2863.23 -28.31 86.45 354.01 90.50 6 58 52 2263.2 -27.94 77.80
 90.00 22 11 45 4517.65 10.10 189.89 345.18 63.41 23 27 2 3917.7 6.45 183.12
 100.00 7 40 48 2574.09 -29.85 65.15 353.98 91.58 8 23 42 1974.1 -29.32 56.38
 100.00 23 24 46 4282.03 11.48 171.86 344.47 62.21 24 36 8 3682.0 7.67 165.14
 110.00 9 7 35 2302.57 -33.92 44.27 353.73 94.52 9 45 57 1702.6 -32.92 35.18
 110.00 0 18 25 4126.31 15.02 157.99 342.41 58.93 1 27 11 3526.3 10.79 151.44

DIFFERENTIAL CORRECTIONS

TDE-1.3114 TRA 4.5542 TC3-2.5347 BAU 1.2630
 RDE .3449 RRA .2748 RC3 -.0676 FAU .01156
 FDE -.3780 FRA 1.2226 FC3 -.2686 BSP 18181
 BDE 1.3560 BRA 4.5625 BC3 2.5356 FSP -375

MID-COURSE EXECUTION ACCURACY

SGT 5542.9 SGR .427.9 SG3 110.9
 RRT .4391 RRF .4191 RTF .9446
 SGB 5559.4 R23 .0026 R13 .9446
 SG1 5546.1 SG2 384.2 THA 1.95

ORBIT DETERMINATION ACCURACY

ST 1814.1 SR 333.5 SS 482.1
 CRT -.4820 CRS .5135 CST -.9989
 LSA 1884.1 MSA 291.2 SSA 14.1
 EL1 1821.4 EL2 291.0 ALF 174.80

LAUNCH DATE MAR 5 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 581.414

RL 148.38 LAL .00 LOL 164.25 VL 25.742 GAL 10.82 AZL 91.69 MCA 298.12 SMA 117.85 ECC .31624 INC 1.6871 V1 30.028
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.628 GAP 17.77 AZP 90.80 TAL 154.41 TAP 92.52 RCA 80.58 APO 155.12 V2 35.232
 RC 203.508 GL -6.56 GP -11.70 ZAL 47.59 ZAP 168.10 ETS 262.54 ZAE 132.38 ETE 190.64 ZAC 165.32 ETC 14.67 CLP 177.82

PLANETOCENTRIC CONIC

C3 42.426 VHL 6.513 DLA 14.32 RAL 117.75 RAD 6568.6 VEL 12.798 PTH 2.33 VHP 11.538 DPA 12.72 RAP 100.93 ECC 1.6982
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 28 45 2862.76 -28.31 86.41 358.39 90.51 7 16 28 2262.8 -27.94 77.77
 90.00 22 12 20 4583.72 12.09 193.73 349.44 64.20 23 28 43 3983.7 8.52 186.87
 100.00 7 57 43 2575.81 -29.86 65.27 358.36 91.51 8 40 39 1975.8 -29.33 56.51
 100.00 23 26 2 4345.90 13.48 175.54 348.74 63.06 24 38 28 3745.9 9.76 168.73
 110.00 9 23 4 2308.79 -33.95 44.75 358.12 94.24 10 1 32 1708.8 -32.99 35.65
 110.00 0 21 7 4185.68 17.08 161.36 346.71 59.93 1 30 53 3585.7 12.95 154.68

DIFFERENTIAL CORRECTIONS

TDE-1.5230 TRA 5.0146 TC3-2.1813 BAU 1.2376
 RDE .3570 RRA .2869 RC3 -.0542 FAU .01026
 FDE -.4122 FRA 1.2876 FC3 -.2094 BSP 18090
 BDE 1.5643 BRA 5.0228 BC3 2.1819 FSP -364

MID-COURSE EXECUTION ACCURACY

SGT 5531.2 SGR 414.1 SG3 108.3
 RRT .4216 RRF .4042 RTF .9491
 SGB 5546.7 R23 .0024 R13 .9491
 SG1 5533.9 SG2 375.3 THA 1.82

ORBIT DETERMINATION ACCURACY

ST 1915.0 SR 323.6 SS 502.9
 CRT -.5064 CRS .5295 CST -.9993
 LSA 1986.8 MSA 278.1 SSA 13.3
 EL1 1922.2 EL2 278.0 ALF 175.00

LAUNCH DATE MAR 5 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 585.906

RL 148.38 LAL .00 LOL 164.25 VL 25.701 GAL 11.96 AZL 91.94 MCA 301.35 SMA 117.63 ECC .32916 INC 1.9418 V1 30.028
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.605 GAP 18.60 AZP 91.01 TAL 152.95 TAP 94.31 RCA 78.91 APO 156.35 V2 35.238
 RC 207.111 GL -7.02 GP -11.52 ZAL 45.49 ZAP 168.09 ETS 258.14 ZAE 132.33 ETE 190.45 ZAC 163.01 ETC 14.12 CLP 176.95

PLANETOCENTRIC CONIC

C3 48.552 VHL 6.968 DLA 13.45 RAL 119.84 RAD 6568.8 VEL 13.035 PTH 2.38 VHP 12.037 DPA 12.83 RAP 103.32 ECC 1.7990
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 47 2866.34 -28.31 86.67 2.69 90.38 7 32 34 2266.3 -27.96 78.03
 90.00 22 13 0 4647.89 13.96 197.52 353.66 65.11 23 30 28 4047.9 10.49 190.56
 100.00 8 13 10 2581.31 -29.87 65.68 2.66 91.29 8 56 12 1981.3 -29.37 56.91
 100.00 23 27 18 4408.16 15.36 179.20 352.97 64.04 24 40 46 3808.2 11.75 172.28
 110.00 9 37 14 2318.27 -34.00 45.49 2.45 93.80 10 15 52 1718.3 -33.10 36.37
 110.00 0 23 40 4243.96 19.03 164.75 350.98 61.05 1 34 24 3644.0 15.03 157.92

DIFFERENTIAL CORRECTIONS

TDE-1.7513 TRA 5.5006 TC3-1.8611 BAU 1.2083
 RDE .3703 RRA .2967 RC3 -.0426 FAU .00903
 FDE -.4481 FRA 1.3553 FC3 -.1610 BSP 18131
 BDE 1.7900 BRA 5.5086 BC3 1.8616 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 5516.2 SGR 398.9 SG3 105.8
 RRT .4008 RRF .3860 RTF .9538
 SGB 5530.6 R23 .0023 R13 .9538
 SG1 5518.5 SG2 365.3 THA 1.67

ORBIT DETERMINATION ACCURACY

ST 2006.5 SR 313.6 SS 524.1
 CRT -.5296 CRS .5461 CST -.9995
 LSA 2080.6 MSA 265.1 SSA 12.6
 EL1 2013.5 EL2 265.1 ALF 175.18

LAUNCH DATE MAR 5 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 590.167

RL 148.38 LAL .00 LOL 164.25 VL 25.661 GAL 13.19 AZL 92.21 MCA 304.59 SMA 117.41 ECC .34349 INC 2.2146 V1 30.028
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.582 GAP 19.52 AZP 91.26 TAL 151.57 TAP 96.16 RCA 77.08 APO 157.74 V2 35.243
 RC 208.690 GL -7.42 GP -11.35 ZAL 43.57 ZAP 167.98 ETS 253.62 ZAE 132.24 ETE 190.25 ZAC 160.74 ETC 13.70 CLP 176.03

PLANETOCENTRIC CONIC

C3 55.838 VHL 7.473 DLA 12.65 RAL 121.76 RAD 6569.0 VEL 13.312 PTH 2.43 VHP 12.591 DPA 12.89 RAP 105.67 ECC 1.9190
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 21 2873.57 -28.32 87.20 6.90 90.12 7 47 15 2273.6 -28.00 78.55
 90.00 22 13 43 4710.06 15.71 201.24 357.83 66.13 23 32 13 4110.1 12.35 194.18
 100.00 8 27 13 2590.21 -29.88 66.34 6.88 90.95 9 10 23 1990.2 -29.43 57.57
 100.00 23 28 33 4468.65 17.13 182.82 357.16 65.12 24 43 1 3868.7 13.64 175.78
 110.00 9 50 9 2330.69 -34.05 46.46 6.70 93.23 10 29 0 1730.7 -33.23 37.31
 110.00 0 26 2 4300.94 20.87 168.15 355.21 62.29 1 37 43 3700.9 17.00 161.16

DIFFERENTIAL CORRECTIONS

TDE-1.9910 TRA 6.0214 TC3-1.5681 BAU 1.1708
 RDE .3849 RRA .3038 RC3 -.0324 FAU .00778
 FDE -.4846 FRA 1.4282 FC3 -.1206 BSP 18152
 BDE 2.0279 BRA 6.0291 BC3 1.5684 FSP -348

MID-COURSE EXECUTION ACCURACY

SGT 5496.5 SGR 382.7 SG3 103.3
 RRT .3768 RRF .3649 RTF .9585
 SGB 5509.8 R23 .0025 R13 .9585
 SG1 5498.4 SG2 354.4 THA 1.51

ORBIT DETERMINATION ACCURACY

ST 2085.8 SR 303.7 SS 545.5
 CRT -.5506 CRS .5617 CST -.9997
 LSA 2162.5 MSA 252.7 SSA 11.9
 EL1 2092.6 EL2 252.7 ALF 175.35

LAUNCH DATE MAR 5 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 594.146

RL 148.38 LAL .00 LOL 164.25 VL 25.622 GAL 14.53 AZL 92.51 MCA 307.83 SMA 117.21 ECC .35946 INC 2.5098 V1 30.028
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.559 GAP 20.55 AZP 91.54 TAL 150.28 TAP 98.10 RCA 75.08 APO 159.34 V2 35.248
 RC 210.244 GL -7.77 GP -11.19 ZAL 41.82 ZAP 167.78 ETS 249.05 ZAE 132.11 ETE 190.05 ZAC 158.50 ETC 13.38 CLP 175.08

PLANETOCENTRIC CONIC

C3 64.540 VHL 8.034 OLA 11.91 RAL 123.50 RAD 6569.2 VEL 13.634 PTH 2.49 VHP 13.209 DPA 12.90 RAP 107.98 ECC 2.0622
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 30 2884.03 -28.32 87.97 11.00 89.73 8 0 34 2284.0 -28.05 79.31
 90.00 22 14 28 4770.09 17.33 204.91 1.93 67.25 23 33 58 4170.1 14.10 197.72
 100.00 8 39 55 2602.14 -29.89 67.23 11.00 90.48 9 23 17 2002.1 -29.50 58.45
 100.00 23 29 45 4527.21 18.77 186.40 1.28 66.30 24 45 12 3927.2 15.41 179.22
 110.00 10 1 51 2345.73 -34.10 47.63 10.87 92.54 10 40 57 1745.7 -33.37 38.46
 110.00 0 28 13 4356.39 22.59 171.53 359.38 63.64 1 40 50 3756.4 18.86 164.38

DIFFERENTIAL CORRECTIONS

TDE-2.2442 TRA 6.5814 TC3-1.3019 BAU 1.1235
 RDE .4012 RRA .3078 RC3 -.0237 FAU .00649
 FDE -.5220 FRA 1.5072 FC3 -.0870 BSP 18150
 BDE 2.2798 BRA 6.5886 BC3 1.3021 FSP -341

MID-COURSE EXECUTION ACCURACY

SGT 5472.7 SGR 365.6 SG3 100.9
 RRT .3487 RRF .3400 RTF .9631
 SGB 5484.9 R23 .0030 R13 .9632
 SG1 5474.2 SG2 342.5 THA 1.34

ORBIT DETERMINATION ACCURACY

ST 2153.4 SR 294.0 SS 567.5
 CRT -.5704 CRS .5771 CST -.9998
 LSA 2233.2 MSA 240.7 SSA 11.3
 EL1 2160.0 EL2 240.7 ALF 175.49

LAUNCH DATE MAR 5 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 597.779

RL 148.38 LAL .00 LOL 164.25 VL 25.585 GAL 15.99 AZL 92.83 MCA 311.06 SMA 117.01 ECC .37730 INC 2.8321 V1 30.028
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.537 GAP 21.69 AZP 91.86 TAL 149.09 TAP 100.15 RCA 72.86 APO 161.16 V2 35.252
 RC 211.773 GL -8.07 GP -11.05 ZAL 40.24 ZAP 167.48 ETS 244.46 ZAE 131.93 ETE 189.84 ZAC 156.31 ETC 13.14 CLP 174.08

PLANETOCENTRIC CONIC

C3 74.984 VHL 8.659 OLA 11.25 RAL 125.07 RAD 6569.5 VEL 14.012 PTH 2.56 VHP 13.901 DPA 12.87 RAP 110.24 ECC 2.2340
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 24 17 2897.36 -28.31 88.94 14.99 89.25 8 12 34 2297.4 -28.11 80.28
 90.00 22 15 12 4827.75 18.81 208.49 5.94 68.43 23 35 40 4227.8 15.71 201.18
 100.00 8 51 17 2616.76 -29.89 68.32 15.00 89.91 9 34 54 2016.8 -29.59 59.53
 100.00 23 30 53 4583.59 20.28 189.91 5.31 67.55 24 47 16 3983.6 17.06 182.59
 110.00 10 12 22 2363.08 -34.14 48.98 14.93 91.74 10 51 45 1763.1 -33.53 39.79
 110.00 0 30 14 4410.04 24.17 174.90 3.47 65.06 1 43 44 3810.0 20.61 167.57

DIFFERENTIAL CORRECTIONS

TDE-2.5128 TRA 7.1857 TC3-1.0617 BAU 1.0645
 RDE .4194 RRA .3077 RC3 -.0164 FAU .00512
 FDE -.5610 FRA 1.5936 FC3 -.0591 BSP 18128
 BDE 2.5475 BRA 7.1923 BC3 1.0618 FSP -333

MID-COURSE EXECUTION ACCURACY

SGT 5444.8 SGR 347.7 SG3 98.7
 RRT .3154 RRF .3099 RTF .9677
 SGB 5455.9 R23 .0038 R13 .9677
 SG1 5445.9 SG2 329.9 THA 1.16

ORBIT DETERMINATION ACCURACY

ST 2209.6 SR 284.4 SS 590.6
 CRT -.5900 CRS .5929 CST -.9998
 LSA 2293.4 MSA 229.0 SSA 10.6
 EL1 2216.0 EL2 228.9 ALF 175.61

LAUNCH DATE MAR 5 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 600.982

RL 148.38 LAL .00 LOL 164.25 VL 25.549 GAL 17.61 AZL 93.19 MCA 314.30 SMA 116.82 ECC .39730 INC 3.1879 V1 30.028
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.515 GAP 22.98 AZP 92.23 TAL 148.02 TAP 102.31 RCA 70.41 APO 163.23 V2 35.255
 RC 213.276 GL -8.32 GP -10.91 ZAL 38.84 ZAP 167.06 ETS 239.89 ZAE 131.68 ETE 189.63 ZAC 154.17 ETC 12.95 CLP 173.01

PLANETOCENTRIC CONIC

C3 87.594 VHL 9.359 OLA 10.66 RAL 126.46 RAD 6569.7 VEL 14.455 PTH 2.63 VHP 14.681 DPA 12.79 RAP 112.44 ECC 2.4416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 34 43 2913.21 -28.29 90.10 18.83 88.66 8 23 16 2313.2 -28.17 81.44
 90.00 22 15 54 4882.80 20.15 211.97 9.83 69.67 23 37 17 4282.8 17.20 204.54
 100.00 9 1 22 2633.71 -29.88 69.58 18.86 89.24 9 45 16 2033.7 -29.67 60.78
 100.00 23 31 56 4637.53 21.64 193.33 9.23 68.86 24 49 13 4037.5 18.58 185.88
 110.00 10 21 41 2382.41 -34.17 50.49 18.86 90.85 11 1 23 1782.4 -33.68 41.28
 110.00 0 32 2 4461.60 25.61 178.21 7.45 66.55 1 46 24 3861.6 22.22 170.70

DIFFERENTIAL CORRECTIONS

TDE-2.7952 TRA 7.8433 TC3 -.8445 BAU .9890
 RDE .4397 RRA .3027 RC3 -.0104 FAU .00361
 FDE -.6012 FRA 1.6892 FC3 -.0357 BSP 18012
 BDE 2.8296 BRA 7.8491 BC3 .8445 FSP -324

MID-COURSE EXECUTION ACCURACY

SGT 5412.8 SGR 329.2 SG3 96.5
 RRT .2758 RRF .2737 RTF .9722
 SGB 5422.8 R23 .0049 R13 .9722
 SG1 5413.6 SG2 316.4 THA .96

ORBIT DETERMINATION ACCURACY

ST 2253.6 SR 275.1 SS 615.0
 CRT -.6093 CRS .6089 CST -.9999
 LSA 2342.1 MSA 217.6 SSA 10.0
 EL1 2259.9 EL2 217.5 ALF 175.71

LAUNCH DATE MAR 5 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 603.644

RL 148.38 LAL .00 LOL 164.25 VL 25.515 GAL 19.40 AZL 93.59 MCA 317.53 SMA 116.64 ECC .41981 INC 3.5854 V1 30.028
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.493 GAP 24.44 AZP 92.65 TAL 147.09 TAP 104.63 RCA 67.67 APO 165.61 V2 35.258
 RC 214.754 GL -8.53 GP -10.78 ZAL 37.61 ZAP 166.53 ETS 235.38 ZAE 131.35 ETE 189.40 ZAC 152.11 ETC 12.80 CLP 171.87

PLANETOCENTRIC CONIC

C3 102.927 VHL 10.145 OLA 10.14 RAL 127.68 RAD 6570.0 VEL 14.976 PTH 2.70 VHP 15.563 DPA 12.69 RAP 114.56 ECC 2.6939
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 43 47 2931.25 -28.25 91.42 22.50 88.00 8 32 38 2331.2 -28.23 82.75
 90.00 22 16 33 4934.91 21.34 215.33 13.56 70.94 23 38 48 4334.9 18.55 207.77
 100.00 9 10 9 2652.70 -29.86 70.99 22.55 88.50 9 54 22 2052.7 -29.75 62.19
 100.00 23 32 52 4688.69 22.86 196.65 12.99 70.20 24 51 1 4088.7 19.95 189.06
 110.00 10 29 48 2403.44 -34.18 52.13 22.62 89.88 11 9 52 1803.4 -33.82 42.91
 110.00 0 33 38 4510.72 26.90 181.44 11.29 68.07 1 48 49 3910.7 23.68 173.76

DIFFERENTIAL CORRECTIONS

TDE-3.1016 TRA 8.5535 TC3 -.6524 BAU .8978
 RDE .4625 RRA .2914 RC3 -.0058 FAU .00199
 FDE -.6451 FRA 1.7939 FC3 -.0168 BSP 17986
 BDE 3.1359 BRA 8.5584 BC3 .6525 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 5376.1 SGR 310.4 SG3 94.4
 RRT .2270 RRF .2281 RTF .9764
 SGB 5385.0 R23 .0060 R13 .9764
 SG1 5376.6 SG2 302.2 THA .75

ORBIT DETERMINATION ACCURACY

ST 2288.5 SR 266.0 SS 642.1
 CRT -.6303 CRS .6272 CST -.9999
 LSA 2382.8 MSA 206.0 SSA 9.5
 EL1 2294.7 EL2 205.9 ALF 175.78

LAUNCH DATE MAR 5 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 605.624

RL 148.38 LAL .00 LOL 164.25 VL 25.483 GAL 21.40 AZL 94.04 HCA 320.77 SMA 116.47 ECC .44523 INC 4.0352 V1 30.028
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.473 GAP 26.09 AZP 93.13 TAL 146.35 TAP 107.12 RCA 64.62 APO 168.33 V2 35.259
 RC 216.204 GL -8.70 GP -10.66 ZAL 36.57 ZAP 165.85 ETS 230.96 ZAE 130.93 ETE 189.16 ZAC 150.14 ETC 12.69 CLP 170.64

PLANETOCENTRIC CONIC

C3 121.716 VHL 11.032 DLA 9.70 RAL 128.71 RAD 6570.3 VEL 15.590 PTH 2.78 VHP 16.568 DPA 12.56 RAP 116.60 ECC 3.0031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 51 27 2951.21 -28.20 92.88 25.96 87.28 8 40 38 2351.2 -28.28 84.21
 90.00 22 17 7 4983.69 22.39 218.52 17.10 72.20 23 40 11 4383.7 19.75 210.84
 100.00 9 17 34 2673.45 -29.81 72.53 26.04 87.69 10 2 8 2073.5 -29.81 63.72
 100.00 23 33 41 4736.68 23.93 199.81 16.56 71.53 24 52 38 4136.7 21.19 192.09
 110.00 10 36 41 2425.90 -34.17 53.89 26.20 88.84 11 17 7 1825.9 -33.95 44.65
 110.00 0 35 0 4557.00 28.04 184.56 14.94 69.60 1 50 57 3957.0 25.00 176.71

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -3.4295 TRA 9.3293 TC3 -.4814 BAU .7834 SGT 5335.0 SGR 291.6 SG3 92.4 ST 2312.5 SR 257.3 SS 672.1
 RDE .4885 RRA .2726 RC3 -.0025 FAU .00013 RRT .1671 RRF .1713 RTF .9803 CRT -.6525 CRS .6471 CST -.9999
 FDE -.6922 FRA 1.9108 FC3 -.0009 BSP 17926 SGB 5342.9 R23 .0071 R13 .9803 LSA 2414.1 MSA 194.7 SSA 8.9
 BDE 3.4641 BRA 9.3333 BC3 .4814 FSP -311 SG1 5335.2 SG2 287.5 THA .52 EL1 2318.6 EL2 194.5 ALF 175.82

LAUNCH DATE MAR 5 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 606.733

RL 148.38 LAL .00 LOL 164.25 VL 25.453 GAL 23.65 AZL 94.55 HCA 324.00 SMA 116.32 ECC .47404 INC 4.5519 V1 30.028
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.453 GAP 27.99 AZP 93.69 TAL 145.84 TAP 109.84 RCA 61.18 APO 171.46 V2 35.260
 RC 217.629 GL -8.84 GP -10.54 ZAL 35.73 ZAP 165.03 ETS 226.65 ZAE 130.39 ETE 188.89 ZAC 148.27 ETC 12.62 CLP 169.30

PLANETOCENTRIC CONIC

C3 144.942 VHL 12.039 DLA 9.35 RAL 129.55 RAD 6570.6 VEL 16.318 PTH 2.86 VHP 17.719 DPA 12.41 RAP 118.51 ECC 3.3854
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 57 39 2972.87 -28.12 94.46 29.18 86.49 8 47 12 2372.9 -28.31 85.80
 90.00 22 17 35 5028.70 23.30 221.51 20.40 73.44 23 41 24 4428.7 20.81 213.72
 100.00 9 23 35 2695.75 -29.74 74.18 29.29 86.83 10 8 31 2095.8 -29.86 65.38
 100.00 23 34 21 4781.05 24.86 202.78 19.88 72.84 24 54 2 4181.1 22.27 194.94
 110.00 10 42 15 2449.57 -34.12 55.74 29.54 87.75 11 23 4 1849.6 -34.05 46.49
 110.00 0 36 6 4600.00 29.02 187.52 18.36 71.09 1 52 46 4000.0 26.17 179.50

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -3.7821 TRA10.1781 TC3 -.3305 BAU .6404 SGT 5288.8 SGR 273.3 SG3 90.4 ST 2325.8 SR 249.2 SS 705.7
 RDE .5183 RRA .2442 RC3 -.0003 FAU-.00206 RRT .0932 RRF .1003 RTF .9839 CRT -.6763 CRS .6690 CST -.9999
 FDE -.7436 FRA 2.0418 FC3 .0123 BSP 17856 SGB 5295.9 R23 .0083 R13 .9839 LSA 2436.3 MSA 183.4 SSA 8.3
 BDE 3.8175 BRA10.1810 BC3 .3305 FSP -305 SG1 5288.9 SG2 272.1 THA .28 EL1 2331.9 EL2 183.1 ALF 175.83

LAUNCH DATE MAR 5 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 606.720

RL 148.38 LAL .00 LOL 164.25 VL 25.427 GAL 26.20 AZL 95.16 HCA 327.23 SMA 116.18 ECC .50676 INC 5.1558 V1 30.028
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.435 GAP 30.17 AZP 94.34 TAL 145.59 TAP 112.82 RCA 57.31 APO 175.06 V2 35.261
 RC 219.026 GL -8.94 GP -10.42 ZAL 35.11 ZAP 164.03 ETS 222.47 ZAE 129.72 ETE 188.59 ZAC 146.54 ETC 12.58 CLP 167.82

PLANETOCENTRIC CONIC

C3 173.928 VHL 13.188 DLA 9.08 RAL 130.17 RAD 6570.9 VEL 17.183 PTH 2.94 VHP 19.045 DPA 12.27 RAP 120.29 ECC 3.8624
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 2 16 2996.10 -28.01 96.15 32.13 85.65 8 52 12 2396.1 -28.32 87.50
 90.00 22 17 55 5069.39 24.06 224.24 23.39 74.60 23 42 24 4469.4 21.72 216.36
 100.00 9 28 3 2719.45 -29.64 75.94 32.27 85.91 10 13 22 2119.4 -29.89 67.14
 100.00 23 34 50 4821.27 25.64 205.52 22.90 74.07 24 55 11 4221.3 23.20 197.56
 110.00 10 46 23 2474.29 -34.03 57.66 32.60 86.61 11 27 38 1874.3 -34.13 48.42
 110.00 0 36 54 4639.20 29.86 190.27 21.47 72.53 1 54 14 4039.2 27.18 182.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -4.1588 TRA11.1123 TC3 -.1973 BAU .4589 SGT 5238.0 SGR 256.5 SG3 88.7 ST 2327.2 SR 241.7 SS 743.5
 RDE .5530 RRA .2040 RC3 .0008 FAU-.00474 RRT .0026 RRF .0120 RTF .9872 CRT -.7014 CRS .6925 CST -.9999
 FDE -.7994 FRA 2.1903 FC3 .0236 BSP 17694 SGB 5244.3 R23 .0095 R13 .9872 LSA 2449.0 MSA 172.3 SSA 7.7
 BDE 4.1954 BRA11.1142 BC3 .1973 FSP -298 SG1 5238.0 SG2 256.5 THA .01 EL1 2333.4 EL2 171.9 ALF 175.81

LAUNCH DATE MAR 5 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 11 1969

HELIOCENTRIC CONIC

DISTANCE 605.254

RL 148.38 LAL .00 LOL 164.25 VL 25.404 GAL 29.12 AZL 95.88 HCA 330.46 SMA 116.07 ECC .54401 INC 5.8756 V1 30.028
 RP 107.47 LAP 2.89 LOP 134.84 VP 36.418 GAP 32.71 AZP 95.12 TAL 145.68 TAP 116.14 RCA 52.93 APO 179.21 V2 35.260
 RC 220.396 GL -9.01 GP -10.29 ZAL 34.73 ZAP 162.83 ETS 218.42 ZAE 128.87 ETE 188.26 ZAC 144.97 ETC 12.58 CLP 166.18

PLANETOCENTRIC CONIC

C3 210.469 VHL 14.508 DLA 8.91 RAL 130.55 RAD 6571.2 VEL 18.215 PTH 3.02 VHP 20.584 DPA 12.13 RAP 121.90 ECC 4.4638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 5 7 3020.85 -27.87 97.94 34.74 84.76 8 55 28 2420.9 -28.30 89.31
 90.00 22 18 4 5105.14 24.69 226.68 26.01 75.67 23 43 9 4505.1 22.48 218.70
 100.00 9 30 48 2744.50 -29.50 77.79 34.91 84.94 10 16 33 2144.5 -29.89 69.00
 100.00 23 35 4 4856.73 26.27 207.96 25.55 75.21 24 56 1 4256.7 23.99 199.90
 110.00 10 48 56 2499.98 -33.91 59.66 35.35 85.43 11 30 36 1900.0 -34.17 50.42
 110.00 0 37 21 4674.01 30.54 192.75 24.21 73.85 1 55 15 4074.0 28.03 184.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -4.5668 TRA12.1337 TC3 -.0824 BAU .2317 SGT 5180.5 SGR 241.9 SG3 87.0 ST 2317.4 SR 235.2 SS 786.9
 RDE .5938 RRA .1487 RC3 .0009 FAU-.00802 RRT -.1079 RRF -.0966 RTF .9900 CRT -.7284 CRS .7185 CST -.9999
 FDE -.8617 FRA 2.3577 FC3 .0330 BSP 17594 SGB 5186.2 R23 -.0105 R13 -.9900 LSA 2453.4 MSA 161.4 SSA 7.2
 BDE 4.6052 BRA12.1346 BC3 .0824 FSP -293 SG1 5180.6 SG2 240.5 THA 179.71 EL1 2323.8 EL2 160.7 ALF 175.75

LAUNCH DATE MAR 6 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 15 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.805 GAL -12.88 AZL 90.02 HCA 91.50 SMA 138.44 ECC .23378 INC .0185 V1 30.020
 RP 108.64 LAP -.02 LOP 256.75 VP 38.531 GAP -5.35 AZP 90.00 TAL 239.62 TAP 331.12 RCA 106.08 APO 170.81 V2 34.883
 RC 66.131 GL -.08 GP 24.01 ZAL 164.24 ZAP 47.26 ETS 338.42 ZAE 151.33 ETE 46.90 ZAC 117.47 ETC 150.40 CLP -42.01

PLANETOCENTRIC CONIC

C3 50.891 VHL 7.134 DLA .33 RAL .96 RAD 6568.9 VEL 13.124 PTH 2.40 VHP 5.583 DPA 33.00 RAP 22.82 ECC 1.8375
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 29 17 2456.94 -24.62 57.44 238.60 104.46 1 10 14 1856.9 -22.39 49.48
 90.00 12 32 9 5080.76 24.27 225.02 238.35 74.94 13 56 50 4480.8 21.96 217.10
 100.00 1 50 47 2194.07 -25.94 37.72 238.21 105.39 2 27 21 1594.1 -23.58 29.72
 100.00 13 53 20 4818.87 25.59 205.35 237.94 74.00 15 13 39 4218.9 23.15 197.40
 110.00 2 59 22 1979.36 -29.53 20.20 236.99 108.06 3 32 22 1379.4 -26.78 12.10
 110.00 15 1 14 4606.34 29.16 187.96 236.69 71.32 16 18 1 4006.3 26.34 179.92

DIFFERENTIAL CORRECTIONS

TDE -.1851 TRA -.4299 TC3 .1694 BAU .2056
 RDE -.3175 RRA .3896 RC3 .2502 FAU .07651
 FDE -.8220 FRA -.9569 FC3-1.3016 BSP 1243
 BDE .3675 BRA .5802 BC3 .3021 FSP -511

MID-COURSE EXECUTION ACCURACY

SGT 447.0 SGR 538.8 SG3 182.8
 RRT .0670 RRF -.6447 RTF -.0903
 SGB 700.1 R23 -.0436 R13 -.6450
 SG1 541.4 SG2 443.8 THA 80.20

ORBIT DETERMINATION ACCURACY

ST 181.3 SR 272.0 SS 338.4
 CRT .5731 CRS -.7659 CST -.9561
 LSA 439.5 MSA 166.3 SSA 23.0
 EL1 297.3 EL2 136.0 ALF 63.01

LAUNCH DATE MAR 6 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.845 GAL -12.75 AZL 90.21 HCA 94.67 SMA 138.78 ECC .23090 INC .2090 V1 30.020
 RP 108.67 LAP -.21 LCP 259.92 VP 38.552 GAP -4.64 AZP 89.98 TAL 240.18 TAP 334.85 RCA 106.74 APO 170.82 V2 34.873
 RC 68.274 GL -.83 GP 25.42 ZAL 164.52 ZAP 51.59 ETS 340.56 ZAE 151.50 ETE 52.94 ZAC 115.69 ETC 150.66 CLP -46.54

PLANETOCENTRIC CONIC

C3 49.935 VHL 7.066 DLA -.48 RAL .98 RAD 6568.8 VEL 13.088 PTH 2.39 VHP 5.317 DPA 33.72 RAP 20.76 ECC 1.8218
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 22 2427.14 -24.09 55.41 237.97 105.34 1 15 50 1827.1 -21.76 47.52
 90.00 12 26 15 5101.12 24.62 226.40 238.34 75.55 13 51 16 4501.1 22.39 218.44
 100.00 1 56 30 2165.48 -25.41 35.76 237.56 106.29 2 32 35 1565.5 -22.94 27.84
 100.00 13 47 49 4838.02 25.94 206.66 237.95 74.60 15 8 27 4238.0 23.58 198.66
 110.00 3 4 13 1953.47 -28.97 18.39 236.29 108.99 3 36 47 1353.5 -26.10 10.39
 110.00 14 56 34 4622.79 29.52 189.11 236.74 71.92 16 13 37 4022.8 26.76 181.01

DIFFERENTIAL CORRECTIONS

TDE -.1951 TRA -.4590 TC3 .1423 BAU .2119
 RDE -.2910 RRA .4064 RC3 .2837 FAU .08287
 FDE -.9349 FRA -1.0368 FC3-1.4367 BSP 1325
 BDE .3504 BRA .6131 BC3 .3173 FSP -570

MID-COURSE EXECUTION ACCURACY

SGT 451.7 SGR 570.1 SG3 200.9
 RRT -.0183 RRF -.6883 RTF .0234
 SGB 727.3 R23 .0104 R13 -.6883
 SG1 570.3 SG2 451.5 THA 92.22

ORBIT DETERMINATION ACCURACY

ST 193.8 SR 256.1 SS 368.1
 CRT .5314 CRS -.7466 CST -.9517
 LSA 457.3 MSA 170.1 SSA 23.1
 EL1 285.4 EL2 147.3 ALF 59.01

LAUNCH DATE MAR 6 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.874 GAL -12.63 AZL 90.40 HCA 97.84 SMA 139.03 ECC .22831 INC .3993 V1 30.020
 RP 108.70 LAP -.40 LOP 263.09 VP 38.565 GAP -3.96 AZP 89.95 TAL 240.58 TAP 338.42 RCA 107.28 APO 170.77 V2 34.862
 RC 70.456 GL -1.61 GP 26.85 ZAL 164.67 ZAP 56.07 ETS 342.74 ZAE 151.51 ETE 59.56 ZAC 113.74 ETC 151.08 CLP -51.27

PLANETOCENTRIC CONIC

C3 49.052 VHL 7.004 DLA -1.28 RAL 1.09 RAD 6568.8 VEL 13.054 PTH 2.38 VHP 5.089 DPA 34.37 RAP 18.47 ECC 1.8073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 41 43 2398.08 -23.56 53.45 237.48 106.18 1 21 41 1798.1 -21.11 45.63
 90.00 12 20 49 5121.27 24.95 227.78 238.45 76.16 13 46 11 4521.3 22.81 219.77
 100.00 2 2 28 2137.61 -24.87 33.87 237.05 107.15 2 38 6 1537.6 -22.28 26.02
 100.00 13 42 46 4856.98 26.28 207.97 238.07 75.22 15 3 43 4257.0 23.99 199.92
 110.00 3 9 21 1928.25 -28.40 16.65 235.75 109.88 3 41 29 1328.2 -25.42 8.74
 110.00 14 52 22 4639.10 29.86 190.26 236.90 72.52 16 9 41 4039.1 27.18 182.10

DIFFERENTIAL CORRECTIONS

TDE -.2094 TRA -.4935 TC3 .1084 BAU .2212
 RDE -.2614 RRA .4229 RC3 .3194 FAU .08918
 FDE -1.0541 FRA -1.1116 FC3-1.5739 BSP 1456
 BDE .3349 BRA .6499 BC3 .3373 FSP -634

MID-COURSE EXECUTION ACCURACY

SGT 464.2 SGR 604.7 SG3 219.1
 RRT -.1253 RRF -.7282 RTF .1531
 SGB 762.3 R23 .0577 R13 -.7286
 SG1 611.1 SG2 455.7 THA 102.55

ORBIT DETERMINATION ACCURACY

ST 209.8 SR 238.1 SS 398.8
 CRT .4826 CRS -.7188 CST -.9482
 LSA 479.0 MSA 172.7 SSA 23.1
 EL1 274.4 EL2 159.5 ALF 52.35

LAUNCH DATE MAR 6 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.893 GAL -12.50 AZL 90.59 HCA 101.01 SMA 139.18 ECC .22597 INC .5926 V1 30.020
 RP 108.73 LAP -.58 LOP 266.26 VP 38.570 GAP -3.32 AZP 89.89 TAL 240.83 TAP 341.84 RCA 107.73 APO 170.63 V2 34.853
 RC 72.672 GL -2.41 GP 28.30 ZAL 164.69 ZAP 60.66 ETS 344.99 ZAE 151.27 ETE 66.61 ZAC 111.67 ETC 151.65 CLP -56.18

PLANETOCENTRIC CONIC

C3 48.224 VHL 6.944 DLA -2.06 RAL 1.30 RAD 6568.8 VEL 13.023 PTH 2.38 VHP 4.898 DPA 34.94 RAP 16.00 ECC 1.7936
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 48 21 2369.53 -23.00 51.54 237.12 106.99 1 27 51 1769.5 -20.46 43.79
 90.00 12 15 50 5141.32 25.27 229.17 238.66 76.79 13 41 31 4541.3 23.20 221.11
 100.00 2 8 44 2110.23 -24.30 32.03 236.67 107.96 2 43 54 1510.2 -21.62 24.26
 100.00 13 38 8 4875.85 26.60 209.28 238.30 75.83 14 59 24 4275.8 24.39 201.18
 110.00 3 14 47 1903.49 -27.81 14.96 235.30 110.72 3 46 30 1303.5 -24.74 7.14
 110.00 14 48 35 4655.35 30.18 191.41 237.17 73.13 16 6 10 4055.4 27.58 183.19

DIFFERENTIAL CORRECTIONS

TDE -.2303 TRA -.5355 TC3 .0655 BAU .2334
 RDE -.2300 RRA .4371 RC3 .3560 FAU .09493
 FDE -1.1708 FRA -1.1722 FC3-1.7043 BSP 1608
 BDE .3254 BRA .6912 BC3 .3620 FSP -690

MID-COURSE EXECUTION ACCURACY

SGT 489.7 SGR 640.8 SG3 236.2
 RRT -.2501 RRF -.7628 RTF .2958
 SGB 806.5 R23 .0929 R13 -.7648
 SG1 664.3 SG2 457.4 THA 111.28

ORBIT DETERMINATION ACCURACY

ST 231.7 SR 219.0 SS 427.9
 CRT .4283 CRS -.6811 CST -.9468
 LSA 504.0 MSA 173.8 SSA 23.0
 EL1 269.7 EL2 170.0 ALF 41.23

LAUNCH DATE MAR 6 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 227.640

RL 148.42 LAL .00 LOL 165.25 VL 28.902 GAL -12.38 AZL 90.79 MCA 104.18 SMA 139.26 ECC .22382 INC .7898 V1 30.020
 RP 108.76 LAP -.77 LOP 269.43 VP 38.569 GAP -2.71 AZP 89.81 TAL 240.93 TAP 345.11 RCA 108.09 APO 170.43 V2 34.844
 RC 74.919 GL -3.24 GP 29.74 ZAL 164.58 ZAP 65.33 ETS 347.33 ZAE 150.73 ETE 73.93 ZAC 109.51 ETC 152.37 CLP -61.26

PLANETOCENTRIC CONIC

C3 47.440 VHL 6.888 DLA -2.84 RAL 1.59 RAD 6568.8 VEL 12.992 PTH 2.37 VHP 4.742 DPA 35.43 RAP 13.37 ECC 1.7807
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 55 19 2341.22 -22.43 49.67 236.87 107.76 1 34 20 1741.2 -19.79 41.99
 90.00 12 11 12 5161.42 25.58 230.56 238.97 77.42 13 37 13 4561.4 23.59 222.45
 100.00 2 15 20 2083.10 -23.72 30.22 236.40 108.74 2 50 3 1483.1 -20.94 22.53
 100.00 13 33 52 4894.78 26.91 210.61 238.63 76.46 14 55 27 4294.8 24.78 202.45
 110.00 3 20 32 1878.98 -27.21 13.31 234.99 111.54 3 51 51 1279.0 -24.04 5.58
 110.00 14 45 9 4671.66 30.50 192.58 237.54 73.76 16 3 1 4071.7 27.97 184.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2566 TRA -.5824 TC3 .0154 BAU .2498 SGT 530.4 SGR 678.8 SG3 252.3 ST 258.3 SR 198.5 SS 457.4
 RDE -.1958 RRA .4495 RC3 .3936 FAU .10018 RRT -.3759 RRF -.7932 RTF .4318 CRT .3595 CRS -.6271 CST -.9466
 FDE -1.2877 FRA -1.2213 FC3 -1.8282 BSP 1817 SGB 861.4 R23 .1158 R13 -.7978 LSA 533.6 MSA 173.6 SSA 22.9
 BDE .3228 BRA .7357 BC3 .3939 FSP -750 SG1 730.3 SG2 456.8 THA 118.23 EL1 275.7 EL2 173.6 ALF 26.73

LAUNCH DATE MAR 6 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 234.112

RL 148.42 LAL .00 LOL 165.25 VL 28.903 GAL -12.26 AZL 90.99 MCA 107.34 SMA 139.26 ECC .22183 INC .9926 V1 30.020
 RP 108.78 LAP -.95 LOP 272.59 VP 38.561 GAP -2.13 AZP 89.70 TAL 240.90 TAP 348.24 RCA 108.37 APO 170.16 V2 34.835
 RC 77.194 GL -4.11 GP 31.15 ZAL 164.35 ZAP 70.02 ETS 349.77 ZAE 149.86 ETE 81.26 ZAC 107.29 ETC 153.21 CLP -66.47

PLANETOCENTRIC CONIC

C3 46.691 VHL 6.833 DLA -3.62 RAL 1.97 RAD 6568.7 VEL 12.964 PTH 2.36 VHP 4.621 DPA 35.82 RAP 10.65 ECC 1.7684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 2 40 2312.89 -21.83 47.81 236.73 108.50 1 41 13 1712.9 -19.10 40.20
 90.00 12 6 52 5181.77 25.87 231.98 239.39 78.07 13 33 14 4581.8 23.97 223.82
 100.00 2 22 19 2055.96 -23.12 28.43 236.25 109.50 2 56 35 1456.0 -20.25 20.81
 100.00 13 29 54 4913.93 27.21 211.95 239.06 77.11 14 51 48 4313.9 25.16 203.75
 110.00 3 26 40 1854.48 -26.59 11.68 234.79 112.32 3 57 35 1254.5 -23.33 4.04
 110.00 14 42 2 4688.18 30.81 193.77 238.02 74.40 16 0 10 4088.2 28.36 185.42

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2905 TRA -.6355 TC3 -.0433 BAU .2699 SGT 589.9 SGR 715.3 SG3 265.7 ST 291.6 SR 178.3 SS 484.4
 RDE -.1608 RRA .4577 RC3 .4302 FAU .10434 RRT -.4912 RRF -.8182 RTF .5519 CRT .2758 CRS -.5544 CST -.9480
 FDE -1.3943 FRA -1.2481 FC3 -1.9347 BSP 2053 SGB 927.2 R23 .1319 R13 -.8257 LSA 566.9 MSA 172.0 SSA 22.8
 BDE .3321 BRA .7832 BC3 .4324 FSP -795 SG1 807.9 SG2 455.0 THA 124.22 EL1 297.7 EL2 167.9 ALF 14.16

LAUNCH DATE MAR 6 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 240.543

RL 148.42 LAL .00 LOL 165.25 VL 28.895 GAL -12.13 AZL 91.20 MCA 110.50 SMA 139.20 ECC .21996 INC 1.2023 V1 30.020
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.549 GAP -1.58 AZP 89.58 TAL 240.74 TAP 351.24 RCA 108.58 APO 169.82 V2 34.827
 RC 79.493 GL -5.02 GP 32.51 ZAL 163.99 ZAP 74.68 ETS 352.34 ZAE 148.65 ETE 88.39 ZAC 105.06 ETC 154.15 CLP -71.74

PLANETOCENTRIC CONIC

C3 45.970 VHL 6.780 DLA -4.41 RAL 2.43 RAD 6568.7 VEL 12.936 PTH 2.36 VHP 4.532 DPA 36.14 RAP 7.90 ECC 1.7566
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 10 27 2284.27 -21.20 45.94 236.70 109.23 1 48 31 1684.3 -18.38 38.40
 90.00 12 2 46 5202.59 26.16 233.43 239.91 78.75 13 29 29 4602.6 24.34 225.24
 100.00 2 29 43 2028.55 -22.48 26.64 236.20 110.23 3 3 31 1428.6 -19.53 19.10
 100.00 13 26 11 4933.54 27.50 213.34 239.60 77.79 14 48 25 4333.5 25.54 205.08
 110.00 3 33 12 1829.78 -25.94 10.05 234.70 113.09 4 3 42 1229.8 -22.59 2.50
 110.00 14 39 11 4705.08 31.11 194.99 238.60 75.06 15 57 36 4105.1 28.75 186.59

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3309 TRA -.6922 TC3 -.1088 BAU .2942 SGT 666.4 SGR 751.2 SG3 277.0 ST 330.5 SR 158.6 SS 511.2
 RDE -.1239 RRA .4627 RC3 .4661 FAU .10757 RRT -.5873 RRF -.8398 RTF .6479 CRT .1620 CRS -.4492 CST -.9501
 FDE -1.4946 FRA -1.2590 FC3 -2.0259 BSP 2343 SGB 1004.2 R23 .1426 R13 -.8494 LSA 605.5 MSA 169.2 SSA 22.7
 BDE .3534 BRA .8326 BC3 .4787 FSP -840 SG1 896.8 SG2 451.8 THA 129.23 EL1 331.7 EL2 155.9 ALF 5.71

LAUNCH DATE MAR 6 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 246.936

RL 148.42 LAL .00 LOL 165.25 VL 28.880 GAL -12.01 AZL 91.42 MCA 113.67 SMA 139.08 ECC .21819 INC 1.4208 V1 30.020
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.531 GAP -1.05 AZP 89.43 TAL 240.46 TAP 354.12 RCA 108.73 APO 169.42 V2 34.820
 RC 81.813 GL -5.98 GP 33.81 ZAL 163.51 ZAP 79.26 ETS 355.01 ZAE 147.14 ETE 95.13 ZAC 102.88 ETC 155.14 CLP -77.05

PLANETOCENTRIC CONIC

C3 45.276 VHL 6.729 DLA -5.22 RAL 2.98 RAD 6568.7 VEL 12.909 PTH 2.35 VHP 4.475 DPA 36.38 RAP 5.17 ECC 1.7451
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 18 44 2255.06 -20.53 44.06 236.77 109.94 1 56 19 1655.1 -17.63 36.59
 90.00 11 58 50 5224.15 26.44 234.95 240.53 79.46 13 25 54 4624.2 24.71 226.71
 100.00 2 37 37 2000.60 -21.81 24.84 236.26 110.96 3 10 57 1400.6 -18.77 17.37
 100.00 13 22 38 4953.84 27.78 214.78 240.24 78.50 14 45 12 4353.8 25.91 206.48
 110.00 3 40 13 1804.62 -25.26 8.42 234.71 113.84 4 10 17 1204.6 -21.82 .95
 110.00 14 36 32 4722.59 31.41 196.27 239.28 75.76 15 55 14 4122.6 29.14 187.80

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3792 TRA -.7524 TC3 -.1813 BAU .3214 SGT 760.0 SGR 782.7 SG3 284.7 ST 376.2 SR 141.3 SS 535.0
 RDE -.0872 RRA .4619 RC3 .4990 FAU .10937 RRT -.6623 RRF -.8571 RTF .7206 CRT .0180 CRS -.3082 CST -.9529
 FDE -1.5781 FRA -1.2443 FC3 -2.0913 BSP 2653 SGB 1091.0 R23 .1517 R13 -.8680 LSA 648.0 MSA 165.5 SSA 22.5
 BDE .3891 BRA .8829 BC3 .5309 FSP -868 SG1 994.7 SG2 448.1 THA 133.73 EL1 376.3 EL2 141.2 ALF .45

LAUNCH DATE MAR 6 1969

FLIGHT TIME 86.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 253.290

RL 148.42 LAL .00 LOL 165.25 VL 28.859 GAL -11.88 AZL 91.65 HCA 116.83 SMA 138.90 ECC .21651 INC 1.6501 V1 30.020
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.509 GAP -.55 AZP 89.26 TAL 240.06 TAP 356.89 RCA 108.82 APO 168.97 V2 34.813
 RC 84.153 GL -6.99 GP 35.05 ZAL 162.90 ZAP 83.71 ETS 357.78 ZAE 145.36 ETE 101.33 ZAC 100.77 ETC 156.17 CLP -82.32

PLANETOCENTRIC CONIC

C3 44.608 VHL 6.679 DLA -6.06 RAL 3.61 RAD 6568.7 VEL 12.883 PTH 2.35 VHP 4.449 DPA 36.59 RAP 2.53 ECC 1.7341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 27 37 2224.94 -19.82 42.14 236.95 110.65 2 4 42 1624.9 -16.83 34.74
 90.00 11 54 59 5246.80 26.71 236.55 241.26 80.22 13 22 26 4646.8 25.08 228.26
 100.00 2 46 5 1971.81 -21.10 23.00 236.42 111.68 3 18 57 1371.8 -17.97 15.60
 100.00 13 19 12 4975.16 28.06 216.30 240.99 79.25 14 42 7 4375.2 26.29 207.95
 110.00 3 47 45 1778.75 -24.53 6.75 234.83 114.58 4 17 24 1178.7 -21.01 359.38
 110.00 14 34 1 4740.99 31.71 197.62 240.08 76.51 15 53 2 4141.0 29.53 189.09

DIFFERENTIAL CORRECTIONS

TDE -.4346 TRA -.8138 TC3 -.2588 BAU .3516
 RDE -.0494 RRA .4570 RC3 .5297 FAU .11003
 FDE -1.6505 FRA -1.2132 FC3 -2.1355 BSP 3008
 BDE .4374 BRA .9333 BC3 .5896 FSP -893

MID-COURSE EXECUTION ACCURACY

SGT 866.8 SGR 811.1 SG3 289.6
 RRT -.7192 RRF -.8720 RTF .7739
 SGB 1187.1 R23 .1592 R13 -.8830
 SG1 1101.1 SG2 443.7 THA 137.64

ORBIT DETERMINATION ACCURACY

ST 428.3 SR 127.4 SS 558.4
 CRT -.1710 CRS -.1137 CST -.9560
 LSA 696.5 MSA 160.9 SSA 22.3
 EL1 428.9 EL2 125.4 ALF 176.82

LAUNCH DATE MAR 6 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 259.608

RL 148.42 LAL .00 LOL 165.25 VL 28.832 GAL -11.75 AZL 91.89 HCA 119.99 SMA 138.67 ECC .21489 INC 1.8924 V1 30.020
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.483 GAP -.08 AZP 89.05 TAL 239.57 TAP 359.55 RCA 108.87 APO 168.47 V2 34.807
 RC 86.508 GL -8.08 GP 36.23 ZAL 162.17 ZAP 87.98 ETS .64 ZAE 143.38 ETE 106.94 ZAC 98.78 ETC 157.19 CLP -87.50

PLANETOCENTRIC CONIC

C3 43.967 VHL 6.631 DLA -6.94 RAL 4.33 RAD 6568.7 VEL 12.858 PTH 2.34 VHP 4.450 DPA 36.78 RAP .02 ECC 1.7236
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 37 12 2193.56 -19.05 40.15 237.24 111.35 2 13 46 1593.6 -15.98 32.82
 90.00 11 51 8 5270.90 26.97 238.27 242.11 81.04 13 18 59 4670.9 25.46 229.93
 100.00 2 55 14 1941.84 -20.34 21.10 236.69 112.39 3 27 36 1341.8 -17.12 13.78
 100.00 13 15 47 4997.85 28.34 217.93 241.85 80.07 14 39 5 4397.9 26.67 209.52
 110.00 3 55 54 1751.89 -23.76 5.05 235.06 115.33 4 25 6 1151.9 -20.15 357.77
 110.00 14 31 36 4760.57 32.01 199.07 241.00 77.32 15 50 57 4160.6 29.94 190.47

DIFFERENTIAL CORRECTIONS

TDE -.4977 TRA -.8753 TC3 -.3407 BAU .3834
 RDE -.0121 RRA .4460 RC3 .5563 FAU .10928
 FDE -1.7051 FRA -1.1597 FC3 -2.1518 BSP 3375
 BDE .4978 BRA .9823 BC3 .6523 FSP -902

MID-COURSE EXECUTION ACCURACY

SGT 984.7 SGR 833.7 SG3 290.9
 RRT -.7609 RRF -.8842 RTF .8122
 SGB 1290.2 R23 .1671 R13 -.8945
 SG1 1213.2 SG2 439.1 THA 141.20

ORBIT DETERMINATION ACCURACY

ST 487.2 SR 119.0 SS 579.3
 CRT -.3868 CRS .1214 CST -.9591
 LSA 749.9 MSA 155.7 SSA 22.0
 EL1 489.5 EL2 109.2 ALF 174.32

LAUNCH DATE MAR 6 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 265.890

RL 148.42 LAL .00 LOL 165.25 VL 28.800 GAL -11.61 AZL 92.15 HCA 123.14 SMA 138.40 ECC .21333 INC 2.1506 V1 30.020
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.454 GAP .37 AZP 88.82 TAL 238.97 TAP 2.12 RCA 108.88 APO 167.93 V2 34.802
 RC 88.877 GL -9.25 GP 37.38 ZAL 161.31 ZAP 92.02 ETS 3.57 ZAE 141.24 ETE 111.92 ZAC 96.93 ETC 158.17 CLP -92.55

PLANETOCENTRIC CONIC

C3 43.361 VHL 6.585 DLA -7.86 RAL 5.14 RAD 6568.6 VEL 12.835 PTH 2.34 VHP 4.479 DPA 37.00 RAP 357.67 ECC 1.7136
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 37 2160.53 -18.22 38.09 237.64 112.06 2 23 37 1560.5 -15.07 30.83
 90.00 11 47 10 5296.94 27.24 240.13 243.09 81.94 13 15 27 4696.9 25.84 231.74
 100.00 3 5 10 1910.34 -19.51 19.13 237.08 113.11 3 37 0 1310.3 -16.21 11.88
 100.00 13 12 18 5022.37 28.61 219.70 242.85 80.96 14 36 1 4422.4 27.07 211.24
 110.00 4 4 45 1723.74 -22.93 3.29 235.40 116.07 4 33 29 1123.7 -19.24 356.09
 110.00 14 29 12 4781.73 32.32 200.64 242.06 78.20 15 48 54 4181.7 30.36 191.97

DIFFERENTIAL CORRECTIONS

TDE -.5684 TRA -.9352 TC3 -.4254 BAU .4165
 RDE .0254 RRA .4299 RC3 .5791 FAU .10735
 FDE -1.7457 FRA -1.0904 FC3 -2.1432 BSP 3764
 BDE .5690 BRA 1.0292 BC3 .7185 FSP -903

MID-COURSE EXECUTION ACCURACY

SGT 1110.5 SGR 851.3 SG3 289.0
 RRT -.7916 RRF -.8947 RTF .8396
 SGB 1399.2 R23 .1753 R13 -.9033
 SG1 1330.1 SG2 434.2 THA 144.38

ORBIT DETERMINATION ACCURACY

ST 552.8 SR 117.7 SS 599.1
 CRT -.6033 CRS .3738 CST -.9621
 LSA 809.5 MSA 150.3 SSA 21.7
 EL1 557.5 EL2 93.1 ALF 172.47

LAUNCH DATE MAR 6 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 272.137

RL 148.42 LAL .00 LOL 165.25 VL 28.763 GAL -11.46 AZL 92.43 HCA 126.30 SMA 138.09 ECC .21182 INC 2.4280 V1 30.020
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.422 GAP .80 AZP 88.56 TAL 238.29 TAP 4.59 RCA 108.84 APO 167.35 V2 34.797
 RC 91.256 GL -10.52 GP 38.50 ZAL 160.31 ZAP 95.80 ETS 6.58 ZAE 139.00 ETE 116.30 ZAC 95.25 ETC 159.09 CLP -97.42

PLANETOCENTRIC CONIC

C3 42.797 VHL 6.542 DLA -8.85 RAL 6.04 RAD 6568.6 VEL 12.813 PTH 2.33 VHP 4.533 DPA 37.27 RAP 355.49 ECC 1.7043
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 59 0 2125.37 -17.31 35.91 238.17 112.77 2 34 25 1525.4 -14.08 28.73
 90.00 11 43 0 5325.50 27.49 242.18 244.21 82.94 13 11 46 4725.5 26.23 233.74
 100.00 3 16 2 1876.86 -18.60 17.05 237.59 113.83 3 47 19 1276.9 -15.22 9.89
 100.00 13 8 40 5049.24 28.89 221.65 244.00 81.95 14 32 49 4449.2 27.47 213.14
 110.00 4 14 27 1693.93 -22.03 1.44 235.86 116.83 4 42 41 1093.9 -18.25 354.35
 110.00 14 26 44 4804.94 32.63 202.38 243.28 79.19 15 46 49 4204.9 30.79 193.64

DIFFERENTIAL CORRECTIONS

TDE -.6471 TRA -.9919 TC3 -.5113 BAU .4498
 RDE .0623 RRA .4079 RC3 .5970 FAU .10418
 FDE -1.7692 FRA -1.0045 FC3 -2.1075 BSP 4152
 BDE .6501 BRA 1.0725 BC3 .7861 FSP -888

MID-COURSE EXECUTION ACCURACY

SGT 1241.7 SGR 862.5 SG3 283.9
 RRT -.8137 RRF -.9034 RTF .8592
 SGB 1511.8 R23 .1847 R13 -.9098
 SG1 1449.5 SG2 429.5 THA 147.30

ORBIT DETERMINATION ACCURACY

ST 625.4 SR 123.6 SS 616.6
 CRT -.7757 CRS .5928 CST -.9650
 LSA 874.8 MSA 144.7 SSA 21.2
 EL1 632.8 EL2 77.1 ALF 171.15

LAUNCH DATE MAR 6 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 278.352

RL 148.42 LAL .00 LOL 165.25 VL 28.722 GAL -11.31 AZL 92.73 HCA 129.45 SMA 137.75 ECC .21036 INC 2.7287 V1 30.020
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.387 GAP 1.21 AZP 88.27 TAL 237.53 TAP 6.98 RCA 108.78 APO 166.73 V2 34.793
 RC 93.644 GL -11.90 GP 39.64 ZAL 159.16 ZAP 99.29 ETS 9.66 ZAE 136.70 ETE 120.11 ZAC 93.73 ETC 159.92 CLP-102.10

PLANETOCENTRIC CONIC

C3 42.289 VHL 6.503 DLA -9.92 RAL 7.05 RAD 6568.6 VEL 12.793 PTH 2.33 VHP 4.612 DPA 37.63 RAP 353.48 ECC 1.6960
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 11 35 2087.55 -16.30 33.60 238.85 113.48 2 46 22 1487.6 -12.98 26.49
 90.00 11 38 29 5357.30 27.74 244.47 245.51 84.06 13 7 46 4757.3 26.63 235.98
 100.00 3 28 1 1840.93 -17.60 14.86 238.25 114.56 3 58 42 1240.9 -14.14 7.78
 100.00 13 4 43 5079.16 29.15 223.84 245.33 83.07 14 29 23 4479.2 27.89 215.26
 110.00 4 25 8 1662.09 -21.04 359.50 236.47 117.59 4 52 50 1062.1 -17.18 352.50
 110.00 14 24 6 4830.77 32.94 204.33 244.68 80.30 15 44 37 4230.8 31.25 195.51

DIFFERENTIAL CORRECTIONS

TDE -.7345 TRA-1.0443 TC3 -.5973 BAU .4834
 RDE .1004 RRA .3819 RC3 .6117 FAU .10025
 FDE-1.7839 FRA -.9115 FC3-2.0522 BSP 4566
 BDE .7413 BRA 1.1119 BC3 .8550 FSP -872

MID-COURSE EXECUTION ACCURACY

SGT 1376.5 SGR 870.3 SG3 276.7
 RRT -.8300 RRF -.9115 RTF .8737
 SGB 1628.6 R23 .1946 R13 -.9149
 SG1 1572.2 SG2 425.0 THA 149.88

ORBIT DETERMINATION ACCURACY

ST 705.6 SR 137.5 SS 634.7
 CRT -.8919 CRS .7582 CST -.9678
 LSA 948.5 MSA 139.4 SSA 20.5
 EL1 716.2 EL2 61.2 ALF 170.07

LAUNCH DATE MAR 6 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 284.536

RL 148.42 LAL .00 LOL 165.25 VL 28.677 GAL -11.16 AZL 93.06 HCA 132.60 SMA 137.39 ECC .20894 INC 3.0579 V1 30.020
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.351 GAP 1.60 AZP 87.93 TAL 236.68 TAP 9.29 RCA 108.68 APO 166.09 V2 34.789
 RC 96.038 GL -13.41 GP 40.82 ZAL 157.85 ZAP 102.46 ETS 12.81 ZAE 134.35 ETE 123.39 ZAC 92.38 ETC 160.66 CLP-106.56

PLANETOCENTRIC CONIC

C3 41.856 VHL 6.470 DLA -11.09 RAL 8.17 RAD 6568.6 VEL 12.776 PTH 2.32 VHP 4.717 DPA 38.12 RAP 351.64 ECC 1.6888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 36 2046.41 -15.16 31.11 239.71 114.20 2 59 42 1446.4 -11.77 24.07
 90.00 11 33 26 5393.24 27.96 247.08 247.00 85.35 13 3 19 4793.2 27.02 238.54
 100.00 3 41 22 1801.95 -16.48 12.50 239.08 115.30 4 11 24 1201.9 -12.93 5.50
 100.00 13 0 21 5112.94 29.40 226.32 246.85 84.35 14 25 34 4512.9 28.31 217.68
 110.00 4 37 0 1627.73 -19.94 357.44 237.23 118.36 5 4 8 1027.7 -16.00 350.54
 110.00 14 21 12 4859.92 33.25 206.55 246.29 81.58 15 42 12 4259.9 31.73 197.65

DIFFERENTIAL CORRECTIONS

TDE -.8317 TRA-1.0910 TC3 -.6821 BAU .5166
 RDE .1393 RRA .3512 RC3 .6222 FAU .09552
 FDE-1.7880 FRA -.8106 FC3-1.9758 BSP 4992
 BDE .8432 BRA 1.1461 BC3 .9232 FSP -849

MID-COURSE EXECUTION ACCURACY

SGT 1513.6 SGR 873.9 SG3 267.4
 RRT -.8418 RRF -.9189 RTF .8844
 SGB 1747.7 R23 .2057 R13 -.9188
 SG1 1696.3 SG2 421.0 THA 152.22

ORBIT DETERMINATION ACCURACY

ST 794.0 SR 157.6 SS 652.3
 CRT -.9555 CRS .8644 CST -.9704
 LSA 1030.6 MSA 134.7 SSA 19.7
 EL1 808.2 EL2 45.7 ALF 169.23

LAUNCH DATE MAR 6 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 290.689

RL 148.42 LAL .00 LOL 165.25 VL 28.628 GAL -11.00 AZL 93.42 HCA 135.76 SMA 136.99 ECC .20757 INC 3.4222 V1 30.020
 RP 108.94 LAP -2.39 LOP 301.05 VP 38.312 GAP 1.97 AZP 87.55 TAL 235.77 TAP 11.52 RCA 108.56 APO 165.43 V2 34.787
 RC 98.436 GL -15.09 GP 42.07 ZAL 156.37 ZAP 105.28 ETS 16.05 ZAE 131.96 ETE 126.22 ZAC 91.18 ETC 161.30 CLP-110.80

PLANETOCENTRIC CONIC

C3 41.522 VHL 6.444 DLA -12.38 RAL 9.43 RAD 6568.6 VEL 12.763 PTH 2.32 VHP 4.848 DPA 38.76 RAP 349.91 ECC 1.6833
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 41 23 2001.13 -13.88 28.40 240.77 114.93 3 14 44 1401.1 -10.41 21.44
 90.00 11 27 39 5434.49 28.15 250.08 248.72 86.84 12 58 13 4834.5 27.42 241.49
 100.00 3 56 23 1759.17 -15.22 9.95 240.11 116.04 4 25 42 1159.2 -11.59 3.04
 100.00 12 55 20 5151.67 29.63 229.17 248.61 85.84 14 21 12 4551.7 28.74 220.48
 110.00 4 50 18 1590.31 -18.71 355.23 238.20 119.14 5 16 48 990.3 -14.69 348.43
 110.00 14 17 54 4893.30 33.56 209.11 248.17 83.07 15 39 28 4293.3 32.23 200.12

DIFFERENTIAL CORRECTIONS

TDE -.9393 TRA-1.1300 TC3 -.7632 BAU .5483
 RDE .1781 RRA .3146 RC3 .6270 FAU .08996
 FDE-1.7791 FRA -.7006 FC3-1.8757 BSP 5392
 BDE .9560 BRA 1.1730 BC3 .9877 FSP -811

MID-COURSE EXECUTION ACCURACY

SGT 1650.3 SGR 871.8 SG3 255.6
 RRT -.8492 RRF -.9253 RTF .8920
 SGB 1866.4 R23 .2182 R13 -.9214
 SG1 1819.0 SG2 417.7 THA 154.39

ORBIT DETERMINATION ACCURACY

ST 890.9 SR 181.8 SS 668.2
 CRT -.9848 CRS .9267 CST -.9728
 LSA 1120.6 MSA 130.7 SSA 18.6
 EL1 908.7 EL2 30.9 ALF 168.62

LAUNCH DATE MAR 6 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 296.814

RL 148.42 LAL .00 LOL 165.25 VL 28.577 GAL -10.83 AZL 93.83 HCA 138.91 SMA 136.58 ECC .20623 INC 3.8300 V1 30.020
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.272 GAP 2.33 AZP 87.11 TAL 234.78 TAP 13.69 RCA 108.41 APO 164.75 V2 34.785
 RC 100.837 GL -16.96 GP 43.45 ZAL 154.68 ZAP 107.74 ETS 19.39 ZAE 129.55 ETE 128.63 ZAC 90.11 ETC 161.85 CLP-114.82

PLANETOCENTRIC CONIC

C3 41.325 VHL 6.428 DLA -13.81 RAL 10.83 RAD 6568.6 VEL 12.755 PTH 2.32 VHP 5.008 DPA 39.59 RAP 348.28 ECC 1.6801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 59 24 1950.62 -12.41 25.42 242.09 115.66 3 31 55 1350.6 -8.86 18.54
 90.00 11 20 48 5482.59 28.29 253.60 250.72 88.60 12 52 11 4882.6 27.79 244.96
 100.00 4 13 27 1711.69 -13.78 7.16 241.40 116.79 4 41 59 1111.7 -10.07 .33
 100.00 12 49 26 5196.76 29.80 232.51 250.66 87.59 14 16 3 4596.8 29.15 223.77
 110.00 5 5 21 1549.15 -17.33 352.84 239.41 119.93 5 31 10 949.2 -13.22 346.14
 110.00 14 14 2 4932.06 33.84 212.10 250.35 84.82 15 36 14 4332.1 32.75 203.03

DIFFERENTIAL CORRECTIONS

TDE-1.0609 TRA-1.1612 TC3 -.8401 BAU .5795
 RDE .2199 RRA .2744 RC3 .6281 FAU .08406
 FDE-1.7674 FRA -.5919 FC3-1.7611 BSP 5821
 BDE 1.0835 BRA 1.1931 BC3 1.0489 FSP -775

MID-COURSE EXECUTION ACCURACY

SGT 1787.9 SGR 868.4 SG3 242.9
 RRT -.8541 RRF -.9316 RTF .8981
 SGB 1987.6 R23 .2311 R13 -.9237
 SG1 1943.7 SG2 415.4 THA 156.32

ORBIT DETERMINATION ACCURACY

ST 998.7 SR 211.4 SS 685.9
 CRT -.9957 CRS .9628 CST -.9752
 LSA 1223.1 MSA 127.8 SSA 17.3
 EL1 1020.7 EL2 19.1 ALF 168.09

LAUNCH DATE MAR 6 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.523 GAL -10.65 AZL 94.29 HCA 142.05 SMA 136.15 ECC .20495 INC 4.2927 V1 30.020
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.231 GAP 2.67 A2P 86.61 TAL 233.74 TAP 15.79 RCA 108.25 APO 164.05 V2 34.784
 RC 103.240 GL -19.05 GP 44.98 ZAL 152.75 ZAP 109.82 ETS 22.85 ZAE 127.09 ETE 130.69 ZAC 89.14 ETC 162.32 CLP-118.65

PLANETOCENTRIC CONIC

C3 41.316 VHL 6.428 DLA -15.43 RAL 12.40 RAD 6568.6 VEL 12.755 PTH 2.32 VHP 5.201 DPA 40.62 RAP 346.67 ECC 1.6800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 20 16 1893.45 -10.71 22.09 243.75 116.37 3 51 49 1293.5 -7.08 15.29
 90.00 11 12 30 5539.66 28.31 257.77 253.05 90.69 12 44 49 4939.7 28.11 249.11
 100.00 4 33 9 1658.26 -12.12 4.06 243.02 117.54 5 0 47 1058.3 -0.33 357.32
 100.00 12 42 17 5250.09 29.89 236.48 253.06 89.67 14 9 47 4650.1 29.53 227.69
 110.00 5 22 35 1503.41 -15.76 350.23 240.93 120.73 5 47 39 903.4 -11.57 343.63
 110.00 14 9 20 4977.70 34.06 215.64 252.91 86.90 15 32 18 4377.7 33.26 206.49

DIFFERENTIAL CORRECTIONS

TOE-1.1984 TRA-1.1812 TC3 -.9090 BAU .6086
 ROE .2627 RRA .2279 RC3 .6226 FAU .07759
 FDE-1.7466 FRA -.4789 FC3-1.6257 BSP 6216
 BDE 1.2268 BRA 1.2030 BC3 1.1017 FSP -728

MID-COURSE EXECUTION ACCURACY

SGT 1923.4 SGR 860.1 SG3 228.4
 RRT -.8556 RRF -.9371 RTF .9025
 SGB 2107.0 R23 .2450 R13 -.9252
 SG1 2065.8 SG2 414.5 THA 158.14

ORBIT DETERMINATION ACCURACY

ST 1117.9 SR 243.7 SS 702.7
 CRT -.9972 CRS .9825 CST -.9775
 LSA 1336.7 MSA 126.2 SSA 15.7
 EL1 1144.0 EL2 17.9 ALF 167.73

LAUNCH DATE MAR 6 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.467 GAL -10.47 AZL 94.83 HCA 145.20 SMA 135.70 ECC .20370 INC 4.8256 V1 30.020
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.189 GAP 2.99 A2P 86.03 TAL 232.63 TAP 17.83 RCA 108.06 APO 163.35 V2 34.783
 RC 105.643 GL -21.42 GP 46.73 ZAL 150.55 ZAP 111.49 ETS 26.47 ZAE 124.55 ETE 132.45 ZAC 88.24 ETC 162.72 CLP-122.31

PLANETOCENTRIC CONIC

C3 41.574 VHL 6.448 DLA -17.26 RAL 14.18 RAD 6568.6 VEL 12.765 PTH 2.32 VHP 5.433 DPA 41.89 RAP 345.00 ECC 1.6842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 53 1827.54 -8.69 18.30 245.86 117.06 4 15 20 1227.5 -4.99 11.57
 90.00 11 2 4 5608.71 28.15 262.81 255.77 93.22 12 35 33 5008.7 28.30 254.15
 100.00 4 56 16 1597.18 -10.17 .58 245.07 118.26 5 22 53 997.2 -6.31 353.91
 100.00 12 33 22 5314.30 29.82 241.25 255.86 92.18 14 1 56 4714.3 29.80 232.44
 110.00 5 42 37 1452.00 -13.95 347.34 242.85 121.53 6 6 49 852.0 -9.68 340.85
 110.00 14 3 31 5032.25 34.18 219.90 255.93 89.42 15 27 23 4432.2 33.72 210.68

DIFFERENTIAL CORRECTIONS

TOE-1.3583 TRA-1.1899 TC3 -.9685 BAU .6366
 ROE .3094 RRA .1765 RC3 .6113 FAU .07092
 FDE-1.7248 FRA -.3702 FC3-1.4769 BSP 6641
 BDE 1.3931 BRA 1.2029 BC3 1.1453 FSP -682

MID-COURSE EXECUTION ACCURACY

SGT 2059.8 SGR 850.8 SG3 213.3
 RRT -.8549 RRF -.9422 RTF .9066
 SGB 2228.6 R23 .2584 R13 -.9268
 SG1 2189.6 SG2 415.3 THA 159.79

ORBIT DETERMINATION ACCURACY

ST 1252.5 SR 280.3 SS 721.6
 CRT -.9944 CRS .9929 CST -.9798
 LSA 1466.9 MSA 126.0 SSA 14.0
 EL1 1283.1 EL2 29.0 ALF 167.45

LAUNCH DATE MAR 6 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.409 GAL -10.28 AZL 95.45 HCA 148.34 SMA 135.25 ECC .20250 INC 5.4498 V1 30.020
 RP 108.95 LAP -2.86 LOP 313.70 VP 38.146 GAP 3.30 A2P 85.36 TAL 231.47 TAP 19.81 RCA 107.86 APO 162.64 V2 34.783
 RC 108.045 GL -24.12 GP 48.73 ZAL 148.02 ZAP 112.71 ETS 30.27 ZAE 121.91 ETE 133.99 ZAC 87.36 ETC 163.09 CLP-125.83

PLANETOCENTRIC CONIC

C3 42.213 VHL 6.497 DLA -19.34 RAL 16.21 RAD 6568.6 VEL 12.790 PTH 2.33 VHP 5.715 DPA 43.40 RAP 343.19 ECC 1.6947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 41 1749.60 -6.25 13.87 248.58 117.68 4 43 50 1149.6 -2.49 7.20
 90.00 10 48 29 5694.34 27.67 269.03 258.94 96.29 12 23 23 5094.3 28.25 260.41
 100.00 5 24 0 1525.92 -7.85 356.56 247.71 118.94 5 49 26 925.9 -3.93 349.97
 100.00 12 21 51 5393.26 29.47 247.09 259.14 95.24 13 51 44 4793.3 29.89 238.31
 110.00 6 6 16 1393.48 -11.84 344.12 245.31 122.30 6 29 29 793.5 -7.49 337.72
 110.00 13 56 4 5098.46 34.10 225.07 259.51 92.48 15 21 3 4498.5 34.07 215.82

DIFFERENTIAL CORRECTIONS

TOE-1.5455 TRA-1.1827 TC3-1.0129 BAU .6617
 ROE .3577 RRA .1170 RC3 .5904 FAU .06387
 FDE-1.6965 FRA -.2614 FC3-1.3098 BSP 7033
 BDE 1.5863 BRA 1.1884 BC3 1.1725 FSP -629

MID-COURSE EXECUTION ACCURACY

SGT 2193.6 SGR 836.7 SG3 196.9
 RRT -.8503 RRF -.9462 RTF .9099
 SGB 2347.7 R23 .2718 R13 -.9282
 SG1 2310.2 SG2 418.1 THA 161.40

ORBIT DETERMINATION ACCURACY

ST 1403.2 SR 317.9 SS 740.0
 CRT -.9899 CRS .9978 CST -.9821
 LSA 1612.8 MSA 127.4 SSA 12.1
 EL1 1438.1 EL2 43.9 ALF 167.35

LAUNCH DATE MAR 6 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 28.349 GAL -10.08 AZL 96.20 HCA 151.48 SMA 134.78 ECC .20135 INC 6.1961 V1 30.020
 RP 108.94 LAP -2.95 LOP 316.87 VP 38.102 GAP 3.60 A2P 84.55 TAL 230.26 TAP 21.74 RCA 107.64 APO 161.92 V2 34.784
 RC 110.446 GL -27.21 GP 51.05 ZAL 145.09 ZAP 113.46 ETS 34.30 ZAE 119.10 ETE 135.39 ZAC 86.44 ETC 163.49 CLP-129.29

PLANETOCENTRIC CONIC

C3 43.416 VHL 6.589 DLA -21.72 RAL 18.56 RAD 6568.6 VEL 12.837 PTH 2.34 VHP 6.062 DPA 45.18 RAP 341.10 ECC 1.7145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 8 1653.69 -3.19 8.48 252.18 118.15 5 19 42 1053.7 .60 1.85
 90.00 10 29 45 5804.41 26.59 276.91 262.58 100.10 12 6 29 5204.4 27.72 268.42
 100.00 5 58 17 1440.18 -4.99 351.79 251.18 119.51 6 22 18 840.2 -1.03 345.25
 100.00 12 6 17 5493.16 28.63 254.39 262.96 98.99 13 37 50 4893.2 29.57 245.72
 110.00 6 34 48 1325.75 -9.35 340.45 248.51 123.03 6 56 53 725.8 -4.94 334.15
 110.00 13 46 16 5180.35 33.68 231.42 263.75 96.22 15 12 36 4580.3 34.17 222.21

DIFFERENTIAL CORRECTIONS

TOE-1.7726 TRA-1.1578 TC3-1.0388 BAU .6848
 ROE .4092 RRA .0496 RC3 .5594 FAU .05672
 FDE-1.6679 FRA -.1594 FC3-1.1310 BSP 7459
 BDE 1.8192 BRA 1.1588 BC3 1.1799 FSP -577

MID-COURSE EXECUTION ACCURACY

SGT 2329.0 SGR 819.9 SG3 180.1
 RRT -.8421 RRF -.9487 RTF .9138
 SGB 2469.1 R23 .2830 R13 -.9302
 SG1 2432.6 SG2 423.4 THA 162.96

ORBIT DETERMINATION ACCURACY

ST 1575.8 SR 356.8 SS 760.3
 CRT -.9852 CRS .9995 CST -.9844
 LSA 1780.9 MSA 129.9 SSA 10.2
 EL1 1614.6 EL2 59.7 ALF 167.41

LAUNCH DATE MAR 6 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 327.044

RL 148.42 LAL .00 LOL 165.25 VL 28.288 GAL -9.87 AZL 97.11 HCA 154.61 SMA 134.31 ECC .20024 INC 7.1098 V1 30.020
 RP 108.94 LAP -3.04 LOP 320.03 VP 38.058 GAP 3.88 AZP 83.57 TAL 229.00 TAP 23.62 RCA 107.42 APO 161.21 V2 34.786
 RC 112.844 GL -30.76 GP 53.76 ZAL 141.69 ZAP 113.68 ETS 38.64 ZAE 116.08 ETE 136.77 ZAC 85.41 ETC 164.00 CLP-132.78

PLANETOCENTRIC CONIC

C3 45.482 VHL 6.744 DLA -24.46 RAL 21.31 RAD 6568.7 VEL 12.917 PTH 2.35 VHP 6.501 DPA 47.23 RAP 338.53 ECC 1.7485
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 42 36 1525.78 .94 1.34 257.16 118.30 6 8 2 925.8 4.71 354.70
 90.00 10 1 15 667.68 24.36 309.51 266.57 104.91 10 12 23 67.7 26.17 301.31
 100.00 6 42 53 1331.16 -1.31 345.79 255.90 119.87 7 5 5 731.2 2.67 339.27
 100.00 11 43 39 5625.57 26.85 263.83 267.28 103.65 13 17 24 5025.6 28.46 255.40
 110.00 7 10 13 1245.45 -6.35 336.18 252.78 123.66 7 30 59 645.4 -1.88 329.94
 110.00 13 32 49 5284.04 32.64 239.33 268.72 100.78 15 0 53 4684.0 33.78 230.28

DIFFERENTIAL CORRECTIONS

TDE-2.0541 TRA-1.1076 TC3-1.0375 BAU .7040
 RDE .4602 RRA -.0295 RC3 .5139 FAU .04938
 FDE-1.6361 FRA -.0623 FC3 -.9400 BSP 7883
 BOE 2.1050 BRA 1.1080 BC3 1.1578 FSP -522

MID-COURSE EXECUTION ACCURACY

SGT 2464.2 SGR 796.3 SG3 162.6
 RRT -.8276 RRF -.9479 RTF .9185
 SGB 2589.7 R23 .2914 R13 -.9330
 SG1 2553.5 SG2 431.4 THA 164.58

ORBIT DETERMINATION ACCURACY

ST 1772.9 SR 391.7 SS 781.1
 CRT -.9803 CRS .9991 CST -.9867
 LSA 1972.0 MSA 133.6 SSA 8.4
 EL1 1814.1 EL2 75.7 ALF 167.76

LAUNCH DATE MAR 6 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 333.013

RL 148.42 LAL .00 LOL 165.25 VL 28.226 GAL -9.65 AZL 98.26 HCA 157.74 SMA 133.83 ECC .19918 INC 8.2617 V1 30.020
 RP 108.93 LAP -3.12 LOP 323.20 VP 38.014 GAP 4.15 AZP 82.35 TAL 227.69 TAP 25.43 RCA 107.18 APO 160.49 V2 34.789
 RC 115.239 GL -34.86 GP 56.91 ZAL 137.73 ZAP 113.31 ETS 43.39 ZAE 112.74 ETE 138.30 ZAC 84.18 ETC 164.78 CLP-136.45

PLANETOCENTRIC CONIC

C3 48.934 VHL 6.995 DLA -27.58 RAL 24.60 RAD 6568.8 VEL 13.050 PTH 2.38 VHP 7.072 DPA 49.52 RAP 335.23 ECC 1.8053
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 26 1299.38 8.15 348.62 265.00 117.21 7 30 6 699.4 11.73 341.77
 90.00 9 1 39 930.72 18.69 326.69 269.91 111.67 9 17 10 330.7 21.47 319.12
 100.00 7 47 59 1171.59 4.09 337.03 262.79 119.64 8 7 30 571.6 8.00 330.43
 100.00 11 4 48 5821.79 23.01 277.13 271.66 109.63 12 41 49 5221.8 25.47 269.20
 110.00 7 56 11 1145.85 -2.56 330.95 258.66 124.10 8 15 17 545.8 1.93 324.75
 110.00 13 13 5 5420.30 30.45 249.35 274.36 106.33 14 43 25 4820.3 32.39 240.67

DIFFERENTIAL CORRECTIONS

TDE-2.4128 TRA-1.0206 TC3 -.9987 BAU .7163
 RDE .5016 RRA -.1253 RC3 .4488 FAU .04181
 FDE-1.5991 FRA .0306 FC3 -.7397 BSP 8254
 BOE 2.4644 BRA 1.0283 BC3 1.0949 FSP -460

MID-COURSE EXECUTION ACCURACY

SGT 2597.5 SGR 759.3 SG3 144.2
 RRT -.8011 RRF -.9397 RTF .9241
 SGB 2706.2 R23 .2960 R13 -.9367
 SG1 2669.9 SG2 442.1 THA 166.44

ORBIT DETERMINATION ACCURACY

ST 1996.8 SR 412.8 SS 800.5
 CRT -.9742 CRS .9967 CST -.9890
 LSA 2186.2 MSA 138.1 SSA 6.7
 EL1 2037.0 EL2 91.4 ALF 168.59

LAUNCH DATE MAR 6 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 338.954

RL 148.42 LAL .00 LOL 165.25 VL 28.163 GAL -9.43 AZL 99.77 HCA 160.86 SMA 133.35 ECC .19816 INC 9.7681 V1 30.020
 RP 108.92 LAP -3.19 LOP 326.36 VP 37.970 GAP 4.40 AZP 80.76 TAL 226.34 TAP 27.20 RCA 106.93 APO 159.78 V2 34.792
 RC 117.630 GL -39.57 GP 60.59 ZAL 133.11 ZAP 112.30 ETS 48.79 ZAE 108.99 ETE 140.30 ZAC 82.63 ETC 166.12 CLP-140.62

PLANETOCENTRIC CONIC

C3 54.747 VHL 7.399 DLA -31.10 RAL 28.61 RAD 6569.0 VEL 13.271 PTH 2.42 VHP 7.845 DPA 51.96 RAP 330.80 ECC 1.9010
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.57 6 34 21 1485.74 14.04 5.48 274.09 118.04 6 59 7 885.7 17.68 358.49
 103.43 10 7 43 800.12 14.06 314.86 274.10 118.03 10 21 3 200.1 17.70 307.87
 76.57 6 34 21 1485.74 14.04 5.48 274.09 118.04 6 59 7 885.7 17.68 358.49
 103.43 10 7 43 800.12 14.06 314.86 274.10 118.03 10 21 3 200.1 17.70 307.87
 110.00 9 1 32 1007.16 2.74 323.71 267.23 124.09 9 18 19 407.2 7.19 317.46
 110.00 12 39 43 5614.74 25.97 262.68 280.14 113.05 14 13 18 5014.7 28.86 254.69

DIFFERENTIAL CORRECTIONS

TDE-2.8916 TRA -.8819 TC3 -.9146 BAU .7202
 RDE .5148 RRA -.2406 RC3 .3630 FAU .03431
 FDE-1.5628 FRA .1144 FC3 -.5425 BSP 8671
 BOE 2.9370 BRA .9141 BC3 .9840 FSP -402

MID-COURSE EXECUTION ACCURACY

SGT 2735.3 SGR 703.4 SG3 125.8
 RRT -.7516 RRF -.9141 RTF .9326
 SGB 2824.3 R23 .2928 R13 -.9426
 SG1 2787.3 SG2 455.3 THA 168.76

ORBIT DETERMINATION ACCURACY

ST 2252.2 SR 404.3 SS 820.7
 CRT -.9639 CRS .9905 CST -.9913
 LSA 2426.8 MSA 142.7 SSA 5.2
 EL1 2285.7 EL2 106.1 ALF 170.16

LAUNCH DATE MAR 6 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 344.861

RL 148.42 LAL .00 LOL 165.25 VL 28.098 GAL -9.19 AZL 101.83 HCA 163.96 SMA 132.87 ECC .19716 INC 11.8337 V1 30.020
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.926 GAP 4.64 AZP 78.61 TAL 224.94 TAP 28.89 RCA 106.68 APO 159.07 V2 34.796
 RC 120.015 GL -44.91 GP 64.87 ZAL 127.75 ZAP 110.59 ETS 55.35 ZAE 104.67 ETE 143.40 ZAC 80.59 ETC 168.63 CLP-145.92

PLANETOCENTRIC CONIC

C3 64.913 VHL 8.057 DLA -34.94 RAL 33.61 RAD 6569.2 VEL 13.648 PTH 2.49 VHP 8.945 DPA 54.38 RAP 324.68 ECC 2.0683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.61 6 3 11 1685.32 14.12 20.86 282.50 122.30 6 31 17 1085.3 18.28 14.16
 111.39 11 18 47 683.53 14.13 305.94 282.51 122.30 11 30 10 83.5 18.29 299.24
 68.61 6 3 11 1685.32 14.12 20.86 282.50 122.30 6 31 17 1085.3 18.28 14.16
 111.39 11 18 47 683.53 14.13 305.94 282.51 122.30 11 30 10 83.5 18.29 299.24
 68.61 6 3 11 1685.32 14.12 20.86 282.50 122.30 6 31 17 1085.3 18.28 14.16
 111.39 11 18 47 683.53 14.13 305.94 282.51 122.30 11 30 10 83.5 18.29 299.24

DIFFERENTIAL CORRECTIONS

TDE-3.5518 TRA -.6527 TC3 -.7731 BAU .7061
 RDE .4367 RRA -.3812 RC3 .2537 FAU .02678
 FDE-1.5276 FRA .1930 FC3 -.3572 BSP 9034
 BOE 3.5786 BRA .7559 BC3 .8137 FSP -340

MID-COURSE EXECUTION ACCURACY

SGT 2872.7 SGR 610.6 SG3 107.2
 RRT -.6307 RRF -.8289 RTF .9444
 SGB 2936.9 R23 .2794 R13 -.9509
 SG1 2899.1 SG2 469.5 THA 172.16

ORBIT DETERMINATION ACCURACY

ST 2531.8 SR 326.2 SS 840.6
 CRT -.9298 CRS .9654 CST -.9936
 LSA 2683.6 MSA 146.9 SSA 4.0
 EL1 2550.0 EL2 119.2 ALF 173.15

LAUNCH DATE MAR 6 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 2 1969

DISTANCE 350.723

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 28.034 GAL -8.94 AZL 104.85 HCA 167.03 SMA 132.39 ECC .19616 INC14.8536 V1 30.020
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.882 GAP 4.87 AZP 75.51 TAL 223.48 TAP 30.51 RCA 106.42 APO 158.36 V2 34.800
 RC 122.394 GL -50.76 GP 69.75 ZAL 121.59 ZAP 108.13 ETS 64.37 ZAE 99.54 ETE 149.02 ZAC 77.80 ETC 173.73 CLP -154.04

PLANETOCENTRIC CONIC
 C3 84.010 VHL 9.166 DLA -38.85 RAL 39.97 RAD 6569.6 VEL 14.330 PTH 2.61 VHP 10.613 DPA 56.36 RAP 316.15 ECC 2.3826
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.21 5 54 45 1845.14 13.05 33.03 293.22 126.92 6 25 30 1245.1 17.76 26.74
 117.79 12 17 56 644.07 13.07 302.00 293.24 126.92 12 28 40 44.1 17.78 295.71
 62.21 5 54 45 1845.14 13.05 33.03 293.22 126.92 6 25 30 1245.1 17.76 26.74
 117.79 12 17 56 644.07 13.07 302.00 293.24 126.92 12 28 40 44.1 17.78 295.71
 62.21 5 54 45 1845.14 13.05 33.03 293.22 126.92 6 25 30 1245.1 17.76 26.74
 117.79 12 17 56 644.07 13.07 302.00 293.24 126.92 12 28 40 44.1 17.78 295.71

DIFFERENTIAL CORRECTIONS
 TDE-4.4938 TRA -2.583 TC3 -.5719 BAU .6587
 RDE .0773 RRA -.5321 RC3 .1298 FAU .01943
 FDE-1.5076 FRA .2689 FC3 -.2003 BSP 9406
 BDE 4.4945 BRA .5915 BC3 .5865 FSP -282

MID-COURSE EXECUTION ACCURACY
 SGT 3005.6 SGR 491.3 SG3 89.4
 RRT -.2010 RRF -.4430 RTF .9612
 SGB 3045.5 R23 .2499 R13 -.9625
 SG1 3007.2 SG2 481.0 THA 178.07

ORBIT DETERMINATION ACCURACY
 ST 2810.0 SR 137.1 SS 866.3
 CRT -.3323 CRS .4163 CST -.9959
 LSA 2939.9 MSA 149.2 SSA 3.0
 EL1 2810.4 EL2 129.3 ALF 179.07

LAUNCH DATE MAR 6 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 4 1969

DISTANCE 356.513

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.969 GAL -8.68 AZL 109.69 HCA 170.05 SMA 131.91 ECC .19510 INC19.6879 V1 30.020
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.839 GAP 5.07 AZP 70.59 TAL 221.96 TAP 32.01 RCA 106.17 APO 157.65 V2 34.805
 RC 124.766 GL -56.64 GP 74.85 ZAL 114.71 ZAP 104.92 ETS 79.59 ZAE 93.17 ETE 161.03 ZAC 73.79 ETC 185.33 CLP -170.04

PLANETOCENTRIC CONIC
 C3 124.373 VHL 11.152 DLA -42.16 RAL 48.08 RAD 6570.3 VEL 15.675 PTH 2.79 VHP 13.378 DPA 57.04 RAP 304.55 ECC 3.0469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.36 6 5 19 1989.32 10.30 43.05 306.49 131.11 6 38 28 1389.3 15.49 37.22
 122.64 13 12 7 666.06 10.31 301.60 306.50 131.11 13 23 13 66.1 15.51 295.77
 57.36 6 5 19 1989.32 10.30 43.05 306.49 131.11 6 38 28 1389.3 15.49 37.22
 122.64 13 12 7 666.06 10.31 301.60 306.50 131.11 13 23 13 66.1 15.51 295.77
 57.36 6 5 19 1989.32 10.30 43.05 306.49 131.11 6 38 28 1389.3 15.49 37.22
 122.64 13 12 7 666.06 10.31 301.60 306.50 131.11 13 23 13 66.1 15.51 295.77

DIFFERENTIAL CORRECTIONS
 TDE-5.7339 TRA .4794 TC3 -.3203 BAU .5335
 RDE-1.2614 RRA -.5641 RC3 .0198 FAU .01202
 FDE-1.5303 FRA .3603 FC3 -.0837 BSP 9758
 BDE 5.8710 BRA .7403 BC3 .3209 FSP -230

MID-COURSE EXECUTION ACCURACY
 SGT 3049.3 SGR 758.1 SG3 73.1
 RRT .7560 RRF .6296 RTF .9819
 SGB 3142.2 R23 -.2019 R13 .9762
 SG1 3104.1 SG2 487.5 THA 10.92

ORBIT DETERMINATION ACCURACY
 ST 2947.6 SR 658.6 SS 912.9
 CRT -.9774 CRS -.9627 CST -.9981
 LSA 3151.7 MSA 149.5 SSA 2.3
 EL1 3017.2 EL2 136.0 ALF 12.34

LAUNCH DATE MAR 6 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 6 1969

DISTANCE 362.160

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.903 GAL -8.37 AZL 118.54 HCA 172.94 SMA 131.43 ECC .19380 INC28.5431 V1 30.020
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.796 GAP 5.23 AZP 61.64 TAL 220.33 TAP 33.28 RCA 105.96 APO 156.90 V2 34.811
 RC 127.128 GL -60.98 GP 77.57 ZAL 107.38 ZAP 101.04 ETS 110.46 ZAE 84.56 ETE 188.99 ZAC 67.44 ETC 213.16 CLP 152.81

PLANETOCENTRIC CONIC
 C3 227.546 VHL 15.085 DLA -43.27 RAL 57.97 RAD 6571.3 VEL 18.678 PTH 3.06 VHP 18.566 DPA 54.64 RAP 290.17 ECC 4.7448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.80 6 38 20 2109.37 5.78 49.55 321.77 132.96 7 13 29 1509.4 11.20 44.01
 124.20 13 57 57 751.46 5.80 305.04 321.79 132.96 14 10 28 151.5 11.21 299.50
 55.80 6 38 20 2109.37 5.78 49.55 321.77 132.96 7 13 29 1509.4 11.20 44.01
 124.20 13 57 57 751.46 5.80 305.04 321.79 132.96 14 10 28 151.5 11.21 299.50
 55.80 6 38 20 2109.37 5.78 49.55 321.77 132.96 7 13 29 1509.4 11.20 44.01
 124.20 13 57 57 751.46 5.80 305.04 321.79 132.96 14 10 28 151.5 11.21 299.50

DIFFERENTIAL CORRECTIONS
 TDE-5.6765 TRA 1.7328 TC3 -.0731 BAU .2252
 RDE-5.7216 RRA .3458 RC3 .0114 FAU .00295
 FDE-1.6665 FRA .5254 FC3 -.0112 BSP 9966
 BDE 8.0597 BRA 1.7669 BC3 .0740 FSP -188

MID-COURSE EXECUTION ACCURACY
 SGT 2348.3 SGR 2181.0 SG3 59.7
 RRT .9453 RRF .9454 RTF .9989
 SGB 3204.9 R23 -.1493 R13 .9877
 SG1 3160.9 SG2 528.8 THA 42.76

ORBIT DETERMINATION ACCURACY
 ST 2173.1 SR 2173.9 SS 1023.9
 CRT .9950 CRS -.9946 CST -1.0000
 LSA 3235.7 MSA 162.8 SSA 1.5
 EL1 3069.9 EL2 154.1 ALF 45.01

LAUNCH DATE MAR 6 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 8 1969

DISTANCE 367.405

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.837 GAL -7.98 AZL 138.16 HCA 175.45 SMA 130.96 ECC .19163 INC48.1588 V1 30.020
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.754 GAP 5.27 AZP 41.93 TAL 218.45 TAP 33.91 RCA 105.86 APO 156.05 V2 34.818
 RC 129.481 GL -58.88 GP 69.58 ZAL 100.35 ZAP 96.88 ETS 152.18 ZAE 70.74 ETE 227.73 ZAC 55.53 ETC 252.96 CLP 110.09

PLANETOCENTRIC CONIC
 C3 575.562 VHL 23.991 DLA -38.11 RAL 67.82 RAD 6572.5 VEL 26.398 PTH 3.38 VHP 29.960 DPA 45.17 RAP 275.52 ECC10.4723
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.36 7 51 27 2113.03 1.09 45.85 336.41 128.09 8 26 40 1513.0 6.01 39.94
 116.64 14 3 25 944.26 1.11 317.49 336.42 128.09 14 19 10 344.3 6.03 311.59
 63.36 7 51 27 2113.03 1.09 45.85 336.41 128.09 8 26 40 1513.0 6.01 39.94
 116.64 14 3 25 944.26 1.11 317.49 336.42 128.09 14 19 10 344.3 6.03 311.59
 63.36 7 51 27 2113.03 1.09 45.85 336.41 128.09 8 26 40 1513.0 6.01 39.94
 116.64 14 3 25 944.26 1.11 317.49 336.42 128.09 14 19 10 344.3 6.03 311.59

DIFFERENTIAL CORRECTIONS
 TDE .0965 TRA 2.0530 TC3 -.0173 BAU 1.1316
 RD-11.4802 RRA 3.9803 RC3 .1460 FAU .01636
 FDE-2.0681 FRA .9687 FC3 .0246 BSP 9734
 BDE11.4806 BRA 4.4785 BC3 .1471 FSP -161

MID-COURSE EXECUTION ACCURACY
 SGT 629.1 SGR 3076.9 SG3 50.7
 RRT .3262 RRF .9926 RTF .4389
 SGB 3140.6 R23 -.1086 R13 .9941
 SG1 3084.0 SG2 593.3 THA 86.04

ORBIT DETERMINATION ACCURACY
 ST 188.4 SR 2765.7 SS 1298.7
 CRT .0087 CRS -.9990 CST -.0540
 LSA 3055.0 MSA 195.7 SSA .0
 EL1 2765.7 EL2 188.4 ALF 89.97

LAUNCH DATE MAR 6 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 27.772 GAL -8.73 AZL 2.31 MCA 183.40 SMA 130.49 ECC .20372 INC87.6838 V1 30.020
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.712 GAP 6.87 AZP 177.68 TAL 219.44 TAP 42.84 RCA 103.90 APO 157.07 V2 34.825
 RC 131.823 GL 43.13 GP -48.08 ZAL 96.67 ZAP 95.30 ETS 180.86 ZAE 53.11 ETE 110.49 ZAC 62.33 ETC 82.67 CLP 97.95

PLANETOCENTRIC CONIC

C31609.613 VHL 40.120 DLA 63.21 RAL 48.99 RAD 6573.2 VEL 41.604 PTH 3.57 VHP 50.278 DPA -71.03 RAP 248.25 ECC27.4901
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.80 16 44 23 5072.94 1.44 243.20 319.73 26.80 18 8 56 4472.9 -5.70 240.00
 149.20 2 40 17 3372.13 1.45 101.89 319.71 26.80 3 36 29 2772.1 -5.69 98.69
 30.80 16 44 23 5072.94 1.44 243.20 319.73 26.80 18 8 56 4472.9 -5.70 240.00
 149.20 2 40 17 3372.13 1.45 101.89 319.71 26.80 3 36 29 2772.1 -5.69 98.69
 30.80 16 44 23 5072.94 1.44 243.20 319.73 26.80 18 8 56 4472.9 -5.70 240.00
 149.20 2 40 17 3372.13 1.45 101.89 319.71 26.80 3 36 29 2772.1 -5.69 98.69

DIFFERENTIAL CORRECTIONS

TDE-5.1293 TRA 1.3114 TC3 -.0949 BAU 4.2031
 RDE-14.2109 RRA -.7704 RC3 -.1707 FAU-.06877
 FDE 3.2051 FRA .2076 FC3 .0370 BSP 8096
 BOE15.1083 BRA 1.5209 BC3 .1953 FSP -152

MID-COURSE EXECUTION ACCURACY

SGT 1135.3 SGR 2460.7 SG3 47.5
 RRT .8692 RRF -.9996 RTF -.8559
 SGB 2709.9 R23 -.1078 R13 -.9941
 SG1 2659.7 SG2 519.3 THA 67.23

ORBIT DETERMINATION ACCURACY

ST 743.4 SR 2031.2 SS 1990.5
 CRT .9791 CRS 1.0000 CST .9776
 LSA 2935.7 MSA 149.2 SSA .7
 EL1 2158.3 EL2 142.3 ALF 70.20

LAUNCH DATE MAR 6 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 27.706 GAL -8.08 AZL 44.27 MCA 184.74 SMA 130.02 ECC .19845 INC45.7290 V1 30.020
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.671 GAP 6.56 AZP 135.63 TAL 217.00 TAP 41.74 RCA 104.22 APO 155.82 V2 34.833
 RC 134.153 GL 59.22 GP -69.93 ZAL 100.93 ZAP 98.97 ETS 196.30 ZAE 76.88 ETE 122.29 ZAC 85.34 ETC 100.31 CLP 117.04

PLANETOCENTRIC CONIC

C3 522.736 VHL 22.863 DLA 72.15 RAL 6.68 RAD 6572.4 VEL 25.378 PTH 3.35 VHP 28.543 DPA -84.62 RAP 66.19 ECC 9.6029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 20.38 13 32 29 5048.25 -2.17 247.67 275.99 17.86 14 56 37 4448.3 -9.78 245.61
 159.62 0 14 37 3282.46 -2.16 95.04 275.97 17.86 1 9 20 2682.5 -9.77 92.97
 20.38 13 32 29 5048.25 -2.17 247.67 275.99 17.86 14 56 37 4448.3 -9.78 245.61
 159.62 0 14 37 3282.46 -2.16 95.04 275.97 17.86 1 9 20 2682.5 -9.77 92.97
 20.38 13 32 29 5048.25 -2.17 247.67 275.99 17.86 14 56 37 4448.3 -9.78 245.61
 159.62 0 14 37 3282.46 -2.16 95.04 275.97 17.86 1 9 20 2682.5 -9.77 92.97

DIFFERENTIAL CORRECTIONS

TDE 1.4467 TRA .6212 TC3 -.0376 BAU 1.0698
 RDE-9.1183 RRA 2.8246 RC3 -.1484 FAU-.01203
 FDE 1.8301 FRA -.4784 FC3 .0199 BSP 10323
 BOE 9.2323 BRA 2.8921 BC3 .1531 FSP -169

MID-COURSE EXECUTION ACCURACY

SGT 647.2 SGR 3318.7 SG3 52.7
 RRT .2146 RRF -.9950 RTF -.1216
 SGB 3381.2 R23 -.1023 R13 -.9942
 SG1 3321.7 SG2 631.6 THA 87.51

ORBIT DETERMINATION ACCURACY

ST 393.3 SR 2387.8 SS 1167.5
 CRT -.7697 CRS .9990 CST -.7970
 LSA 2675.1 MSA 251.2 SSA 1.5
 EL1 2407.1 EL2 249.1 ALF 97.30

LAUNCH DATE MAR 6 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 27.640 GAL -7.68 AZL 62.41 MCA 187.31 SMA 129.56 ECC .19662 INC27.5899 V1 30.020
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.630 GAP 6.61 AZP 117.40 TAL 215.12 TAP 42.43 RCA 104.09 APO 155.03 V2 34.841
 RC 136.471 GL 60.86 GP -74.52 ZAL 106.54 ZAP 104.40 ETS 243.56 ZAE 90.23 ETE 168.27 ZAC 97.33 ETC 147.96 CLP 158.70

PLANETOCENTRIC CONIC

C3 210.991 VHL 14.526 DLA 67.59 RAL 350.42 RAD 6571.2 VEL 18.229 PTH 3.02 VHP 18.038 DPA -70.66 RAP 57.85 ECC 4.4724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 25.66 12 38 58 4931.85 -8.52 242.47 256.89 22.67 14 1 10 4331.9 -15.89 239.69
 154.34 22 54 29 3194.88 -8.51 95.41 256.87 22.67 23 47 44 2594.9 -15.88 92.63
 25.66 12 38 58 4931.85 -8.52 242.47 256.89 22.67 14 1 10 4331.9 -15.89 239.69
 154.34 22 54 29 3194.88 -8.51 95.41 256.87 22.67 23 47 44 2594.9 -15.88 92.63
 25.66 12 38 58 4931.85 -8.52 242.47 256.89 22.67 14 1 10 4331.9 -15.89 239.69
 154.34 22 54 29 3194.88 -8.51 95.41 256.87 22.67 23 47 44 2594.9 -15.88 92.63

DIFFERENTIAL CORRECTIONS

TDE 3.4843 TRA-2.0438 TC3 -.0685 BAU .1936
 RDE-1.8062 RRA 2.4034 RC3 .0047 FAU .00807
 FDE .9976 FRA -.5938 FC3 -.0331 BSP 11154
 BOE 3.9246 BRA 3.1549 BC3 .0687 FSP -205

MID-COURSE EXECUTION ACCURACY

SGT 2529.8 SGR 2586.8 SG3 63.6
 RRT -.9536 RRF -.9505 RTF .9986
 SGB 3618.2 R23 -.1613 R13 -.9855
 SG1 3576.0 SG2 551.2 THA 134.33

ORBIT DETERMINATION ACCURACY

ST 1513.7 SR 1031.6 SS 677.2
 CRT -.9301 CRS .9322 CST-1.0000
 LSA 1925.7 MSA 325.4 SSA 1.7
 EL1 1804.0 EL2 317.8 ALF 146.45

LAUNCH DATE MAR 6 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 27.575 GAL -7.34 AZL 70.74 MCA 190.23 SMA 129.10 ECC .19581 INC19.2558 V1 30.020
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.590 GAP 6.75 AZP 108.97 TAL 213.38 TAP 43.61 RCA 103.83 APO 154.38 V2 34.850
 RC 138.775 GL 57.37 GP -69.74 ZAL 111.73 ZAP 110.20 ETS 207.17 ZAE 98.78 ETE 200.32 ZAC 104.64 ETC 181.12 CLP-175.69

PLANETOCENTRIC CONIC

C3 114.696 VHL 10.710 DLA 62.37 RAL 350.84 RAD 6570.2 VEL 15.363 PTH 2.75 VHP 13.265 DPA -60.95 RAP 53.09 ECC 2.8876
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.79 12 54 48 4801.93 -14.63 235.15 253.00 28.64 14 14 50 4201.9 -21.61 231.46
 148.21 22 42 1 3109.13 -14.62 95.00 252.98 28.64 23 33 50 2509.1 -21.60 91.30
 31.79 12 54 48 4801.93 -14.63 235.15 253.00 28.64 14 14 50 4201.9 -21.61 231.46
 148.21 22 42 1 3109.13 -14.62 95.00 252.98 28.64 23 33 50 2509.1 -21.60 91.30
 31.79 12 54 48 4801.93 -14.63 235.15 253.00 28.64 14 14 50 4201.9 -21.61 231.46
 148.21 22 42 1 3109.13 -14.62 95.00 252.98 28.64 23 33 50 2509.1 -21.60 91.30

DIFFERENTIAL CORRECTIONS

TDE 2.5901 TRA-2.8504 TC3 -.3627 BAU .5567
 RDE .2586 RRA .7460 RC3 .0159 FAU .01840
 FDE .8637 FRA -.6210 FC3 -.1389 BSP 11657
 BOE 2.6030 BRA 2.9464 BC3 .3631 FSP -254

MID-COURSE EXECUTION ACCURACY

SGT 3651.7 SGR 872.2 SG3 78.0
 RRT -.8364 RRF -.7145 RTF .9787
 SGB 3754.4 R23 -.2150 R13 -.9735
 SG1 3725.1 SG2 468.6 THA 168.52

ORBIT DETERMINATION ACCURACY

ST 1701.1 SR 292.9 SS 584.2
 CRT -.1264 CRS -.0565 CST -.9832
 LSA 1796.1 MSA 308.1 SSA 2.3
 EL1 1701.5 EL2 290.5 ALF 178.72

LAUNCH DATE MAR 6 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.510 GAL -7.02 AZL 75.36 HCA 193.26 SMA 128.66 ECC .19541 INC14.6405 V1 30.020
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.551 GAP 6.91 AZP 104.27 TAL 211.69 TAP 44.95 RCA 103.52 APO 153.80 V2 34.860
 RC 141.067 GL 52.80 GP -63.31 ZAL 116.05 ZAP 115.85 ETS 289.06 ZAE 105.13 ETE 210.12 ZAC 110.08 ETC 191.96 CLP-166.16

PLANETOCENTRIC CONIC
 C3 75.057 VHL 8.664 DLA 57.80 RAL 354.52 RAD 6569.5 VEL 14.015 PTH 2.56 VHP 10.766 DPA -52.98 RAP 49.96 ECC 2.2353
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.25 13 23 16 4683.84 -19.21 227.37 251.86 34.36 14 41 20 4083.8 -25.74 222.79
 142.75 22 42 55 3041.73 -19.20 93.92 251.84 34.35 23 33 36 2441.7 -25.73 89.34
 37.25 13 23 16 4683.84 -19.21 227.37 251.86 34.36 14 41 20 4083.8 -25.74 222.79
 142.75 22 42 55 3041.73 -19.20 93.92 251.84 34.35 23 33 36 2441.7 -25.73 89.34
 37.25 13 23 16 4683.84 -19.21 227.37 251.86 34.36 14 41 20 4083.8 -25.74 222.79
 142.75 22 42 55 3041.73 -19.20 93.92 251.84 34.35 23 33 36 2441.7 -25.73 89.34

MID-COURSE EXECUTION ACCURACY
 SGT 3838.8 SGR 442.1 SG3 94.1
 RRT -.0899 RRF .1712 RTF .9601
 SGB 3864.2 R23 -.2597 R13 -.9598
 SG1 3839.0 SG2 440.3 THA 179.40

ORBIT DETERMINATION ACCURACY
 ST 1671.3 SR 371.6 SS 565.2
 CRT .6710 CRS -.8382 CST -.9668
 LSA 1778.0 MSA 299.5 SSA 3.1
 EL1 1690.3 EL2 272.4 ALF 8.71

DIFFERENTIAL CORRECTIONS
 TDE 2.0102 TRA-2.7186 TC3 -.7269 BAU .7318
 RDE .5524 RRA .1831 RC3 -.0588 FAU .02610
 FDE .8489 FRA -.6235 FC3 -.3010 BSP 12080
 BDE 2.0848 BRA 2.7248 BC3 .7293 FSP -309

LAUNCH DATE MAR 6 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.445 GAL -6.70 AZL 78.27 HCA 196.35 SMA 128.21 ECC .19525 INC11.7297 V1 30.020
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.513 GAP 7.10 AZP 101.27 TAL 210.00 TAP 46.35 RCA 103.18 APO 153.25 V2 34.870
 RC 143.344 GL 48.30 GP -57.16 ZAL 119.42 ZAP 121.13 ETS 294.28 ZAE 110.12 ETE 212.79 ZAC 114.54 ETC 195.72 CLP-162.44

PLANETOCENTRIC CONIC
 C3 55.076 VHL 7.421 DLA 53.88 RAL 358.65 RAD 6569.0 VEL 13.283 PTH 2.43 VHP 9.316 DPA -46.06 RAP 48.01 ECC 1.9064
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.03 13 52 57 4582.11 -22.25 219.80 251.30 39.56 15 9 19 3982.1 -28.31 214.44
 137.97 22 46 9 2994.75 -22.23 92.74 251.28 39.55 23 36 4 2394.7 -28.29 87.39
 42.03 13 52 57 4582.11 -22.25 219.80 251.30 39.56 15 9 19 3982.1 -28.31 214.44
 137.97 22 46 9 2994.75 -22.23 92.74 251.28 39.55 23 36 4 2394.7 -28.29 87.39
 42.03 13 52 57 4582.11 -22.25 219.80 251.30 39.56 15 9 19 3982.1 -28.31 214.44
 137.97 22 46 9 2994.75 -22.23 92.74 251.28 39.55 23 36 4 2394.7 -28.29 87.39

MID-COURSE EXECUTION ACCURACY
 SGT 3934.3 SGR 471.8 SG3 109.9
 RRT .4564 RRF .6957 RTF .9451
 SGB 3962.4 R23 .2916 R13 .9468
 SG1 3940.2 SG2 419.2 THA 3.17

ORBIT DETERMINATION ACCURACY
 ST 1648.6 SR 427.8 SS 557.4
 CRT .7913 CRS -.9360 CST -.9558
 LSA 1768.2 MSA 291.6 SSA 4.0
 EL1 1683.8 EL2 256.1 ALF 11.88

DIFFERENTIAL CORRECTIONS
 TDE 1.7010 TRA-2.5329 TC3 -1.1166 BAU .8280
 RDE .5541 RRA .0101 RC3 -.1338 FAU .03230
 FDE .8421 FRA -.6040 FC3 -.5078 BSP 12421
 BDE 1.7890 BRA 2.5329 BC3 1.1245 FSP -363

LAUNCH DATE MAR 6 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.381 GAL -6.38 AZL 80.27 HCA 199.47 SMA 127.78 ECC .19528 INC 9.7254 V1 30.020
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.476 GAP 7.28 AZP 99.18 TAL 208.31 TAP 47.78 RCA 102.82 APO 152.73 V2 34.880
 RC 145.608 GL 44.18 GP -51.63 ZAL 121.91 ZAP 125.94 ETS 297.23 ZAE 114.10 ETE 212.92 ZAC 118.39 ETC 196.96 CLP-160.99

PLANETOCENTRIC CONIC
 C3 43.503 VHL 6.596 DLA 50.56 RAL 2.64 RAD 6568.7 VEL 12.840 PTH 2.34 VHP 8.421 DPA -39.96 RAP 46.91 ECC 1.7160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.19 14 21 27 4494.84 -24.13 212.76 251.04 44.11 15 36 22 3894.8 -29.73 206.77
 133.81 22 49 30 2964.28 -24.11 91.78 251.03 44.10 23 38 55 2364.3 -29.72 85.79
 46.19 14 21 27 4494.84 -24.13 212.76 251.04 44.11 15 36 22 3894.8 -29.73 206.77
 133.81 22 49 30 2964.28 -24.11 91.78 251.03 44.10 23 38 55 2364.3 -29.72 85.79
 46.19 14 21 27 4494.84 -24.13 212.76 251.04 44.11 15 36 22 3894.8 -29.73 206.77
 133.81 22 49 30 2964.28 -24.11 91.78 251.03 44.10 23 38 55 2364.3 -29.72 85.79

MID-COURSE EXECUTION ACCURACY
 SGT 4021.2 SGR 511.6 SG3 123.9
 RRT .6198 RRF .8289 RTF .9326
 SGB 4053.6 R23 .3123 R13 .9351
 SG1 4033.8 SG2 400.2 THA 4.55

ORBIT DETERMINATION ACCURACY
 ST 1629.5 SR 441.1 SS 548.0
 CRT .8266 CRS -.9632 CST -.9474
 LSA 1751.8 MSA 285.2 SSA 5.1
 EL1 1670.7 EL2 242.1 ALF 12.89

DIFFERENTIAL CORRECTIONS
 TDE 1.5056 TRA-2.3646 TC3 -1.5168 BAU .8892
 RDE .5073 RRA -.0436 RC3 -.1917 FAU .03712
 FDE .8246 FRA -.5632 FC3 -.7388 BSP 12680
 BDE 1.5888 BRA 2.3650 BC3 1.5289 FSP -407

LAUNCH DATE MAR 6 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC
 RL 148.42 LAL .00 LOL 165.25 VL 27.317 GAL -6.06 AZL 81.74 HCA 202.60 SMA 127.35 ECC .19548 INC 8.2567 V1 30.020
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.439 GAP 7.48 AZP 97.63 TAL 206.61 TAP 49.21 RCA 102.45 APO 152.24 V2 34.891
 RC 147.857 GL 40.49 GP -46.76 ZAL 123.60 ZAP 130.25 ETS 299.22 ZAE 117.29 ETE 211.98 ZAC 121.82 ETC 197.14 CLP-160.58

PLANETOCENTRIC CONIC
 C3 36.098 VHL 6.008 DLA 47.76 RAL 6.42 RAD 6568.4 VEL 12.549 PTH 2.27 VHP 7.847 DPA -34.57 RAP 46.44 ECC 1.5941
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.79 14 48 27 4419.03 -25.24 206.36 251.10 48.00 16 2 6 3819.0 -30.43 199.89
 130.21 22 52 41 2945.86 -25.22 91.12 251.09 48.00 23 41 47 2345.9 -30.42 84.65
 49.79 14 48 27 4419.03 -25.24 206.36 251.10 48.00 16 2 6 3819.0 -30.43 199.89
 130.21 22 52 41 2945.86 -25.22 91.12 251.09 48.00 23 41 47 2345.9 -30.42 84.65
 49.79 14 48 27 4419.03 -25.24 206.36 251.10 48.00 16 2 6 3819.0 -30.43 199.89
 130.21 22 52 41 2945.86 -25.22 91.12 251.09 48.00 23 41 47 2345.9 -30.42 84.65

MID-COURSE EXECUTION ACCURACY
 SGT 4116.2 SGR 524.6 SG3 136.0
 RRT .6832 RRF .8705 RTF .9229
 SGB 4149.5 R23 .3212 R13 .9255
 SG1 4131.9 SG2 381.7 THA 5.02

ORBIT DETERMINATION ACCURACY
 ST 1606.8 SR 436.1 SS 532.9
 CRT .8408 CRS -.9749 CST -.9400
 LSA 1725.7 MSA 279.0 SSA 6.3
 EL1 1649.0 EL2 230.0 ALF 13.12

DIFFERENTIAL CORRECTIONS
 TDE 1.3615 TRA-2.2182 TC3 -1.9260 BAU .9363
 RDE .4565 RRA -.0583 RC3 -.2338 FAU .04083
 FDE .7913 FRA -.5099 FC3 -.9793 BSP 13056
 BDE 1.4360 BRA 2.2189 BC3 1.9401 FSP -451

LAUNCH DATE MAR 6 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 421.930

RL 148.42 LAL .00 LOL 165.25 VL 27.253 GAL -5.72 AZL 82.87 MCA 205.75 SMA 126.93 ECC .19583 INC 7.1294 VI 30.020
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.404 GAP 7.67 AZP 96.43 TAL 204.90 TAP 50.65 RCA 102.07 APO 151.78 V2 34.902
 RC 150.092 GL 37.20 GP -42.51 ZAL 124.61 ZAP 134.08 ETS 300.72 ZAE 119.85 ETE 210.58 ZAC 124.95 ETC 196.84 CLP-160.69

PLANETOCENTRIC CONIC

C3 30.991 VHL 5.567 DLA 45.40 RAL 10.03 RAD 6568.2 VEL 12.344 PTH 2.23 VHP 7.473 DPA -29.80 RAP 46.45 ECC 1.5100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.90 15 14 3 4352.19 -25.86 200.61 251.49 51.29 16 26 36 3752.2 -30.68 193.78
 127.10 22 55 52 2935.79 -25.85 90.75 251.48 51.28 23 44 48 2335.8 -30.67 83.92
 52.90 15 14 3 4352.19 -25.86 200.61 251.49 51.29 16 26 36 3752.2 -30.68 193.78
 127.10 22 55 52 2935.79 -25.85 90.75 251.48 51.28 23 44 48 2335.8 -30.67 83.92
 52.90 15 14 3 4352.19 -25.86 200.61 251.49 51.29 16 26 36 3752.2 -30.68 193.78
 127.10 22 55 52 2935.79 -25.85 90.75 251.48 51.28 23 44 48 2335.8 -30.67 83.92

DIFFERENTIAL CORRECTIONS

TDE 1.2432 TRA-2.0909 TC3-2.3489 BAU .9794
 RDE .4105 RRA -.0611 RC3 -.2655 FAU .04377
 FDE .7420 FRA -.4532 FC3-1.2227 BSP 13647
 BDE 1.3092 BRA 2.0918 BC3 2.3639 FSP -501

MID-COURSE EXECUTION ACCURACY

SGT 4227.2 SGR 523.4 SG3 146.6
 RRT .7179 RRF .8837 RTF .9167
 SGB 4259.5 R23 .3171 R13 .9191
 SG1 4244.0 SG2 362.9 TMA 5.12

ORBIT DETERMINATION ACCURACY

ST 1577.5 SR 423.5 SS 510.3
 CRT .8473 CRS -.9812 CST -.9333
 LSA 1689.5 MSA 271.9 SSA 7.7
 EL1 1618.6 EL2 219.2 ALF 13.06

LAUNCH DATE MAR 6 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 427.722

RL 148.42 LAL .00 LOL 165.25 VL 27.190 GAL -5.39 AZL 83.77 MCA 208.91 SMA 126.51 ECC .19632 INC 6.2326 VI 30.020
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.369 GAP 7.87 AZP 95.46 TAL 203.17 TAP 52.08 RCA 101.67 APO 151.35 V2 34.914
 RC 152.312 GL 34.26 GP -38.83 ZAL 125.01 ZAP 137.47 ETS 301.92 ZAE 121.89 ETE 209.00 ZAC 127.85 ETC 196.33 CLP-161.09

PLANETOCENTRIC CONIC

C3 27.258 VHL 5.221 DLA 43.41 RAL 13.53 RAD 6568.1 VEL 12.192 PTH 2.19 VHP 7.228 DPA -25.57 RAP 46.83 ECC 1.4486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.61 15 38 28 4292.59 -26.20 195.47 252.21 54.06 16 50 0 3692.6 -30.69 188.36
 124.39 22 59 22 2931.21 -26.18 90.62 252.20 54.05 23 48 13 2331.2 -30.68 83.51
 55.61 15 38 28 4292.59 -26.20 195.47 252.21 54.06 16 50 0 3692.6 -30.69 188.36
 124.39 22 59 22 2931.21 -26.18 90.62 252.20 54.05 23 48 13 2331.2 -30.68 83.51
 55.61 15 38 28 4292.59 -26.20 195.47 252.21 54.06 16 50 0 3692.6 -30.69 188.36
 124.39 22 59 22 2931.21 -26.18 90.62 252.20 54.05 23 48 13 2331.2 -30.68 83.51

DIFFERENTIAL CORRECTIONS

TDE 1.1871 TRA-1.9311 TC3-2.7214 BAU .9966
 RDE .3837 RRA -.0475 RC3 -.2712 FAU .04438
 FDE .7164 FRA -.3603 FC3-1.4094 BSP 13315
 BDE 1.2475 BRA 1.9317 BC3 2.7349 FSP -483

MID-COURSE EXECUTION ACCURACY

SGT 4275.9 SGR 512.5 SG3 151.6
 RRT .7131 RRF .8748 RTF .9053
 SGB 4306.5 R23 .3205 R13 .9077
 SG1 4291.5 SG2 358.0 TMA 4.92

ORBIT DETERMINATION ACCURACY

ST 1571.7 SR 421.7 SS 502.3
 CRT .8571 CRS -.9876 CST -.9263
 LSA 1681.5 MSA 269.8 SSA 9.1
 EL1 1613.5 EL2 211.6 ALF 13.18

LAUNCH DATE MAR 6 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 433.507

RL 148.42 LAL .00 LOL 165.25 VL 27.128 GAL -5.04 AZL 84.50 MCA 212.07 SMA 126.10 ECC .19696 INC 5.4983 VI 30.020
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.334 GAP 8.07 AZP 94.66 TAL 201.44 TAP 53.51 RCA 101.27 APO 150.94 V2 34.926
 RC 154.516 GL 31.61 GP -35.63 ZAL 124.88 ZAP 140.49 ETS 302.89 ZAE 123.53 ETE 207.39 ZAC 130.59 ETC 195.72 CLP-161.66

PLANETOCENTRIC CONIC

C3 24.410 VHL 4.941 DLA 41.73 RAL 16.97 RAD 6568.0 VEL 12.074 PTH 2.16 VHP 7.073 DPA -21.80 RAP 47.50 ECC 1.4017
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.96 16 1 55 4238.93 -26.35 190.85 253.25 56.39 17 12 34 3638.9 -30.57 183.54
 122.04 23 3 22 2930.31 -26.34 90.66 253.24 56.38 23 52 13 2330.3 -30.56 83.34
 57.96 16 1 55 4238.93 -26.35 190.85 253.25 56.39 17 12 34 3638.9 -30.57 183.54
 122.04 23 3 22 2930.31 -26.34 90.66 253.24 56.38 23 52 13 2330.3 -30.56 83.34
 57.96 16 1 55 4238.93 -26.35 190.85 253.25 56.39 17 12 34 3638.9 -30.57 183.54
 122.04 23 3 22 2930.31 -26.34 90.66 253.24 56.38 23 52 13 2330.3 -30.56 83.34

DIFFERENTIAL CORRECTIONS

TDE 1.1210 TRA-1.8001 TC3-3.1297 BAU 1.0255
 RDE .3568 RRA -.0410 RC3 -.2807 FAU .04519
 FDE .6685 FRA -.2859 FC3-1.6027 BSP 13652
 BDE 1.1764 BRA 1.8005 BC3 3.1423 FSP -503

MID-COURSE EXECUTION ACCURACY

SGT 4368.0 SGR 502.2 SG3 157.1
 RRT .7174 RRF .8633 RTF .9000
 SGB 4396.7 R23 .3064 R13 .9020
 SG1 4382.9 SG2 348.7 TMA 4.75

ORBIT DETERMINATION ACCURACY

ST 1550.1 SR 414.3 SS 481.6
 CRT .8637 CRS -.9915 CST -.9202
 LSA 1654.3 MSA 263.8 SSA 10.6
 EL1 1591.6 EL2 203.4 ALF 13.22

LAUNCH DATE MAR 6 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 439.287

RL 148.42 LAL .00 LOL 165.25 VL 27.066 GAL -4.68 AZL 85.12 MCA 215.24 SMA 125.70 ECC .19776 INC 4.8827 VI 30.020
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.301 GAP 8.27 AZP 93.99 TAL 199.70 TAP 54.94 RCA 100.84 APO 150.56 V2 34.938
 RC 156.704 GL 29.19 GP -32.85 ZAL 124.30 ZAP 143.17 ETS 303.68 ZAE 124.86 ETE 205.83 ZAC 133.22 ETC 195.09 CLP-162.32

PLANETOCENTRIC CONIC

C3 22.161 VHL 4.708 DLA 40.31 RAL 20.41 RAD 6567.9 VEL 11.981 PTH 2.14 VHP 6.981 DPA -18.43 RAP 48.41 ECC 1.3647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.02 16 24 42 4190.16 -26.41 186.70 254.60 58.36 17 34 32 3590.2 -30.39 179.22
 119.98 23 8 1 2931.93 -26.39 90.84 254.59 58.35 23 56 53 2331.9 -30.37 83.36
 60.02 16 24 42 4190.16 -26.41 186.70 254.60 58.36 17 34 32 3590.2 -30.39 179.22
 119.98 23 8 1 2931.93 -26.39 90.84 254.59 58.35 23 56 53 2331.9 -30.37 83.36
 60.02 16 24 42 4190.16 -26.41 186.70 254.60 58.36 17 34 32 3590.2 -30.39 179.22
 119.98 23 8 1 2931.93 -26.39 90.84 254.59 58.35 23 56 53 2331.9 -30.37 83.36

DIFFERENTIAL CORRECTIONS

TDE 1.0671 TRA-1.6692 TC3-3.5410 BAU 1.0525
 RDE .3359 RRA -.0345 RC3 -.2862 FAU .04544
 FDE .6195 FRA -.2121 FC3-1.7750 BSP 14021
 BDE 1.1187 BRA 1.6696 BC3 3.5526 FSP -520

MID-COURSE EXECUTION ACCURACY

SGT 4460.9 SGR 492.8 SG3 161.1
 RRT .7171 RRF .8460 RTF .8961
 SGB 4488.0 R23 .2865 R13 .8979
 SG1 4475.0 SG2 342.4 TMA 4.56

ORBIT DETERMINATION ACCURACY

ST 1528.2 SR 409.3 SS 459.8
 CRT .8714 CRS -.9946 CST -.9144
 LSA 1627.3 MSA 257.1 SSA 12.4
 EL1 1570.0 EL2 195.5 ALF 13.35

LAUNCH DATE MAR 6 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 445.062

RL 148.42 LAL .00 LOL 165.25 VL 27.005 GAL -4.32 AZL 85.64 HCA 218.42 SMA 125.31 ECC .19872 INC 4.3563 VI 30.020
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.269 GAP 8.48 AZP 93.42 TAL 197.94 TAP 56.36 RCA 100.41 APO 150.21 V2 34.951
 RC 158.875 GL 26.97 GP -30.42 ZAL 123.30 ZAP 145.57 ETS 304.31 ZAE 125.94 ETE 204.36 ZAC 135.76 ETC 194.47 CLP-163.05

PLANETOCENTRIC CONIC

C3 20.340 VHL 4.510 CLA 39.09 RAL 23.88 RAD 6567.8 VEL 11.905 PTH 2.12 VHP 6.934 DPA -15.40 RAP 49.52 ECC 1.3347
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.84 16 46 59 4145.65 -26.40 182.94 256.24 60.05 17 56 4 3545.6 -30.17 175.34
 118.16 23 13 27 2935.18 -26.39 91.11 256.24 60.04 24 2 22 2335.2 -30.16 83.51
 61.84 16 46 59 4145.65 -26.40 182.94 256.24 60.05 17 56 4 3545.6 -30.17 175.34
 118.16 23 13 27 2935.18 -26.39 91.11 256.24 60.04 24 2 22 2335.2 -30.16 83.51
 61.84 16 46 59 4145.65 -26.40 182.94 256.24 60.05 17 56 4 3545.6 -30.17 175.34
 118.16 23 13 27 2935.18 -26.39 91.11 256.24 60.04 24 2 22 2335.2 -30.16 83.51

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0261 TRA-1.5328 TC3-3.9488 BAU 1.0766 SGT 4547.7 SGR 485.2 SG3 163.5 ST 1509.1 SR 407.6 SS 439.6
 RDE .3206 RRA -.0276 RC3 -.2880 FAU .04511 RRT .7113 RRF .8243 RTF .8926 CRT .8811 CRS -.9969 CST -.9088
 FDE .5736 FRA -.1370 FC3-1.9203 BSP 14315 SGB 4573.5 R23 .2643 R13 .8941 LSA 1604.4 MSA 250.0 SSA 14.3
 BDE 1.0751 BRA 1.5331 BC3 3.9593 FSP -528 SG1 4560.8 SG2 340.0 THA 4.36 EL1 1551.9 EL2 187.4 ALF 13.59

LAUNCH DATE MAR 6 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 450.828

RL 148.42 LAL .00 LOL 165.25 VL 26.944 GAL -3.94 AZL 86.10 HCA 221.60 SMA 124.93 ECC .19983 INC 3.8984 VI 30.020
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.237 GAP 8.69 AZP 92.92 TAL 196.18 TAP 57.77 RCA 99.96 APO 149.89 V2 34.964
 RC 161.027 GL 24.90 GP -28.30 ZAL 121.93 ZAP 147.73 ETS 304.77 ZAE 126.83 ETE 203.00 ZAC 138.25 ETC 193.88 CLP-163.80

PLANETOCENTRIC CONIC

C3 18.838 VHL 4.340 DLA 38.04 RAL 27.43 RAD 6567.8 VEL 11.841 PTH 2.10 VHP 6.923 DPA -12.67 RAP 50.80 ECC 1.3100
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.46 17 9 0 4104.74 -26.35 179.52 258.17 61.51 18 17 25 3504.7 -29.94 171.82
 116.54 23 19 41 2939.73 -26.34 91.45 258.17 61.49 24 8 41 2339.7 -29.92 83.76
 63.46 17 9 0 4104.74 -26.35 179.52 258.17 61.51 18 17 25 3504.7 -29.94 171.82
 116.54 23 19 41 2939.73 -26.34 91.45 258.17 61.49 24 8 41 2339.7 -29.92 83.76
 63.46 17 9 0 4104.74 -26.35 179.52 258.17 61.51 18 17 25 3504.7 -29.94 171.82
 116.54 23 19 41 2939.73 -26.34 91.45 258.17 61.49 24 8 41 2339.7 -29.92 83.76

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9930 TRA-1.3917 TC3-4.3551 BAU 1.0992 SGT 4631.6 SGR 479.9 SG3 164.9 ST 1490.3 SR 408.2 SS 419.7
 RDE .3091 RRA -.0208 RC3 -.2883 FAU .04442 RRT .7029 RRF .7998 RTF .8899 CRT .8926 CRS -.9982 CST -.9033
 FDE .5295 FRA -.0635 FC3-2.0416 BSP 14603 SGB 4656.4 R23 .2403 R13 .8912 LSA 1582.7 MSA 242.0 SSA 16.3
 BDE 1.0400 BRA 1.3918 BC3 4.3646 FSP -532 SG1 4643.9 SG2 340.5 THA 4.19 EL1 1534.8 EL2 178.7 ALF 13.93

LAUNCH DATE MAR 6 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 456.587

RL 148.42 LAL .00 LOL 165.25 VL 26.884 GAL -3.56 AZL 86.51 HCA 224.78 SMA 124.55 ECC .20112 INC 3.4942 VI 30.020
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.206 GAP 8.90 AZP 92.48 TAL 194.40 TAP 59.18 RCA 99.50 APO 149.60 V2 34.977
 RC 163.161 GL 22.95 GP -26.43 ZAL 120.21 ZAP 149.68 ETS 305.08 ZAE 127.56 ETE 201.76 ZAC 140.69 ETC 193.32 CLP-164.58

PLANETOCENTRIC CONIC

C3 17.588 VHL 4.194 DLA 37.12 RAL 31.07 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 6.938 DPA -10.19 RAP 52.22 ECC 1.2894
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.93 17 31 1 4066.85 -26.27 176.37 260.39 62.77 18 38 47 3466.8 -29.69 168.60
 115.07 23 26 44 2945.51 -26.25 91.88 260.38 62.76 24 15 49 2345.5 -29.68 84.10
 64.93 17 31 1 4066.85 -26.27 176.37 260.39 62.77 18 38 47 3466.8 -29.69 168.60
 115.07 23 26 44 2945.51 -26.25 91.88 260.38 62.76 24 15 49 2345.5 -29.68 84.10
 64.93 17 31 1 4066.85 -26.27 176.37 260.39 62.77 18 38 47 3466.8 -29.69 168.60
 115.07 23 26 44 2945.51 -26.25 91.88 260.38 62.76 24 15 49 2345.5 -29.68 84.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9684 TRA-1.2417 TC3-4.7493 BAU 1.1187 SGT 4705.8 SGR 476.9 SG3 165.0 ST 1473.8 SR 411.4 SS 402.0
 RDE .3010 RRA -.0134 RC3 -.2865 FAU .04333 RRT .6909 RRF .7734 RTF .8872 CRT .9061 CRS -.9977 CST -.8979
 FDE .4892 FRA .0101 FC3-2.1328 BSP 14801 SGB 4729.9 R23 .2174 R13 .8883 LSA 1564.7 MSA 233.1 SSA 18.5
 BDE 1.0141 BRA 1.2417 BC3 4.7579 FSP -528 SG1 4717.4 SG2 343.9 THA 4.03 EL1 1520.8 EL2 168.6 ALF 14.37

LAUNCH DATE MAR 6 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 462.337

RL 148.42 LAL .00 LOL 165.25 VL 26.825 GAL -3.16 AZL 86.87 HCA 227.96 SMA 124.18 ECC .20259 INC 3.1326 VI 30.020
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.175 GAP 9.12 AZP 92.10 TAL 192.62 TAP 60.59 RCA 99.02 APO 149.33 V2 34.990
 RC 165.276 GL 21.09 GP -24.79 ZAL 118.19 ZAP 151.45 ETS 305.23 ZAE 128.18 ETE 200.62 ZAC 143.11 ETC 192.80 CLP-165.37

PLANETOCENTRIC CONIC

C3 16.542 VHL 4.067 DLA 36.29 RAL 34.83 RAD 6567.7 VEL 11.744 PTH 2.07 VHP 6.975 DPA -7.93 RAP 53.76 ECC 1.2722
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.29 17 53 14 4031.37 -26.15 173.44 262.88 63.89 19 0 25 3431.4 -29.43 165.61
 113.71 23 34 29 2952.74 -26.14 92.39 262.87 63.88 24 23 42 2352.7 -29.42 84.56
 66.29 17 53 14 4031.37 -26.15 173.44 262.88 63.89 19 0 25 3431.4 -29.43 165.61
 113.71 23 34 29 2952.74 -26.14 92.39 262.87 63.88 24 23 42 2352.7 -29.42 84.56
 66.29 17 53 14 4031.37 -26.15 173.44 262.88 63.89 19 0 25 3431.4 -29.43 165.61
 113.71 23 34 29 2952.74 -26.14 92.39 262.87 63.88 24 23 42 2352.7 -29.42 84.56

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9429 TRA-1.0888 TC3-5.1430 BAU 1.1392 SGT 4784.1 SGR 475.8 SG3 164.8 ST 1451.2 SR 414.8 SS 382.0
 RDE .2944 RRA -.0065 RC3 -.2863 FAU .04216 RRT .6796 RRF .7470 RTF .8861 CRT .9198 CRS -.9950 CST -.8919
 FDE .4474 FRA .0784 FC3-2.2066 BSP 15081 SGB 4807.7 R23 .1930 R13 .8871 LSA 1540.7 MSA 222.8 SSA 21.1
 BDE .9878 BRA 1.0889 BC3 5.1509 FSP -528 SG1 4795.1 SG2 348.2 THA 3.89 EL1 1501.1 EL2 157.3 ALF 14.90

LAUNCH DATE MAR 6 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 468.076

RL 148.42 LAL .00 LOL 165.25 VL 26.767 GAL -2.75 AZL 87.19 HCA 231.15 SMA 123.81 ECC .20424 INC 2.8053 V1 30.020
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.145 GAP 9.34 AZP 91.76 TAL 190.84 TAP 61.99 RCA 98.53 APO 149.10 V2 35.003
 RC 167.370 GL 19.30 GP -23.34 ZAL 115.87 ZAP 153.06 ETS 305.23 ZAE 128.70 ETE 199.60 ZAC 145.52 ETC 192.30 CLP-166.16

PLANETOCENTRIC CONIC

C3 15.672 VHL 3.959 CLA 35.52 RAL 38.72 RAD 6567.6 VEL 11.707 PTH 2.06 VHP 7.030 OPA -5.86 RAP 55.41 ECC 1.2579
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.60 18 15 56 3997.66 -25.99 170.67 265.65 64.89 19 22 33 3397.7 -29.15 162.79
 112.40 23 42 50 2961.86 -25.98 93.04 265.65 64.88 24 32 12 2361.9 -29.14 85.16
 67.60 18 15 56 3997.66 -25.99 170.67 265.65 64.89 19 22 33 3397.7 -29.15 162.79
 112.40 23 42 50 2961.86 -25.98 93.04 265.65 64.88 24 32 12 2361.9 -29.14 85.16
 67.60 18 15 56 3997.66 -25.99 170.67 265.65 64.89 19 22 33 3397.7 -29.15 162.79
 112.40 23 42 50 2961.86 -25.98 93.04 265.65 64.88 24 32 12 2361.9 -29.14 85.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9180 TRA -.9293 TC3-5.5233 BAU 1.1588 SGT 4860.1 SGR 476.4 SG3 164.1 ST 1424.1 SR 419.1 SS 361.9
 RDE .2895 RRA .0007 RC3 -.2864 FAU .04086 RRT .6678 RRF .7209 RTF .8858 CRT .9340 CRS -.9890 CST -.8848
 FDE .4065 FRA .1438 FC3-2.2571 BSP 15360 SGB 4883.4 R23 .1695 R13 .8866 LSA 1513.1 MSA 211.4 SSA 24.1
 BDE .9625 BRA .9293 BC3 5.5307 FSP -527 SG1 4870.5 SG2 353.9 THA 3.77 EL1 1477.4 EL2 144.3 ALF 15.52

LAUNCH DATE MAR 6 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 473.804

RL 148.42 LAL .00 LOL 165.25 VL 26.709 GAL -2.33 AZL 87.49 HCA 234.35 SMA 123.46 ECC .20609 INC 2.5060 V1 30.020
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.116 GAP 9.58 AZP 91.46 TAL 189.04 TAP 63.39 RCA 98.01 APO 148.90 V2 35.016
 RC 169.445 GL 17.56 GP -22.05 ZAL 113.28 ZAP 154.54 ETS 305.08 ZAE 129.15 ETE 198.67 ZAC 147.91 ETC 191.83 CLP-166.95

PLANETOCENTRIC CONIC

C3 14.958 VHL 3.868 CLA 34.79 RAL 42.74 RAD 6567.6 VEL 11.677 PTH 2.05 VHP 7.101 OPA -3.97 RAP 57.16 ECC 1.2462
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.89 18 39 23 3964.95 -25.79 167.97 268.70 65.79 19 45 28 3364.9 -28.83 160.06
 111.11 23 51 31 2973.59 -25.77 93.86 268.70 65.78 24 41 5 2373.6 -28.82 85.95
 68.89 18 39 23 3964.95 -25.79 167.97 268.70 65.79 19 45 28 3364.9 -28.83 160.06
 111.11 23 51 31 2973.59 -25.77 93.86 268.70 65.78 24 41 5 2373.6 -28.82 85.95
 68.89 18 39 23 3964.95 -25.79 167.97 268.70 65.79 19 45 28 3364.9 -28.83 160.06
 111.11 23 51 31 2973.59 -25.77 93.86 268.70 65.78 24 41 5 2373.6 -28.82 85.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8917 TRA -.7618 TC3-5.8801 BAU 1.1773 SGT 4931.6 SGR 478.2 SG3 162.8 ST 1390.6 SR 423.6 SS 341.5
 RDE .2859 RRA .0086 RC3 -.2863 FAU .03942 RRT .6353 RRF .6954 RTF .8860 CRT .9481 CRS -.9784 CST -.8758
 FDE .3663 FRA .2070 FC3-2.2816 BSP 15612 SGB 4954.7 R23 .1479 R13 .8867 LSA 1479.7 MSA 199.1 SSA 27.6
 BDE .9364 BRA .7618 BC3 5.8871 FSP -523 SG1 4941.6 SG2 360.5 THA 3.66 EL1 1447.9 EL2 129.4 ALF 16.24

LAUNCH DATE MAR 6 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 479.520

RL 148.42 LAL .00 LOL 165.25 VL 26.652 GAL -1.89 AZL 87.77 HCA 237.54 SMA 123.11 ECC .20815 INC 2.2295 V1 30.020
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.088 GAP 9.81 AZP 91.20 TAL 187.24 TAP 64.79 RCA 97.48 APO 148.73 V2 35.030
 RC 171.498 GL 15.85 GP -20.90 ZAL 110.43 ZAP 155.90 ETS 304.77 ZAE 129.54 ETE 197.84 ZAC 150.31 ETC 191.38 CLP-167.73

PLANETOCENTRIC CONIC

C3 14.387 VHL 3.793 CLA 34.06 RAL 46.91 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 7.185 OPA -2.22 RAP 58.99 ECC 1.2368
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.22 19 3 54 3932.32 -25.52 165.28 272.02 66.63 20 9 27 3332.3 -28.45 157.35
 109.78 0 4 12 2988.90 -25.50 94.93 272.02 66.61 0 54 1 2388.9 -28.44 86.99
 70.22 19 3 54 3932.32 -25.52 165.28 272.02 66.63 20 9 27 3332.3 -28.45 157.35
 109.78 0 4 12 2988.90 -25.50 94.93 272.02 66.61 0 54 1 2388.9 -28.44 86.99
 110.00 0 27 9 2918.91 -27.30 90.29 272.85 68.58 1 15 48 2318.9 -29.96 82.11
 110.00 23 40 7 3050.30 -23.75 98.84 271.14 64.66 24 30 58 2450.3 -26.95 91.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8650 TRA -.5832 TC3-6.1988 BAU 1.1935 SGT 4895.1 SGR 481.1 SG3 161.0 ST 1352.4 SR 428.6 SS 322.5
 RDE .2837 RRA .0175 RC3 -.2854 FAU .03784 RRT .6424 RRF .6716 RTF .8863 CRT .9621 CRS -.9612 CST -.8649
 FDE .3280 FRA .2695 FC3-2.2771 BSP 15797 SGB 5018.2 R23 .1293 R13 .8869 LSA 1442.5 MSA 186.3 SSA 31.6
 BDE .9103 BRA .5835 BC3 6.2053 FSP -516 SG1 5004.7 SG2 368.0 THA 3.56 EL1 1414.3 EL2 111.8 ALF 17.07

LAUNCH DATE MAR 6 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 485.222

RL 148.42 LAL .00 LOL 165.25 VL 26.595 GAL -1.45 AZL 88.03 HCA 240.74 SMA 122.77 ECC .21044 INC 1.9717 V1 30.020
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.060 GAP 10.06 AZP 90.96 TAL 185.44 TAP 66.19 RCA 96.93 APO 148.60 V2 35.043
 RC 173.532 GL 14.18 GP -19.87 ZAL 107.36 ZAP 157.16 ETS 304.30 ZAE 129.88 ETE 197.08 ZAC 152.70 ETC 190.94 CLP-168.52

PLANETOCENTRIC CONIC

C3 13.952 VHL 3.735 CLA 33.32 RAL 51.21 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 7.282 OPA -.62 RAP 60.90 ECC 1.2296
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.65 19 29 51 3898.61 -25.17 162.51 275.61 67.41 20 34 50 3298.6 -28.01 154.55
 108.35 0 12 33 3009.08 -25.16 96.33 275.60 67.39 1 2 42 2409.1 -28.00 88.38
 71.65 19 29 51 3898.61 -25.17 162.51 275.61 67.41 20 34 50 3298.6 -28.01 154.55
 108.35 0 12 33 3009.08 -25.16 96.33 275.60 67.39 1 2 42 2409.1 -28.00 88.38
 110.00 1 20 41 2800.19 -29.98 82.10 277.58 72.76 2 7 21 2200.2 -32.05 73.49
 110.00 23 20 54 3155.50 -20.53 105.31 273.23 62.05 24 13 29 2555.5 -24.10 97.99

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8285 TRA -.3994 TC3-6.4820 BAU 1.2102 SGT 5059.8 SGR 484.1 SG3 158.9 ST 1297.9 SR 432.3 SS 301.2
 RDE .2817 RRA .0268 RC3 -.2848 FAU .03627 RRT .6301 RRF .6488 RTF .8876 CRT .9743 CRS -.9340 CST -.8489
 FDE .2871 FRA .3277 FC3-2.2508 BSP 16047 SGB 5082.9 R23 .1113 R13 .8881 LSA 1389.5 MSA 173.6 SSA 36.6
 BDE .8751 BRA .4003 BC3 6.4882 FSP -511 SG1 5069.0 SG2 375.3 THA 3.47 EL1 1364.9 EL2 92.5 ALF 18.07

LAUNCH DATE MAR 6 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 490.909

RL 148.42 LAL .00 LOL 165.25 VL 26.539 GAL -.98 AZL 88.27 HCA 243.95 SMA 122.43 ECC .21296 INC 1.7295 V1 30.020
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.033 GAP 10.32 AZP 90.76 TAL 183.64 TAP 67.58 RCA 96.36 APO 148.50 V2 35.056
 RC 175.544 GL 12.52 GP -18.95 ZAL 104.07 ZAP 158.33 ETS 303.67 ZAE 130.19 ETE 196.40 ZAC 155.09 ETC 190.50 CLP-169.29

PLANETOCENTRIC CONIC

C3 13.652 VHL 3.695 DLA 32.55 RAL 55.63 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 7.391 DPA .87 RAP 62.87 ECC 1.2247
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.25 19 57 40 3862.29 -24.73 159.51 279.44 68.14 21 2 2 3262.3 -27.48 151.56
 106.75 0 19 57 3035.86 -24.72 98.20 279.43 68.13 1 10 33 2435.9 -27.47 90.24
 73.25 19 57 40 3862.29 -24.73 159.51 279.44 68.14 21 2 2 3262.3 -27.48 151.56
 106.75 0 19 57 3035.86 -24.72 98.20 279.43 68.13 1 10 33 2435.9 -27.47 90.24
 110.00 2 0 10 2726.85 -31.35 76.82 281.89 75.61 2 45 37 2126.9 -33.00 67.99
 110.00 23 16 38 3219.29 -18.45 109.09 276.21 60.70 24 10 17 2619.3 -22.21 101.98

DIFFERENTIAL CORRECTIONS

TDE .7856 TRA -.2066 TC3-6.7132 BAU 1.2263
 ROE .2805 RRA .0370 RC3 -.2838 FAU .03470
 FDE .2471 FRA .3838 FC3-2.2003 BSP 16278
 BOE .8342 BRA .2099 BC3 6.7192 FSP -505

MID-COURSE EXECUTION ACCURACY

SGT 5122.3 SGR 487.7 SG3 156.7
 RRT .6182 RRF .6283 RTF .8896
 SGB 5145.5 R23 .0957 R13 .8901
 SG1 5131.2 SG2 382.7 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1232.6 SR 435.5 SS 281.3
 CRT .9846 CRS -.8929 CST -.8286
 LSA 1326.6 MSA 162.3 SSA 42.4
 EL1 1305.3 EL2 71.9 ALF 19.24

LAUNCH DATE MAR 6 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 496.579

RL 148.42 LAL .00 LOL 165.25 VL 26.484 GAL -.50 AZL 88.50 HCA 247.15 SMA 122.10 ECC .21573 INC 1.4999 V1 30.020
 RP 108.06 LAP -1.38 LOP 52.39 VP 37.006 GAP 10.59 AZP 90.58 TAL 181.83 TAP 68.98 RCA 95.76 APO 148.44 V2 35.069
 RC 177.535 GL 10.88 GP -18.12 ZAL 100.61 ZAP 159.41 ETS 302.87 ZAE 130.47 ETE 195.78 ZAC 157.49 ETC 190.04 CLP-170.06

PLANETOCENTRIC CONIC

C3 13.486 VHL 3.672 DLA 31.71 RAL 60.13 RAD 6567.5 VEL 11.613 PTH 2.03 VHP 7.512 DPA 2.24 RAP 64.92 ECC 1.2219
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.09 20 27 59 3821.11 -24.20 156.14 283.50 68.85 21 31 40 3221.1 -26.85 148.20
 104.91 0 25 35 3071.71 -24.19 100.70 283.49 68.84 1 16 46 2471.7 -26.84 92.75
 75.09 20 27 59 3821.11 -24.20 156.14 283.50 68.85 21 31 40 3221.1 -26.85 148.20
 104.91 0 25 35 3071.71 -24.19 100.70 283.49 68.84 1 16 46 2471.7 -26.84 92.75
 110.00 2 36 9 2666.71 -32.28 72.38 286.22 78.08 3 20 36 2066.7 -33.58 63.39
 110.00 23 16 35 3274.11 -16.59 112.26 279.59 59.68 24 11 9 2674.1 -20.49 105.31

DIFFERENTIAL CORRECTIONS

TDE .7326 TRA -.0045 TC3-6.8787 BAU 1.2413
 ROE .2796 RRA .0478 RC3 -.2815 FAU .03310
 FDE .2052 FRA .4372 FC3-2.1246 BSP 16467
 BOE .7841 BRA .0481 BC3 6.8845 FSP -496

MID-COURSE EXECUTION ACCURACY

SGT 5179.9 SGR 490.7 SG3 154.1
 RRT .6068 RRF .6087 RTF .8923
 SGB 5203.1 R23 .0807 R13 .8927
 SG1 5188.5 SG2 389.3 THA 3.31

ORBIT DETERMINATION ACCURACY

ST 1152.9 SR 437.1 SS 261.7
 CRT .9912 CRS -.8301 CST -.8011
 LSA 1250.0 MSA 154.8 SSA 48.2
 EL1 1231.8 EL2 54.3 ALF 20.64

LAUNCH DATE MAR 6 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 502.251

RL 148.42 LAL .00 LOL 165.25 VL 26.430 GAL -.00 AZL 88.72 HCA 250.36 SMA 121.78 ECC .21877 INC 1.2808 V1 30.020
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.979 GAP 10.87 AZP 90.43 TAL 180.01 TAP 70.37 RCA 95.14 APO 148.42 V2 35.083
 RC 179.506 GL 9.27 GP -17.37 ZAL 96.96 ZAP 160.42 ETS 301.89 ZAE 130.72 ETE 195.22 ZAC 159.89 ETC 189.56 CLP-170.83

PLANETOCENTRIC CONIC

C3 13.458 VHL 3.668 DLA 30.82 RAL 64.73 RAD 6567.5 VEL 11.612 PTH 2.03 VHP 7.643 DPA 3.50 RAP 67.02 ECC 1.2215
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.30 21 1 52 3771.67 -23.56 152.15 287.79 69.53 22 4 44 3171.7 -26.13 144.21
 102.70 0 28 21 3120.24 -23.54 104.09 287.78 69.52 1 20 21 2520.2 -26.12 96.16
 77.30 21 1 52 3771.67 -23.56 152.15 287.79 69.53 22 4 44 3171.7 -26.13 144.21
 102.70 0 28 21 3120.24 -23.54 104.09 287.78 69.52 1 20 21 2520.2 -26.12 96.16
 110.00 3 10 35 2613.89 -32.95 68.41 290.66 80.34 3 54 9 2013.9 -33.93 59.30
 110.00 23 18 48 3326.02 -14.78 115.19 283.30 58.82 24 14 14 2726.0 -18.81 108.39

DIFFERENTIAL CORRECTIONS

TDE .8727 TRA .3383 TC3-6.6351 BAU 1.1944
 ROE .3180 RRA .0832 RC3 -.2231 FAU .02716
 FDE .3621 FRA .6099 FC3-1.7469 BSP 16281
 BOE .9288 BRA .3484 BC3 6.6388 FSP -515

MID-COURSE EXECUTION ACCURACY

SGT 5092.6 SGR 544.4 SG3 154.4
 RRT .5651 RRF .6769 RTF .8454
 SGB 5121.7 R23 .2369 R13 .8466
 SG1 5102.0 SG2 448.3 THA 3.48

ORBIT DETERMINATION ACCURACY

ST 1383.1 SR 498.8 SS 434.1
 CRT .9945 CRS -.9034 CST -.9216
 LSA 1523.4 MSA 165.0 SSA 46.0
 EL1 1469.5 EL2 49.3 ALF 19.75

LAUNCH DATE MAR 6 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 507.860

RL 148.42 LAL .00 LOL 165.25 VL 26.377 GAL .51 AZL 88.93 HCA 253.57 SMA 121.47 ECC .22210 INC 1.0701 V1 30.020
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.953 GAP 11.16 AZP 90.30 TAL 178.22 TAP 71.79 RCA 94.49 APO 148.44 V2 35.095
 RC 181.455 GL 7.68 GP -16.70 ZAL 93.26 ZAP 161.36 ETS 300.73 ZAE 130.95 ETE 194.71 ZAC 162.29 ETC 189.01 CLP-171.59

PLANETOCENTRIC CONIC

C3 13.578 VHL 3.685 DLA 29.84 RAL 69.28 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 7.787 DPA 4.67 RAP 69.17 ECC 1.2235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.18 21 41 25 3705.63 -22.79 146.91 292.19 70.21 22 43 11 3105.6 -25.28 139.00
 99.82 0 25 8 3190.15 -22.78 109.01 292.19 70.19 1 18 18 2590.1 -25.27 101.10
 100.00 0 41 47 3136.96 -23.91 105.48 292.61 71.51 1 34 4 2537.0 -26.22 97.44
 100.00 0 11 23 3234.06 -21.67 111.82 291.74 68.89 1 5 17 2634.1 -24.35 104.05
 110.00 3 43 59 2565.31 -33.45 64.70 295.12 82.49 4 26 44 1965.3 -34.12 55.52
 110.00 23 21 44 3378.47 -12.92 118.11 287.17 58.07 24 18 2 2778.5 -17.04 111.43

DIFFERENTIAL CORRECTIONS

TDE .5958 TRA .4338 TC3-6.9719 BAU 1.2665
 ROE .2797 RRA .0732 RC3 -.2702 FAU .02979
 FDE .1228 FRA .5443 FC3-1.8996 BSP 16816
 BOE .6582 BRA .4399 BC3 6.9771 FSP -479

MID-COURSE EXECUTION ACCURACY

SGT 5278.5 SGR 496.0 SG3 148.4
 RRT .5836 RRF .5751 RTF .8968
 SGB 5301.7 R23 .0599 R13 .8971
 SG1 5286.4 SG2 402.1 THA 3.16

ORBIT DETERMINATION ACCURACY

ST 967.7 SR 436.7 SS 236.8
 CRT .9773 CRS -.6168 CST -.7388
 LSA 1072.3 MSA 175.4 SSA 51.4
 EL1 1058.3 EL2 84.7 ALF 23.96

LAUNCH DATE MAR 6 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 513.466

RL 148.42 LAL .00 LOL 165.25 VL 26.324 GAL 1.04 AZL 89.13 MCA 256.78 SMA 121.16 ECC .22574 INC .8661 V1 30.020
 RP 107.94 LAP -.84 LOP 62.03 VP 36.927 GAP 11.47 AZP 90.20 TAL 176.42 TAP 73.20 RCA 93.81 APO 148.51 V2 35.108
 RC 183.384 GL 6.14 GP -16.08 ZAL 89.45 ZAP 162.23 ETS 299.38 ZAE 131.16 ETE 194.25 ZAC 164.70 ETC 188.38 CLP -172.35

PLANETOCENTRIC CONIC

C3 13.852 VHL 3.722 DLA 28.79 RAL 73.84 RAD 6567.5 VEL 11.629 PTH 2.04 VHP 7.943 DPA 5.75 RAP 71.37 ECC 1.2280
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.59 22 34 30 3597.95 -21.92 138.63 296.76 70.86 23 34 28 2997.9 -24.34 130.75
 95.41 0 8 27 3306.56 -21.92 117.27 296.76 70.85 1 3 34 2706.6 -24.33 109.40
 100.00 1 52 57 2970.89 -27.03 94.12 298.39 76.71 2 42 27 2370.7 -28.58 85.66
 100.00 23 32 42 3409.05 -16.99 122.71 294.65 65.03 24 29 31 2809.1 -20.22 115.40
 110.00 4 16 38 2520.83 -33.79 61.27 299.69 84.49 4 58 38 1920.8 -34.18 52.05
 110.00 23 25 30 3431.68 -10.98 121.02 291.25 57.42 24 22 42 2831.7 -15.20 114.46

DIFFERENTIAL CORRECTIONS

TDE .5064 TRA .6683 TC3-6.8968 BAU 1.2781
 RDE .2800 RRA .0870 RC3 -.2615 FAU .02818
 FDE .0792 FRA .5954 FC3-1.7609 BSP 17007
 BDE .5787 BRA .6740 BC3 6.9017 FSP -472

MID-COURSE EXECUTION ACCURACY

SGT 5323.6 SGR 497.1 SG3 145.3
 RRT .5724 RRF .5593 RTF .8996
 SGB 5346.8 R23 .0505 R13 .8998
 SG1 5331.2 SG2 407.0 THA 3.08

ORBIT DETERMINATION ACCURACY

ST 869.2 SR 433.6 SS 232.5
 CRT .9370 CRS -.4570 CST -.7183
 LSA 974.8 MSA 212.6 SSA 47.1
 EL1 961.7 EL2 136.9 ALF 25.61

LAUNCH DATE MAR 6 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 519.045

RL 148.42 LAL .00 LOL 165.25 VL 26.272 GAL 1.60 AZL 89.33 MCA 260.00 SMA 120.85 ECC .22972 INC .6673 V1 30.020
 RP 107.90 LAP -.66 LOP 65.25 VP 36.902 GAP 11.79 AZP 90.12 TAL 174.62 TAP 74.62 RCA 93.09 APO 148.62 V2 35.120
 RC 185.291 GL 4.64 GP -15.53 ZAL 85.60 ZAP 163.04 ETS 297.83 ZAE 131.36 ETE 193.83 ZAC 167.11 ETC 187.58 CLP -173.10

PLANETOCENTRIC CONIC

C3 14.293 VHL 3.781 DLA 27.67 RAL 78.35 RAD 6567.6 VEL 11.648 PTH 2.04 VHP 8.111 DPA 6.73 RAP 73.61 ECC 1.2352
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 37 3285.96 -24.80 116.70 302.66 75.87 1 29 23 2686.0 -26.50 108.45
 90.00 22 44 16 3632.35 -17.20 139.22 299.95 67.15 23 44 48 3032.4 -20.15 131.78
 100.00 2 39 20 2883.94 -28.23 87.95 303.49 79.74 3 27 24 2283.9 -29.36 79.33
 100.00 23 22 15 3509.60 -14.01 128.68 298.42 63.32 24 20 44 2909.6 -17.48 121.61
 110.00 4 48 27 2479.87 -34.01 58.10 304.32 86.35 5 29 47 1879.9 -34.14 48.85
 110.00 23 29 37 3486.44 -8.96 123.97 295.46 56.87 24 27 43 2886.4 -13.26 117.51

DIFFERENTIAL CORRECTIONS

TDE .4085 TRA .9161 TC3-6.7306 BAU 1.2870
 RDE .2813 RRA .1017 RC3 -.2501 FAU .02655
 FDE .0375 FRA .6461 FC3-1.6080 BSP 17102
 BDE .4960 BRA .9217 BC3 6.7352 FSP -461

MID-COURSE EXECUTION ACCURACY

SGT 5361.0 SGR 497.7 SG3 142.1
 RRT .5618 RRF .5455 RTF .9025
 SGB 5384.0 R23 .0430 R13 .9027
 SG1 5368.3 SG2 411.2 THA 3.00

ORBIT DETERMINATION ACCURACY

ST 792.3 SR 429.5 SS 237.2
 CRT .8502 CRS -.2870 CST -.7335
 LSA 892.1 MSA 266.4 SSA 41.3
 EL1 877.8 EL2 204.1 ALF 26.27

LAUNCH DATE MAR 6 1969

FLIGHT TIME 178.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 524.592

RL 148.42 LAL .00 LOL 165.25 VL 26.220 GAL 2.18 AZL 89.53 MCA 263.22 SMA 120.56 ECC .23406 INC .4722 V1 30.020
 RP 107.87 LAP -.47 LOP 68.46 VP 36.877 GAP 12.13 AZP 90.06 TAL 172.83 TAP 76.05 RCA 92.34 APO 148.78 V2 35.132
 RC 187.175 GL 3.21 GP -15.02 ZAL 81.76 ZAP 163.80 ETS 296.07 ZAE 131.54 ETE 193.45 ZAC 169.52 ETC 186.49 CLP -173.86

PLANETOCENTRIC CONIC

C3 14.917 VHL 3.862 DLA 26.49 RAL 82.75 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 8.292 DPA 7.64 RAP 75.89 ECC 1.2455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 28 12 3176.16 -26.40 109.07 308.00 79.37 2 21 8 2576.2 -27.60 100.61
 90.00 22 25 49 3761.14 -13.63 146.99 303.63 64.94 23 28 30 3161.1 -16.90 139.84
 100.00 3 19 37 2816.93 -28.95 83.10 308.46 82.20 4 6 34 2216.9 -29.72 74.38
 100.00 23 17 5 3595.60 -11.32 133.66 302.46 62.15 24 17 0 2995.6 -14.96 126.76
 110.00 5 19 19 2442.43 -34.14 55.18 308.98 88.08 6 0 1 1842.4 -34.03 45.93
 110.00 23 33 53 3542.86 -6.85 126.97 299.76 56.43 24 32 56 2942.9 -11.21 120.60

DIFFERENTIAL CORRECTIONS

TDE .2946 TRA 1.1723 TC3-6.4966 BAU 1.2964
 RDE .2828 RRA .1168 RC3 -.2372 FAU .02502
 FDE -.0056 FRA .6945 FC3-1.4521 BSP 17279
 BDE .4083 BRA 1.1781 BC3 6.5009 FSP -454

MID-COURSE EXECUTION ACCURACY

SGT 5399.0 SGR 497.0 SG3 138.9
 RRT .5512 RRF .5319 RTF .9060
 SGB 5421.8 R23 .0354 R13 .9061
 SG1 5406.0 SG2 414.1 THA 2.92

ORBIT DETERMINATION ACCURACY

ST 743.9 SR 423.5 SS 248.7
 CRT .6919 CRS -.1139 CST -.7852
 LSA 827.0 MSA 330.7 SSA 35.8
 EL1 808.5 EL2 281.4 ALF 24.69

LAUNCH DATE MAR 6 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 530.105

RL 148.42 LAL .00 LOL 165.25 VL 26.170 GAL 2.78 AZL 89.72 MCA 266.44 SMA 120.27 ECC .23880 INC .2799 V1 30.020
 RP 107.83 LAP -.28 LOP 71.68 VP 36.852 GAP 12.50 AZP 90.02 TAL 171.05 TAP 77.48 RCA 91.55 APO 148.99 V2 35.144
 RC 189.037 GL 1.84 GP -14.56 ZAL 77.95 ZAP 164.49 ETS 294.09 ZAE 131.71 ETE 193.09 ZAC 171.93 ETC 184.84 CLP -174.61

PLANETOCENTRIC CONIC

C3 15.742 VHL 3.968 DLA 25.26 RAL 87.02 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 8.488 DPA 8.46 RAP 78.21 ECC 1.2591
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 11 11 3100.39 -27.24 103.68 313.07 81.95 3 2 51 2500.4 -28.07 95.11
 90.00 22 16 53 3861.15 -10.68 152.85 307.66 63.62 23 21 14 3261.1 -14.14 145.88
 100.00 3 56 18 2761.49 -29.39 79.04 313.36 84.29 4 42 19 2161.5 -29.87 70.27
 100.00 23 14 27 3675.28 -8.75 138.17 306.65 61.30 24 15 42 3075.3 -12.52 131.41
 110.00 5 49 4 2408.69 -34.18 52.54 313.66 89.63 6 29 12 1808.7 -33.85 43.31
 110.00 23 38 10 3600.84 -4.65 130.03 304.14 56.10 24 38 11 3000.8 -9.07 123.73

DIFFERENTIAL CORRECTIONS

TDE .1687 TRA 1.4412 TC3-6.1943 BAU 1.3045
 RDE .2849 RRA .1325 RC3 -.2223 FAU .02351
 FDE -.0483 FRA .7430 FC3-1.2931 BSP 17439
 BDE .3311 BRA 1.4473 BC3 6.1983 FSP -446

MID-COURSE EXECUTION ACCURACY

SGT 5432.9 SGR 495.1 SG3 135.7
 RRT .5406 RRF .5188 RTF .9093
 SGB 5455.4 R23 .0289 R13 .9095
 SG1 5439.5 SG2 416.0 THA 2.84

ORBIT DETERMINATION ACCURACY

ST 746.8 SR 416.3 SS 267.0
 CRT .4658 CRS .0392 CST -.8581
 LSA 807.0 MSA 387.3 SSA 31.1
 EL1 778.6 EL2 353.4 ALF 18.50

LAUNCH DATE MAR 6 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 535.578

RL 148.42 LAL .00 LOL 165.25 VL 26.120 GAL 3.42 AZL 89.91 MCA 269.66 SMA 119.99 ECC .24398 INC .0876 V1 30.020
 RP 107.79 LAP -.09 LOP 74.91 VP 36.828 GAP 12.88 AZP 90.00 TAL 169.27 TAP 78.93 RCA 90.71 APO 149.26 V2 35.155
 RC 190.875 GL -.56 GP -14.14 ZAL 74.23 ZAP 165.13 ETS 291.88 ZAE 131.86 ETE 192.77 ZAC 174.33 ETC 181.91 CLP-175.36

PLANETOCENTRIC CONIC

C3 16.792 VHL 4.098 DLA 24.00 RAL 91.12 RAD 6567.7 VEL 11.755 PTH 2.07 VHP 8.700 DPA 9.20 RAP 80.55 ECC 1.2764
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 4 3040.77 -27.73 99.39 318.02 84.04 3 39 44 2440.8 -28.27 90.76
 90.00 22 11 43 3950.22 -7.94 157.96 311.86 62.73 23 17 34 3350.2 -11.53 151.12
 100.00 4 30 12 2714.70 -29.66 75.59 318.21 86.09 5 15 26 2114.7 -29.89 66.79
 100.00 23 13 17 3751.51 -6.24 142.43 310.93 60.71 24 15 48 3151.5 -10.09 135.77
 110.00 6 17 32 2378.86 -34.17 50.21 318.35 91.01 6 57 11 1778.9 -33.65 41.01
 110.00 23 42 25 3660.12 -2.40 133.13 308.56 55.89 24 43 25 3060.1 -6.86 126.89

DIFFERENTIAL CORRECTIONS

TOE .0324 TRA 1.7242 TC3-5.8334 BAU 1.3104
 RDE .2878 RRA .1488 RC3 -.2055 FAU .02203
 FDE -.0900 FRA .7916 FC3-1.1355 BSP 17576
 BOE .2897 BRA 1.7306 BC3 5.8371 FSP -439

MID-COURSE EXECUTION ACCURACY

SGT 5461.0 SGR 492.1 SG3 132.4
 RRT .5300 RRF .5064 RTF .9127
 SGB 5483.2 R23 .0234 R13 .9128
 SG1 5467.3 SG2 416.8 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 805.8 SR 408.2 SS 289.9
 CRT .2221 CRS .1629 CST -.9205
 LSA 853.8 MSA 412.7 SSA 27.3
 EL1 812.5 EL2 394.8 ALF 8.42

LAUNCH DATE MAR 6 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 541.005

RL 148.42 LAL .00 LOL 165.25 VL 26.071 GAL 4.08 AZL 90.10 MCA 272.88 SMA 119.71 ECC .24962 INC .1021 V1 30.020
 RP 107.76 LAP .10 LOP 78.13 VP 36.803 GAP 13.29 AZP 90.01 TAL 167.51 TAP 80.40 RCA 89.83 APO 149.59 V2 35.166
 RC 192.690 GL -.63 GP -13.75 ZAL 70.61 ZAP 165.72 ETS 289.43 ZAE 132.00 ETE 192.47 ZAC 176.69 ETC 174.90 CLP-176.11

PLANETOCENTRIC CONIC

C3 18.094 VHL 4.254 DLA 22.73 RAL 95.04 RAD 6567.7 VEL 11.810 PTH 2.09 VHP 8.929 DPA 9.87 RAP 82.93 ECC 1.2978
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 23 23 2992.17 -28.03 95.86 322.90 85.79 4 13 15 2392.2 -28.32 87.21
 90.00 22 8 39 4033.41 -5.31 162.66 316.14 62.15 23 15 52 3433.4 -9.00 155.93
 100.00 5 1 41 2675.24 -29.81 72.66 323.02 87.62 5 46 16 2075.2 -29.82 63.86
 100.00 23 13 2 3825.58 -3.75 146.53 315.28 60.32 24 16 48 3225.6 -7.68 139.94
 110.00 6 44 38 2353.14 -34.12 48.21 323.02 92.20 7 23 51 1753.1 -33.44 39.03
 110.00 23 46 34 3720.44 -.09 136.28 313.00 55.82 24 48 35 3120.4 -4.57 130.07

DIFFERENTIAL CORRECTIONS

TOE -.1107 TRA 2.0244 TC3-5.4234 BAU 1.3127
 RDE .2919 RRA .1656 RC3 -.1869 FAU .02051
 FDE -.1293 FRA .8417 FC3 -.9811 BSP 17613
 BOE .3121 BRA 2.0311 BC3 5.4266 FSP -427

MID-COURSE EXECUTION ACCURACY

SGT 5481.9 SGR 488.2 SG3 129.3
 RRT .5194 RRF .4951 RTF .9159
 SGB 5503.6 R23 .0194 R13 .9160
 SG1 5487.8 SG2 416.7 THA 2.66

ORBIT DETERMINATION ACCURACY

ST 910.0 SR 399.8 SS 315.2
 CRT .0176 CRS .2546 CST -.9588
 LSA 959.3 MSA 407.9 SSA 24.3
 EL1 910.0 EL2 399.7 ALF .55

LAUNCH DATE MAR 6 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 546.379

RL 148.42 LAL .00 LOL 165.25 VL 26.023 GAL 4.78 AZL 90.30 MCA 276.11 SMA 119.44 ECC .25579 INC .2953 V1 30.020
 RP 107.73 LAP .29 LOP 81.36 VP 36.779 GAP 13.73 AZP 90.03 TAL 165.77 TAP 81.88 RCA 88.89 APO 149.99 V2 35.177
 RC 194.480 GL -1.73 GP -13.40 ZAL 67.12 ZAP 166.24 ETS 286.73 ZAE 132.13 ETE 192.19 ZAC 178.40 ETC 140.07 CLP-176.87

PLANETOCENTRIC CONIC

C3 19.682 VHL 4.436 DLA 21.47 RAL 98.75 RAD 6567.8 VEL 11.877 PTH 2.11 VHP 9.176 DPA 10.46 RAP 85.32 ECC 1.3239
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 54 48 2952.35 -28.19 92.96 327.71 87.23 4 44 0 2352.3 -28.28 84.30
 90.00 22 6 51 4112.82 -2.77 167.12 320.47 61.81 23 15 24 3512.8 -6.52 160.44
 100.00 5 30 56 2642.36 -29.87 70.22 327.77 88.91 6 14 58 2042.4 -29.71 61.42
 100.00 23 13 24 3898.04 -1.30 150.51 319.65 60.13 24 18 22 3298.0 -5.27 143.97
 110.00 7 10 14 2331.70 -34.05 46.54 327.68 93.19 7 49 6 1731.7 -33.24 37.39
 110.00 23 50 35 3781.47 2.24 139.46 317.44 55.88 24 53 37 3181.5 -2.25 133.26

DIFFERENTIAL CORRECTIONS

TOE -.2678 TRA 2.3354 TC3-4.9959 BAU 1.3153
 RDE .2964 RRA .1824 RC3 -.1683 FAU .01910
 FDE -.1694 FRA .8907 FC3 -.8401 BSP 17743
 BOE .3995 BRA 2.3425 BC3 4.9988 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 5502.2 SGR 482.6 SG3 126.1
 RRT .5083 RRF .4830 RTF .9195
 SGB 5523.3 R23 .0151 R13 .9196
 SG1 5507.7 SG2 415.2 THA 2.57

ORBIT DETERMINATION ACCURACY

ST 1040.6 SR 390.3 SS 341.8
 CRT -.1428 CRS .3299 CST -.9790
 LSA 1095.3 MSA 389.6 SSA 21.9
 EL1 1042.3 EL2 385.7 ALF 176.45

LAUNCH DATE MAR 6 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 551.692

RL 148.42 LAL .00 LOL 165.25 VL 25.975 GAL 5.51 AZL 90.49 MCA 279.34 SMA 119.17 ECC .26253 INC .4901 V1 30.020
 RP 107.70 LAP .48 LOP 84.58 VP 36.755 GAP 14.20 AZP 90.08 TAL 164.04 TAP 83.38 RCA 87.89 APO 150.46 V2 35.187
 RC 196.245 GL -2.73 GP -13.08 ZAL 63.78 ZAP 166.71 ETS 283.79 ZAE 132.24 ETE 191.93 ZAC 178.09 ETC 40.38 CLP-177.63

PLANETOCENTRIC CONIC

C3 21.594 VHL 4.647 DLA 20.23 RAL 102.25 RAD 6567.9 VEL 11.957 PTH 2.13 VHP 9.444 DPA 10.99 RAP 87.74 ECC 1.3554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 23 40 2920.08 -28.28 90.60 332.45 88.41 5 12 20 2320.1 -28.20 81.94
 90.00 22 5 54 4189.47 -.30 171.39 324.83 61.68 23 15 44 3589.5 -4.08 164.76
 100.00 5 58 6 2615.61 -29.89 68.23 332.48 89.95 6 41 41 2015.6 -29.58 59.44
 100.00 23 14 10 3969.17 1.11 154.42 324.05 60.13 24 20 19 3369.2 -2.87 147.89
 110.00 7 34 18 2314.62 -33.98 45.21 332.31 93.97 8 12 52 1714.6 -33.06 36.09
 110.00 23 54 27 3842.92 4.58 142.68 321.88 56.09 24 58 30 3242.9 .10 136.47

DIFFERENTIAL CORRECTIONS

TOE -.4330 TRA 2.6635 TC3-4.5531 BAU 1.3151
 RDE .3021 RRA .1991 RC3 -.1494 FAU .01772
 FDE -.2081 FRA .9408 FC3 -.7106 BSP 17847
 BOE .5280 BRA 2.6709 BC3 4.5555 FSP -411

MID-COURSE EXECUTION ACCURACY

SGT 5517.2 SGR 475.9 SG3 123.1
 RRT .4969 RRF .4713 RTF .9233
 SGB 5537.7 R23 .0115 R13 .9233
 SG1 5522.3 SG2 412.6 THA 2.47

ORBIT DETERMINATION ACCURACY

ST 1184.7 SR 380.7 SS 368.4
 CRT -.2570 CRS .3863 CST -.9890
 LSA 1244.2 MSA 368.5 SSA 20.0
 EL1 1189.2 EL2 366.5 ALF 174.78

LAUNCH DATE MAR 6 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 556.933

RL 148.42 LAL .00 LOL 165.25 VL 25.928 GAL 6.29 AZL 90.69 HCA 282.57 SMA 118.91 ECC .26991 INC .6890 V1 30.020
 RP 107.67 LAP .67 LOP 87.81 VP 36.731 GAP 14.71 AZP 90.15 TAL 162.34 TAP 84.91 RCA 86.82 APO 151.01 V2 35.196
 RC 197.986 GL -3.64 GP -12.79 ZAL 60.62 ZAP 167.11 ETS 280.59 ZAE 132.34 ETE 191.68 ZAC 175.82 ETC 23.95 CLP-178.40

PLANETOCENTRIC CONIC

C3 23.878 VHL 4.887 DLA 19.02 RAL 105.53 RAD 6568.0 VEL 12.052 PTH 2.15 VHP 9.736 DPA 11.44 RAP 90.16 ECC 1.3930
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 50 15 2894.56 -28.31 88.74 337.14 89.35 5 38 29 2294.6 -28.10 80.08
 90.00 22 5 33 4263.88 2.10 175.54 329.20 61.75 23 16 37 3663.9 -1.69 168.92
 100.00 6 23 16 2594.61 -29.88 66.67 337.14 90.77 7 6 30 1994.6 -29.46 57.89
 100.00 23 15 13 4039.06 3.48 158.26 328.44 60.29 24 22 32 3439.1 -.50 151.73
 110.00 7 56 49 2301.93 -33.92 44.22 336.92 94.55 8 35 10 1701.9 -32.91 35.13
 110.00 0 2 5 3904.51 6.91 145.93 326.32 56.44 1 7 9 3304.5 2.45 139.68

DIFFERENTIAL CORRECTIONS

TDE -.6071 TRA 3.0086 TC3-4.1089 BAU 1.3124
 RDE .3087 RRA .2157 RC3 -.1308 FAU .01638
 FDE -.2460 FRA .9921 FC3 -.5939 BSP 17939
 BDE .6811 BRA 3.0163 BC3 4.1110 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 5527.6 SGR 467.9 SG3 120.2
 RRT .4848 RRF .4594 RTF .9271
 SGB 5547.4 R23 .0086 R13 .9272
 SG1 5532.3 SG2 408.9 THA 2.36

ORBIT DETERMINATION ACCURACY

ST 1332.0 SR 370.7 SS 394.3
 CRT -.3389 CRS .4298 CST -.9939
 LSA 1394.8 MSA 348.2 SSA 18.4
 EL1 1338.3 EL2 347.2 ALF 174.22

LAUNCH DATE MAR 6 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 562.092

RL 148.42 LAL .00 LOL 165.25 VL 25.882 GAL 7.11 AZL 90.89 HCA 285.80 SMA 118.66 ECC .27800 INC .8928 V1 30.020
 RP 107.64 LAP .86 LOP 91.05 VP 36.707 GAP 15.26 AZP 90.24 TAL 160.66 TAP 86.46 RCA 85.67 APO 151.65 V2 35.205
 RC 199.701 GL -4.45 GP -12.52 ZAL 57.62 ZAP 167.46 ETS 277.14 ZAE 132.42 ETE 191.45 ZAC 173.45 ETC 19.19 CLP-179.18

PLANETOCENTRIC CONIC

C3 26.594 VHL 5.157 DLA 17.85 RAL 108.61 RAD 6568.1 VEL 12.164 PTH 2.18 VHP 10.053 DPA 11.83 RAP 92.60 ECC 1.4377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 14 41 2875.22 -28.32 87.32 341.77 90.06 6 2 36 2275.2 -28.01 78.67
 90.00 22 5 36 4336.33 4.43 179.60 333.58 62.00 23 17 52 3736.3 .65 172.96
 100.00 6 46 32 2579.04 -29.86 65.51 341.75 91.38 7 29 31 1979.0 -29.35 56.75
 100.00 23 16 26 4107.75 5.78 162.05 332.83 60.62 24 24 54 3507.7 1.82 155.50
 110.00 8 17 47 2293.54 -33.87 43.57 341.49 94.93 8 56 0 1693.5 -32.81 34.49
 110.00 0 5 37 3966.01 9.21 149.20 330.73 56.94 1 11 43 3366.0 4.80 142.90

DIFFERENTIAL CORRECTIONS

TDE -.7853 TRA 3.3771 TC3-3.6666 BAU 1.3042
 RDE .3166 RRA .2320 RC3 -.1125 FAU .01501
 FDE -.2815 FRA 1.0464 FC3 -.4885 BSP 17916
 BDE .8467 BRA 3.3051 BC3 3.6683 FSP -392

MID-COURSE EXECUTION ACCURACY

SGT 5531.8 SGR 458.9 SG3 117.3
 RRT .4725 RRF .4482 RTF .9311
 SGB 5550.8 R23 .0067 R13 .9311
 SG1 5536.1 SG2 404.1 THA 2.26

ORBIT DETERMINATION ACCURACY

ST 1474.0 SR 361.1 SS 418.6
 CRT -.3954 CRS .4608 CST -.9965
 LSA 1539.0 MSA 330.6 SSA 17.0
 EL1 1481.3 EL2 330.0 ALF 174.18

LAUNCH DATE MAR 6 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 567.153

RL 148.42 LAL .00 LOL 165.25 VL 25.837 GAL 7.99 AZL 91.10 HCA 289.03 SMA 118.41 ECC .28687 INC 1.1035 V1 30.020
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.683 GAP 15.85 AZP 90.36 TAL 159.02 TAP 88.05 RCA 84.44 APO 152.38 V2 35.213
 RC 201.391 GL -5.18 GP -12.27 ZAL 54.81 ZAP 167.73 ETS 273.45 ZAE 132.48 ETE 191.23 ZAC 171.07 ETC 16.95 CLP-179.97

PLANETOCENTRIC CONIC

C3 29.812 VHL 5.460 DLA 16.74 RAL 111.47 RAD 6568.2 VEL 12.296 PTH 2.21 VHP 10.399 DPA 12.15 RAP 95.03 ECC 1.4906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 37 9 2861.54 -28.31 86.32 346.35 90.56 6 24 51 2261.5 -27.93 77.68
 90.00 22 5 57 4406.98 6.67 183.58 337.94 62.42 23 19 24 3807.0 2.92 176.90
 100.00 7 8 0 2568.56 -29.84 64.73 346.31 91.79 7 50 49 1968.6 -29.28 55.98
 100.00 23 17 47 4175.19 8.02 165.81 337.21 61.11 24 27 22 3575.2 4.10 159.21
 110.00 8 37 15 2289.35 -33.84 43.25 346.03 95.12 9 15 24 1689.3 -32.76 34.18
 110.00 0 8 58 4027.18 11.47 152.51 335.13 57.57 1 16 5 3427.2 7.11 146.13

DIFFERENTIAL CORRECTIONS

TDE -.9771 TRA 3.7616 TC3-3.2479 BAU 1.2951
 RDE .3254 RRA .2474 RC3 -.0955 FAU .01374
 FDE -.3178 FRA 1.1012 FC3 -.3989 BSP 18006
 BDE 1.0299 BRA 3.7697 BC3 3.2493 FSP -384

MID-COURSE EXECUTION ACCURACY

SGT 5533.7 SGR 448.3 SG3 114.5
 RRT .4585 RRF .4354 RTF .9353
 SGB 5551.8 R23 .0049 R13 .9354
 SG1 5537.5 SG2 398.1 THA 2.14

ORBIT DETERMINATION ACCURACY

ST 1609.9 SR 351.0 SS 442.4
 CRT -.4410 CRS .4882 CST -.9979
 LSA 1676.9 MSA 313.9 SSA 15.9
 EL1 1617.6 EL2 313.5 ALF 174.29

LAUNCH DATE MAR 6 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 572.099

RL 148.42 LAL .00 LOL 165.25 VL 25.793 GAL 8.92 AZL 91.32 HCA 292.26 SMA 118.17 ECC .29663 INC 1.3227 V1 30.020
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.660 GAP 16.50 AZP 90.50 TAL 157.41 TAP 89.68 RCA 83.12 APO 153.22 V2 35.221
 RC 203.056 GL -5.82 GP -12.04 ZAL 52.18 ZAP 167.93 ETS 269.54 ZAE 132.51 ETE 191.02 ZAC 168.71 ETC 15.64 CLP 179.23

PLANETOCENTRIC CONIC

C3 33.619 VHL 5.798 DLA 15.69 RAL 114.12 RAD 6568.3 VEL 12.450 PTH 2.25 VHP 10.779 DPA 12.41 RAP 97.46 ECC 1.5533
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 47 2853.08 -28.30 85.70 350.86 90.87 6 45 20 2253.1 -27.88 77.06
 90.00 22 6 31 4475.89 8.82 187.50 342.28 62.98 23 21 6 3875.9 5.13 180.76
 100.00 7 27 46 2562.85 -29.83 64.31 350.82 92.02 8 10 29 1962.9 -29.23 55.56
 100.00 23 19 12 4241.35 10.17 169.54 341.57 61.74 24 29 53 3641.3 6.32 162.87
 110.00 8 55 15 2289.15 -33.84 43.23 350.52 95.13 9 33 24 1689.1 -32.76 34.16
 110.00 0 12 9 4087.82 13.66 155.84 339.52 58.36 1 20 16 3487.8 9.37 149.36

DIFFERENTIAL CORRECTIONS

TDE -1.1790 TRA 4.1685 TC3-2.8430 BAU 1.2783
 RDE .3353 RRA .2618 RC3 -.0798 FAU .01249
 FDE -.3536 FRA 1.1586 FC3 -.3217 BSP 18134
 BDE 1.2258 BRA 4.1767 BC3 2.8442 FSP -377

MID-COURSE EXECUTION ACCURACY

SGT 5525.7 SGR 436.5 SG3 111.8
 RRT .4432 RRF .4218 RTF .9402
 SGB 5543.0 R23 .0033 R13 .9403
 SG1 5529.1 SG2 391.1 THA 2.02

ORBIT DETERMINATION ACCURACY

ST 1736.3 SR 341.0 SS 465.2
 CRT -.4767 CRS .5107 CST -.9987
 LSA 1805.0 MSA 298.6 SSA 14.8
 EL1 1744.1 EL2 298.4 ALF 174.49

LAUNCH DATE MAR 6 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 576.907

RL 148.42 LAL .00 LOL 165.25 VL 25.749 GAL 9.91 AZL 91.55 MCA 295.50 SMA 117.94 ECC .30738 INC 1.5523 V1 30.020
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.636 GAP 17.20 AZP 90.67 TAL 155.85 TAP 91.35 RCA 81.69 APO 154.19 V2 35.228
 RC 204.697 GL -6.39 GP -11.83 ZAL 49.74 ZAP 168.06 ETS 265.43 ZAE 132.53 ETE 190.82 ZAC 166.35 ETC 14.79 CLP 178.40

PLANETOCENTRIC CONIC

C3 38.121 VML 6.174 DLA 14.70 RAL 116.58 RAD 6568.5 VEL 12.629 PTH 2.29 VHP 11.195 DPA 12.61 RAP 99.88 ECC 1.6274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 16 40 2849.39 -28.30 85.43 355.31 91.00 7 4 10 2249.4 -27.86 76.80
 90.00 22 7 13 4543.07 10.87 191.36 346.61 63.69 23 22 56 3943.1 7.25 184.56
 100.00 7 45 55 2561.55 -29.83 64.21 355.27 92.07 8 28 37 1961.6 -29.22 55.46
 100.00 23 20 39 4306.14 12.24 173.24 345.90 62.51 24 32 25 3706.1 8.46 166.49
 110.00 9 11 51 2292.71 -33.86 43.51 354.98 94.97 9 50 3 1692.7 -32.80 34.43
 110.00 0 15 9 4147.75 15.77 159.20 343.88 59.27 1 24 16 3547.7 11.58 152.60

DIFFERENTIAL CORRECTIONS

TDE-1.3864 TRA 4.6017 TC3-2.4782 BAU 1.2634
 RDE .3464 RRA .2749 RC3 -.0653 FAU .01125
 FDE -.3890 FRA 1.2192 FC3 -.2556 BSP 18109
 BDE 1.4290 BRA 4.6099 BC3 2.4790 FSP -369

MID-COURSE EXECUTION ACCURACY

SGT 5523.6 SGR 423.5 SG3 109.2
 RRT .4263 RRF .4069 RTF .9444
 SGB 5539.9 R23 .0026 R13 .9444
 SG1 5526.6 SG2 382.9 THA 1.88

ORBIT DETERMINATION ACCURACY

ST 1848.7 SR 331.0 SS 487.1
 CRT -.5042 CRS .5295 CST -.9991
 LSA 1919.2 MSA 284.8 SSA 14.0
 EL1 1856.4 EL2 284.7 ALF 174.72

LAUNCH DATE MAR 6 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 581.553

RL 148.42 LAL .00 LOL 165.25 VL 25.707 GAL 10.99 AZL 91.79 MCA 298.73 SMA 117.71 ECC .31926 INC 1.7947 V1 30.020
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.612 GAP 17.97 AZP 90.86 TAL 154.34 TAP 93.07 RCA 80.13 APO 155.29 V2 35.235
 RC 206.313 GL -6.89 GP -11.64 ZAL 47.47 ZAP 168.11 ETS 261.15 ZAE 132.51 ETE 190.62 ZAC 164.02 ETC 14.19 CLP 177.55

PLANETOCENTRIC CONIC

C3 43.452 VML 6.592 DLA 13.78 RAL 118.84 RAD 6568.6 VEL 12.838 PTH 2.34 VHP 11.654 DPA 12.75 RAP 102.29 ECC 1.7151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 33 56 2850.07 -28.30 85.48 359.70 90.98 7 21 27 2250.1 -27.87 76.84
 90.00 22 8 1 4608.46 12.82 195.18 350.90 64.53 23 24 49 4008.5 9.29 188.29
 100.00 8 2 33 2564.31 -29.83 64.42 359.65 91.96 8 45 17 1964.3 -29.24 55.66
 100.00 23 22 5 4369.45 14.20 176.92 350.21 63.42 24 34 55 3769.5 10.51 170.07
 110.00 9 27 6 2299.76 -33.90 44.05 359.38 94.65 10 5 25 1699.8 -32.89 34.96
 110.00 0 17 58 4206.76 17.79 162.58 348.21 60.32 1 28 5 3606.8 13.71 155.85

DIFFERENTIAL CORRECTIONS

TDE-1.6012 TRA 5.0666 TC3-2.1284 BAU 1.2368
 RDE .3590 RRA .2864 RC3 -.0521 FAU .00997
 FDE -.4232 FRA 1.2848 FC3 -.1987 BSP 18034
 BDE 1.6409 BRA 5.0747 BC3 2.1291 FSP -358

MID-COURSE EXECUTION ACCURACY

SGT 5511.1 SGR 409.6 SG3 106.7
 RRT .4079 RRF .3911 RTF .9490
 SGB 5526.3 R23 .0025 R13 .9490
 SG1 5513.6 SG2 373.8 THA 1.74

ORBIT DETERMINATION ACCURACY

ST 1947.9 SR 321.4 SS 507.8
 CRT -.5263 CRS .5444 CST -.9994
 LSA 2020.2 MSA 272.2 SSA 13.2
 EL1 1955.4 EL2 272.2 ALF 174.94

LAUNCH DATE MAR 6 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 586.000

RL 148.42 LAL .00 LOL 165.25 VL 25.666 GAL 12.14 AZL 92.05 MCA 301.97 SMA 117.49 ECC .33242 INC 2.0527 V1 30.020
 RP 107.53 LAP 1.74 LOP 107.23 VP 36.589 GAP 18.82 AZP 91.09 TAL 152.89 TAP 94.86 RCA 78.43 APO 156.54 V2 35.240
 RC 207.904 GL -7.32 GP -11.46 ZAL 45.39 ZAP 168.07 ETS 256.74 ZAE 132.46 ETE 190.42 ZAC 161.71 ETC 13.74 CLP 176.67

PLANETOCENTRIC CONIC

C3 49.778 VML 7.055 DLA 12.93 RAL 120.92 RAD 6568.8 VEL 13.082 PTH 2.39 VHP 12.162 DPA 12.83 RAP 104.67 ECC 1.8192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 49 41 2854.69 -28.31 85.82 4.00 90.81 7 37 15 2254.7 -27.89 77.18
 90.00 22 8 52 4671.99 14.65 198.95 355.15 65.49 23 26 44 4072.0 11.22 191.95
 100.00 8 17 43 2570.75 -29.85 64.90 3.96 91.71 9 0 34 1970.8 -29.29 56.14
 100.00 23 23 31 4431.16 16.04 180.57 354.48 64.44 24 37 22 3831.2 12.47 173.60
 110.00 9 41 3 2310.01 -33.96 44.85 3.71 94.18 10 19 33 1710.0 -33.01 35.74
 110.00 0 20 37 4264.67 19.71 165.97 352.51 61.49 1 31 41 3664.7 15.75 159.09

DIFFERENTIAL CORRECTIONS

TDE-1.8325 TRA 5.5576 TC3-1.8120 BAU 1.2061
 RDE .3727 RRA .2954 RC3 -.0407 FAU .00875
 FDE -.4592 FRA 1.3533 FC3 -.1523 BSP 18068
 BDE 1.8700 BRA 5.5655 BC3 1.8124 FSP -351

MID-COURSE EXECUTION ACCURACY

SGT 5495.0 SGR 394.3 SG3 104.3
 RRT .3859 RRF .3719 RTF .9538
 SGB 5509.1 R23 .0024 R13 .9538
 SG1 5497.1 SG2 363.6 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 2037.3 SR 311.6 SS 529.1
 CRT -.5478 CRS .5602 CST -.9996
 LSA 2111.8 MSA 259.7 SSA 12.5
 EL1 2044.5 EL2 259.7 ALF 175.13

LAUNCH DATE MAR 6 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 590.208

RL 148.42 LAL .00 LOL 165.25 VL 25.626 GAL 13.40 AZL 92.33 MCA 305.21 SMA 117.27 ECC .34703 INC 2.3297 V1 30.020
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.566 GAP 19.76 AZP 91.34 TAL 151.51 TAP 96.72 RCA 76.58 APO 157.97 V2 35.246
 RC 209.470 GL -7.69 GP -11.30 ZAL 43.47 ZAP 167.94 ETS 252.24 ZAE 132.37 ETE 190.23 ZAC 159.43 ETC 13.40 CLP 175.76

PLANETOCENTRIC CONIC

C3 57.308 VML 7.570 DLA 12.14 RAL 122.82 RAD 6569.0 VEL 13.367 PTH 2.44 VHP 12.727 DPA 12.86 RAP 107.02 ECC 1.9431
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 57 2862.86 -28.31 86.42 8.21 90.51 7 51 40 2262.9 -27.94 77.77
 90.00 22 9 46 4733.54 16.35 202.67 359.35 66.55 23 28 39 4133.5 13.04 195.56
 100.00 8 31 30 2580.52 -29.87 65.62 8.18 91.33 9 14 31 1980.5 -29.36 56.85
 100.00 23 24 54 4491.11 17.77 184.19 358.69 65.56 24 39 45 3891.1 14.32 177.09
 110.00 9 53 45 2323.15 -34.02 45.87 7.97 93.58 10 32 28 1723.1 -33.15 36.74
 110.00 0 23 4 4321.24 21.51 169.38 356.77 62.77 1 35 6 3721.2 17.69 162.33

DIFFERENTIAL CORRECTIONS

TDE-2.0758 TRA 6.0842 TC3-1.5229 BAU 1.1670
 RDE .3879 RRA .3017 RC3 -.0307 FAU .00751
 FDE -.4959 FRA 1.4272 FC3 -.1135 BSP 18082
 BDE 2.1117 BRA 6.0917 BC3 1.5232 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5474.6 SGR 378.1 SG3 101.9
 RRT .3605 RRF .3496 RTF .9587
 SGB 5487.7 R23 .0027 R13 .9587
 SG1 5476.3 SG2 352.5 THA 1.43

ORBIT DETERMINATION ACCURACY

ST 2114.2 SR 301.9 SS 550.6
 CRT -.5675 CRS .5753 CST -.9997
 LSA 2191.5 MSA 247.7 SSA 11.8
 EL1 2121.2 EL2 247.7 ALF 175.30

LAUNCH DATE MAR 6 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 594.124

RL 148.42 LAL .00 LOL 165.25 VL 25.587 GAL 14.76 AZL 92.63 MCA 308.44 SMA 117.07 ECC .36332 INC 2.6298 V1 30.020
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.543 GAP 20.81 AZP 91.64 TAL 150.23 TAP 98.67 RCA 74.53 APO 159.60 V2 35.250
 RC 211.012 GL -8.01 GP -11.15 ZAL 41.74 ZAP 167.71 ETS 247.70 ZAE 132.23 ETE 190.03 ZAC 157.20 ETC 13.14 CLP 174.80

PLANETOCENTRIC CONIC

C3 66.310 VHL 8.143 DLA 11.43 RAL 124.55 RAD 6569.3 VEL 13.699 PTH 2.50 VHP 13.357 DPA 12.85 RAP 109.33 ECC 2.0913
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 50 2874.18 -28.32 87.25 12.31 90.10 8 4 44 2274.2 -28.00 78.59
 90.00 22 10 39 4792.91 17.92 206.32 3.47 67.70 23 30 32 4192.9 14.74 199.08
 100.00 8 43 57 2593.24 -29.88 66.57 12.30 90.83 9 27 10 1993.2 -29.45 57.79
 100.00 23 26 13 4549.09 19.37 187.75 2.83 66.77 24 42 3 3949.1 16.06 180.52
 110.00 10 5 15 2338.84 -34.08 47.09 12.14 92.86 10 44 13 1738.8 -33.31 37.94
 110.00 0 25 21 4376.25 23.18 172.77 .96 64.15 1 38 17 3776.2 19.52 165.55

DIFFERENTIAL CORRECTIONS

TDE-2.3329 TRA 6.6507 TC3-1.2607 BAU 1.1178
 RDE .4048 RRA .3046 RC3 -.0222 FAU .00622
 FDE -.5337 FRA 1.5075 FC3 -.0812 BSP 18077
 BOE 2.3678 BRA 6.6576 BC3 1.2609 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 5450.0 SGR 360.9 SG3 99.6
 RRT .3308 RRF .3231 RTF .9634
 SGB 5461.9 R23 .0033 R13 .9634
 SG1 5451.3 SG2 340.5 THA 1.26

ORBIT DETERMINATION ACCURACY

ST 2179.4 SR 292.3 SS 572.9
 CRT -.5864 CRS .5904 CST -.9998
 LSA 2259.9 MSA 236.0 SSA 11.2
 EL1 2186.2 EL2 236.0 ALF 175.45

LAUNCH DATE MAR 6 1969

FLIGHT TIME 208.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 597.679

RL 148.42 LAL .00 LOL 165.25 VL 25.549 GAL 16.26 AZL 92.96 MCA 311.68 SMA 116.87 ECC .38154 INC 2.9582 V1 30.020
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.520 GAP 21.98 AZP 91.97 TAL 149.05 TAP 100.73 RCA 72.28 APO 161.46 V2 35.254
 RC 212.528 GL -8.29 GP -11.00 ZAL 40.17 ZAP 167.58 ETS 243.15 ZAE 132.04 ETE 189.82 ZAC 155.01 ETC 12.93 CLP 173.79

PLANETOCENTRIC CONIC

C3 77.127 VHL 8.782 DLA 10.78 RAL 126.10 RAD 6569.5 VEL 14.088 PTH 2.57 VHP 14.064 DPA 12.79 RAP 111.58 ECC 2.2693
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 28 21 2888.29 -28.31 88.28 16.29 89.58 8 16 29 2288.3 -28.07 79.62
 90.00 22 11 31 4849.90 19.36 209.88 7.49 68.92 23 32 21 4249.9 16.32 202.53
 100.00 8 55 5 2608.57 -29.89 67.71 16.29 90.23 9 38 33 2008.6 -29.54 58.92
 100.00 23 27 28 4604.85 20.82 191.25 6.87 68.06 24 44 13 4004.9 17.66 183.88
 110.00 10 15 33 2356.78 -34.13 48.49 16.20 92.03 10 54 49 1756.8 -33.47 39.31
 110.00 0 27 26 4429.40 24.72 176.13 5.07 65.60 1 41 15 3829.4 21.22 168.73

DIFFERENTIAL CORRECTIONS

TDE-2.6020 TRA 7.2659 TC3-1.0222 BAU 1.0541
 RDE .4238 RRA .3034 RC3 -.0151 FAU .00481
 FDE -.5722 FRA 1.5961 FC3 -.0540 BSP 17954
 BOE 2.6363 BRA 7.2722 BC3 1.0223 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 5421.3 SGR 343.1 SG3 97.4
 RRT .2960 RRF .2917 RTF .9681
 SGB 5432.2 R23 .0043 R13 .9681
 SG1 5422.3 SG2 327.7 THA 1.08

ORBIT DETERMINATION ACCURACY

ST 2231.7 SR 283.0 SS 595.9
 CRT -.6045 CRS .6051 CST -.9998
 LSA 2316.2 MSA 224.8 SSA 10.5
 EL1 2238.3 EL2 224.8 ALF 175.57

LAUNCH DATE MAR 6 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 600.785

RL 148.42 LAL .00 LOL 165.25 VL 25.513 GAL 17.91 AZL 93.32 MCA 314.92 SMA 116.68 ECC .40197 INC 3.3214 V1 30.020
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.498 GAP 23.29 AZP 92.35 TAL 148.00 TAP 102.91 RCA 69.78 APO 163.59 V2 35.256
 RC 214.018 GL -8.52 GP -10.87 ZAL 38.78 ZAP 166.94 ETS 238.63 ZAE 131.77 ETE 189.60 ZAC 152.88 ETC 12.77 CLP 172.72

PLANETOCENTRIC CONIC

C3 90.206 VHL 9.498 DLA 10.21 RAL 127.48 RAD 6569.8 VEL 14.545 PTH 2.64 VHP 14.860 DPA 12.69 RAP 113.77 ECC 2.4846
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 38 31 2904.84 -28.30 89.49 20.12 88.97 8 26 56 2304.8 -28.14 80.83
 90.00 22 12 21 4904.22 20.65 213.34 11.38 70.18 23 34 5 4304.2 17.76 205.86
 100.00 9 4 55 2826.18 -29.89 69.02 20.14 89.54 9 48 41 2026.2 -29.63 60.22
 100.00 23 28 37 4658.11 22.14 194.66 10.79 69.39 24 46 16 4058.1 19.14 187.15
 110.00 10 24 39 2376.66 -34.17 50.04 20.11 91.12 11 4 16 1776.7 -33.64 40.84
 110.00 0 29 19 4480.40 26.11 179.44 9.06 67.12 1 43 59 3880.4 22.79 171.86

DIFFERENTIAL CORRECTIONS

TDE-2.8941 TRA 7.9272 TC3 -.8109 BAU .9780
 RDE .4448 RRA .2968 RC3 -.0095 FAU .00334
 FDE -.6142 FRA 1.6924 FC3 -.0321 BSP 17938
 BOE 2.9281 BRA 7.9328 BC3 .8110 FSP -320

MID-COURSE EXECUTION ACCURACY

SGT 5388.2 SGR 324.7 SG3 95.3
 RRT .2533 RRF .2523 RTF .9726
 SGB 5397.9 R23 .0053 R13 .9726
 SG1 5388.8 SG2 314.1 THA .88

ORBIT DETERMINATION ACCURACY

ST 2274.9 SR 273.9 SS 621.3
 CRT -.6243 CRS .6222 CST -.9999
 LSA 2364.4 MSA 213.4 SSA 9.9
 EL1 2281.4 EL2 213.3 ALF 175.66

LAUNCH DATE MAR 6 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 603.326

RL 148.42 LAL .00 LOL 165.25 VL 25.479 GAL 19.74 AZL 93.73 MCA 318.15 SMA 116.50 ECC .42499 INC 3.7282 V1 30.020
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.476 GAP 24.78 AZP 92.78 TAL 147.10 TAP 105.25 RCA 66.99 APO 166.02 V2 35.259
 RC 215.482 GL -8.71 GP -10.74 ZAL 37.58 ZAP 166.37 ETS 234.18 ZAE 131.43 ETE 189.37 ZAC 150.83 ETC 12.65 CLP 171.57

PLANETOCENTRIC CONIC

C3 106.130 VHL 10.302 DLA 9.71 RAL 128.68 RAD 6570.0 VEL 15.082 PTH 2.71 VHP 15.763 DPA 12.57 RAP 115.88 ECC 2.7466
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 47 19 2923.53 -28.27 90.86 23.77 88.29 8 36 2 2323.5 -28.21 82.19
 90.00 22 13 6 4955.52 21.80 216.67 15.11 71.46 23 35 42 4355.5 19.06 209.06
 100.00 9 13 26 2645.76 -29.87 70.47 23.82 88.77 9 57 32 2045.8 -29.72 61.67
 100.00 23 29 40 4708.53 23.31 197.95 14.55 70.74 24 48 8 4108.5 20.47 190.30
 110.00 10 32 33 2398.18 -34.18 51.72 23.87 90.12 11 12 31 1798.2 -33.79 42.50
 110.00 0 30 58 4528.87 27.36 182.66 12.90 68.66 1 46 27 3928.9 24.21 174.91

DIFFERENTIAL CORRECTIONS

TDE-3.2064 TRA 8.6465 TC3 -.6223 BAU .8831
 RDE .4686 RRA .2838 RC3 -.0051 FAU .00170
 FDE -.6590 FRA 1.7990 FC3 -.0138 BSP 17911
 BOE 3.2405 BRA 8.6511 BC3 .6224 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 5350.4 SGR 306.1 SG3 93.3
 RRT .2015 RRF .2037 RTF .9768
 SGB 5359.2 R23 .0064 R13 .9768
 SG1 5350.8 SG2 299.8 THA .66

ORBIT DETERMINATION ACCURACY

ST 2307.4 SR 265.0 SS 649.0
 CRT -.6451 CRS .6406 CST -.9999
 LSA 2403.0 MSA 202.1 SSA 9.4
 EL1 2313.7 EL2 202.0 ALF 175.73

LAUNCH DATE MAR 6 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 25.448 GAL 21.79 AZL 94.19 HCA 321.39 SMA 116.34 ECC .45100 INC 4.1898 V1 30.020
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.455 GAP 26.48 AZP 93.28 TAL 146.39 TAP 107.78 RCA 63.87 APO 168.81 V2 35.260
 RC 216.920 GL -8.86 GP -10.62 ZAL 36.56 ZAP 165.67 ETS 229.83 ZAE 131.00 ETE 189.13 ZAC 148.87 ETC 12.57 CLP 170.32

PLANETOCENTRIC CONIC

C3 125.677 VML 11.211 DLA 9.29 RAL 129.69 RAD 6570.3 VEL 15.717 PTH 2.79 VHP 16.793 DPA 12.42 RAP 117.90 ECC 3.0683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 54 42 2944.10 -28.22 92.36 27.21 87.54 8 43 46 2344.1 -28.26 83.69
 90.00 22 13 46 5003.42 22.80 219.82 18.64 72.74 23 37 10 4403.4 20.22 212.70
 100.00 9 20 36 2667.07 -29.83 72.06 27.28 87.94 10 5 3 2067.1 -29.79 63.25
 100.00 23 30 34 4755.68 24.33 201.08 18.10 72.08 24 49 50 4155.7 21.66 193.30
 110.00 10 39 12 2421.10 -34.17 53.51 27.42 89.06 11 19 33 1821.1 -33.92 44.28
 110.00 0 32 25 4574.42 28.45 185.75 16.54 70.19 1 48 37 3974.4 25.48 177.83

DIFFERENTIAL CORRECTIONS

TDE-3.5410 TRA 9.4325 TC3 -.4548 BAU .7641
 RDE .4957 RRA .2628 RC3 -.0020 FAU-.00020
 FDE -.7073 FRA 1.9182 FC3 .0014 BSP 17846
 BOE 3.5756 BRA 9.4362 BC3 .4548 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 5308.3 SGR 287.6 SG3 91.3
 RRT .1381 RRF .1434 RTF .9808
 SGB 5316.0 R23 .0076 R13 .9808
 SG1 5308.4 SG2 284.9 THA .43

ORBIT DETERMINATION ACCURACY

ST 2328.9 SR 256.6 SS 679.8
 CRT -.6671 CRS .6606 CST -.9999
 LSA 2432.1 MSA 190.9 SSA 8.8
 EL1 2335.2 EL2 190.7 ALF 175.77

LAUNCH DATE MAR 6 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 25.418 GAL 24.10 AZL 94.72 HCA 324.62 SMA 116.19 ECC .48049 INC 4.7217 V1 30.020
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.435 GAP 28.42 AZP 93.85 TAL 145.91 TAP 110.53 RCA 60.36 APO 172.02 V2 35.261
 RC 218.330 GL -8.98 GP -10.50 ZAL 35.75 ZAP 164.81 ETS 225.58 ZAE 130.44 ETE 188.85 ZAC 147.03 ETC 12.51 CLP 168.96

PLANETOCENTRIC CONIC

C3 149.882 VML 12.243 DLA 8.96 RAL 130.50 RAD 6570.6 VEL 16.468 PTH 2.87 VHP 17.974 DPA 12.26 RAP 119.79 ECC 3.4667
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 0 36 2966.33 -28.14 93.98 30.40 86.73 8 50 2 2366.3 -28.30 85.32
 90.00 22 14 20 5047.43 23.66 222.76 21.90 73.97 23 38 27 4447.4 21.23 214.93
 100.00 9 26 19 2689.89 -29.76 73.75 30.50 87.05 10 11 9 2089.9 -29.85 64.95
 100.00 23 31 18 4799.11 25.21 204.00 21.40 73.39 24 51 17 4199.1 22.70 196.11
 110.00 10 44 30 2445.19 -34.13 53.59 30.73 87.95 11 25 16 1845.2 -34.04 46.15
 110.00 0 33 32 4616.57 29.38 188.68 19.92 71.69 1 50 28 4016.6 26.60 180.60

DIFFERENTIAL CORRECTIONS

TDE-3.8968 TRA10.2974 TC3 -.3058 BAU .6127
 RDE .5270 RRA .2319 RC3 -.0000 FAU-.00249
 FDE -.7591 FRA 2.0530 FC3 .0144 BSP 17666
 BOE 3.9323 BRA10.3000 BC3 .3058 FSP -300

MID-COURSE EXECUTION ACCURACY

SGT 5261.9 SGR 270.0 SG3 89.5
 RRT .0608 RRF .0688 RTF .9844
 SGB 5268.9 R23 .0088 R13 .9844
 SG1 5262.0 SG2 269.5 THA .18

ORBIT DETERMINATION ACCURACY

ST 2338.5 SR 248.8 SS 714.0
 CRT -.6901 CRS .6819 CST -.9999
 LSA 2451.1 MSA 180.0 SSA 8.2
 EL1 2344.8 EL2 179.6 ALF 175.78

LAUNCH DATE MAR 6 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 10 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 25.392 GAL 26.72 AZL 95.35 HCA 327.85 SMA 116.05 ECC .51401 INC 5.3454 V1 30.020
 RP 107.47 LAP 2.84 LOP 133.21 VP 36.417 GAP 30.67 AZP 94.53 TAL 145.71 TAP 113.56 RCA 56.40 APO 175.71 V2 35.260
 RC 219.714 GL -9.06 GP -10.38 ZAL 35.16 ZAP 163.77 ETS 221.46 ZAE 129.74 ETE 188.55 ZAC 145.32 ETC 12.49 CLP 167.46

PLANETOCENTRIC CONIC

C3 180.145 VML 13.422 DLA 8.71 RAL 131.08 RAD 6570.9 VEL 17.363 PTH 2.95 VHP 19.337 DPA 12.10 RAP 121.55 ECC 3.9647
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 4 53 2990.12 -28.04 95.71 33.31 85.86 8 54 43 2390.1 -28.32 87.06
 90.00 22 14 45 5087.00 24.38 225.44 24.85 75.13 23 39 32 4487.0 22.10 217.51
 100.00 9 30 27 2714.10 -29.66 75.54 33.44 86.11 10 15 42 2114.1 -29.89 66.74
 100.00 23 31 51 4838.25 25.95 206.68 24.38 74.61 24 52 29 4238.3 23.58 198.68
 110.00 10 48 22 2470.32 -34.05 57.35 33.76 86.79 11 29 32 1870.3 -34.12 48.11
 110.00 0 34 22 4654.80 30.17 191.38 22.99 73.11 1 51 57 4054.8 27.56 183.15

DIFFERENTIAL CORRECTIONS

TDE-4.2856 TRA11.2403 TC3 -.1768 BAU .4258
 RDE .5633 RRA .1885 RC3 .0008 FAU-.00522
 FDE -.8174 FRA 2.2038 FC3 .0251 BSP 17599
 BOE 4.3224 BRA11.2419 BC3 .1768 FSP -295

MID-COURSE EXECUTION ACCURACY

SGT 5209.3 SGR 253.9 SG3 87.8
 RRT -.0346 RRF -.0243 RTF .9876
 SGB 5215.5 R23 -.0099 R13 -.9876
 SG1 5209.3 SG2 253.7 THA 179.90

ORBIT DETERMINATION ACCURACY

ST 2338.3 SR 241.7 SS 753.3
 CRT -.7154 CRS .7060 CST -.9999
 LSA 2462.8 MSA 168.9 SSA 7.6
 EL1 2344.8 EL2 168.4 ALF 175.75

LAUNCH DATE MAR 6 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 12 1969

HELIOCENTRIC CONIC

RL 148.42 LAL .00 LOL 165.25 VL 25.370 GAL 29.71 AZL 96.09 HCA 331.08 SMA 115.94 ECC .55217 INC 6.0921 V1 30.020
 RP 107.47 LAP 2.94 LOP 136.46 VP 36.401 GAP 33.28 AZP 95.34 TAL 145.86 TAP 116.94 RCA 51.92 APO 179.96 V2 35.260
 RC 221.070 GL -9.11 GP -10.26 ZAL 34.82 ZAP 162.52 ETS 217.47 ZAE 128.86 ETE 188.22 ZAC 143.78 ETC 12.50 CLP 165.77

PLANETOCENTRIC CONIC

C3 218.368 VML 14.777 DLA 8.57 RAL 131.42 RAD 6571.2 VEL 18.431 PTH 3.04 VHP 20.919 DPA 11.96 RAP 123.12 ECC 4.5938
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 7 21 3015.46 -27.90 97.55 35.87 84.95 8 57 36 2415.5 -28.31 88.91
 90.00 22 14 59 5121.48 24.96 227.80 27.41 76.17 23 40 20 4521.5 22.81 219.79
 100.00 9 32 51 2739.68 -29.53 77.43 36.04 85.13 10 18 31 2139.7 -29.89 68.65
 100.00 23 32 10 4872.49 26.54 209.05 26.97 75.72 24 53 22 4272.5 24.32 200.96
 110.00 10 50 35 2496.42 -33.93 59.38 36.46 85.60 11 32 11 1896.4 -34.17 50.14
 110.00 0 34 51 4688.51 30.81 193.79 25.67 74.41 1 52 59 4088.5 28.37 185.45

DIFFERENTIAL CORRECTIONS

TDE-4.7026 TRA12.2746 TC3 -.0647 BAU .1889
 RDE .6061 RRA .1295 RC3 .0007 FAU-.00863
 FDE -.8818 FRA 2.3749 FC3 .0342 BSP 17503
 BOE 4.7415 BRA12.2753 BC3 .0647 FSP -290

MID-COURSE EXECUTION ACCURACY

SGT 5150.3 SGR 240.4 SG3 86.2
 RRT -.1490 RRF -.1371 RTF .9903
 SGB 5155.9 R23 -.0109 R13 -.9903
 SG1 5150.5 SG2 237.8 THA 179.60

ORBIT DETERMINATION ACCURACY

ST 2325.8 SR 235.5 SS 798.1
 CRT -.7422 CRS .7318 CST -.9998
 LSA 2465.1 MSA 158.1 SSA 7.0
 EL1 2332.4 EL2 157.4 ALF 175.68

LAUNCH DATE MAR 7 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 16 1969

HELIOCENTRIC CONIC

DISTANCE 202.453

RL 148.46 LAL .00 LOL 166.25 VL 28.924 GAL -13.20 AZL 90.11 MCA 92.08 SMA 139.51 ECC .23677 INC .1143 V1 30.012
 RP 108.65 LAP -.11 LOP 258.33 VP 38.622 GAP -4.97 AZP 90.00 TAL 241.51 TAP 333.59 RCA 106.48 APO 172.55 V2 34.878
 RC 67.198 GL -.44 GP 24.53 ZAL 165.30 ZAP 49.96 ETS 340.13 ZAE 152.03 ETE 50.84 ZAC 116.11 ETC 151.04 CLP -45.00

PLANETOCENTRIC CONIC

C3 53.168 VHL 7.292 CLA -.03 RAL 1.04 RAD 6568.9 VEL 13.211 PTH 2.41 VHP 5.491 DPA 32.90 RAP 21.18 ECC 1.8750
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 28 20 2456.70 -24.61 57.42 239.33 104.46 1 9 17 1856.7 -22.38 49.46
 90.00 12 25 54 5102.73 24.65 226.51 239.35 75.60 13 50 56 4502.7 22.43 218.55
 100.00 1 49 40 2194.36 -25.95 37.74 238.93 105.38 2 26 14 1594.4 -23.59 29.74
 100.00 13 47 15 4840.30 25.98 206.82 238.96 74.68 15 7 55 4240.3 23.63 198.81
 110.00 2 57 53 1980.85 -29.56 20.31 237.71 108.00 3 30 54 1380.9 -26.82 12.20
 110.00 14 55 32 4626.57 29.60 189.38 237.74 72.06 16 12 38 4026.6 26.86 181.26

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.1980 TRA -.4621 TC3 .1402 BAU .2041 SGT 444.8 SGR 543.1 SG3 185.6 ST 190.0 SR 266.4 SS 346.5
 RDE -.3166 RRA .4016 RC3 .2506 FAU .07915 RRT -.0048 RRF -.6523 RTF .0062 CRT .5622 CRS -.7648 CST -.9541
 FDE -.8775 FRA -.9919 FC3-1.2889 BSP 1209 SGB 702.0 R23 .0032 R13 -.6523 LSA 445.6 MSA 167.4 SSA 22.5
 BDE .3734 BRA .6122 BC3 .2871 FSP -520 SG1 543.1 SG2 444.8 THA 90.68 EL1 294.8 EL2 142.0 ALF 60.74

LAUNCH DATE MAR 7 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 209.072

RL 148.46 LAL .00 LOL 166.25 VL 28.956 GAL -13.06 AZL 90.30 MCA 95.25 SMA 139.79 ECC .23400 INC .3033 V1 30.012
 RP 108.68 LAP -.30 LOP 261.50 VP 38.637 GAP -4.26 AZP 89.97 TAL 241.96 TAP 337.22 RCA 107.08 APO 172.50 V2 34.867
 RC 69.360 GL -1.19 GP 25.91 ZAL 165.50 ZAP 54.39 ETS 342.28 ZAE 152.13 ETE 57.31 ZAC 114.25 ETC 151.41 CLP -49.66

PLANETOCENTRIC CONIC

C3 52.170 VHL 7.223 CLA -.81 RAL 1.12 RAD 6568.9 VEL 13.173 PTH 2.41 VHP 5.243 DPA 33.53 RAP 19.01 ECC 1.8586
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 24 2427.99 -24.11 55.47 238.77 105.32 1 14 52 1828.0 -21.77 47.58
 90.00 12 20 28 5122.05 24.97 227.84 239.40 76.19 13 45 50 4522.0 22.82 219.82
 100.00 1 55 22 2166.81 -25.44 35.85 238.36 106.25 2 31 29 1566.8 -22.97 27.92
 100.00 13 42 11 4858.46 26.30 208.08 239.02 75.26 15 3 10 4258.5 24.02 200.02
 110.00 3 2 45 1955.88 -29.02 18.56 237.08 108.91 3 35 21 1355.9 -26.17 10.54
 110.00 14 51 18 4642.15 29.92 190.48 237.84 72.64 16 8 40 4042.1 27.25 182.30

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2105 TRA -.4947 TC3 .1110 BAU .2120 SGT 455.6 SGR 574.2 SG3 203.4 ST 204.4 SR 250.3 SS 375.9
 RDE -.2892 RRA .4179 RC3 .2830 FAU .08550 RRT -.1003 RRF -.6944 RTF .1266 CRT .6210 CRS -.7441 CST -.9502
 FDE -.9928 FRA-1.0693 FC3-1.4188 BSP 1325 SGB 733.0 R23 .0532 R13 -.6947 LSA 464.8 MSA 170.9 SSA 22.6
 BDE .3577 BRA .6476 BC3 .3040 FSP -581 SG1 578.9 SG2 449.7 THA 101.64 EL1 284.3 EL2 153.6 ALF 55.71

LAUNCH DATE MAR 7 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 215.649

RL 148.46 LAL .00 LOL 166.25 VL 28.977 GAL -12.93 AZL 90.49 MCA 98.42 SMA 139.97 ECC .23149 INC .4942 V1 30.012
 RP 108.72 LAP -.49 LOP 264.67 VP 38.643 GAP -3.60 AZP 89.93 TAL 242.26 TAP 340.68 RCA 107.57 APO 172.37 V2 34.858
 RC 71.560 GL -1.95 GP 27.31 ZAL 165.56 ZAP 58.95 ETS 344.48 ZAE 152.01 ETE 64.29 ZAC 112.25 ETC 151.93 CLP -54.51

PLANETOCENTRIC CONIC

C3 51.238 VHL 7.158 CLA -1.57 RAL 1.29 RAD 6568.9 VEL 13.138 PTH 2.40 VHP 5.032 DPA 34.09 RAP 16.64 ECC 1.8433
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 43 2399.93 -23.59 53.58 238.35 106.13 1 20 42 1799.9 -21.15 45.75
 90.00 12 15 30 5141.16 25.27 229.15 239.55 76.78 13 41 11 4541.2 23.20 221.10
 100.00 2 1 19 2139.89 -24.91 34.02 237.91 107.08 2 36 59 1539.9 -22.34 26.17
 100.00 13 37 34 4876.43 26.61 209.32 239.19 75.85 14 58 51 4276.4 24.40 201.22
 110.00 3 7 54 1931.50 -28.47 16.88 236.59 109.77 3 40 5 1331.5 -25.51 8.95
 110.00 14 47 29 4657.58 30.23 191.57 238.05 73.22 16 5 7 4057.6 27.63 183.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2293 TRA -.5345 TC3 .0736 BAU .2226 SGT 477.5 SGR 607.0 SG3 220.3 ST 224.0 SR 232.9 SS 404.2
 RDE -.2599 RRA .4323 RC3 .3165 FAU .09143 RRT -.2147 RRF -.7316 RTF .2616 CRT .4770 CRS -.7166 CST -.9482
 FDE-1.1071 FRA-1.1349 FC3-1.5447 BSP 1459 SGB 772.3 R23 .0900 R13 -.7339 LSA 487.2 MSA 173.0 SSA 22.6
 BDE .3466 BRA .6875 BC3 .3250 FSP -637 SG1 626.1 SG2 452.1 THA 110.77 EL1 277.8 EL2 165.1 ALF 47.34

LAUNCH DATE MAR 7 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 222.184

RL 148.46 LAL .00 LOL 166.25 VL 28.988 GAL -12.80 AZL 90.69 MCA 101.59 SMA 140.06 ECC .22918 INC .6881 V1 30.012
 RP 108.74 LAP -.67 LOP 267.84 VP 38.643 GAP -2.96 AZP 89.86 TAL 242.41 TAP 344.00 RCA 107.96 APO 172.16 V2 34.848
 RC 73.792 GL -2.74 GP 28.70 ZAL 165.50 ZAP 63.59 ETS 346.75 ZAE 151.61 ETE 71.61 ZAC 110.14 ETC 152.59 CLP -59.53

PLANETOCENTRIC CONIC

C3 50.360 VHL 7.096 CLA -2.32 RAL 1.54 RAD 6568.9 VEL 13.104 PTH 2.39 VHP 4.858 DPA 34.56 RAP 14.10 ECC 1.8288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 19 2372.28 -23.06 51.73 238.03 106.91 1 26 51 1772.3 -20.52 43.97
 90.00 12 10 55 5160.20 25.56 230.47 239.80 77.38 13 36 56 4560.2 23.57 222.37
 100.00 2 7 34 2113.37 -24.37 32.24 237.59 107.87 2 42 48 1513.4 -21.70 24.46
 100.00 13 33 21 4894.34 26.90 210.58 239.45 76.45 14 54 55 4294.3 24.77 202.42
 110.00 3 13 20 1907.50 -27.91 15.24 236.21 110.59 3 45 8 1307.5 -24.85 7.40
 110.00 14 44 4 4672.98 30.52 192.67 238.36 73.81 16 1 57 4073.0 28.00 184.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2531 TRA -.5796 TC3 .0293 BAU .2373 SGT 512.7 SGR 641.7 SG3 236.6 ST 248.0 SR 213.9 SS 432.9
 RDE -.2279 RRA .4453 RC3 .3512 FAU .09695 RRT -.3350 RRF -.7647 RTF .3947 CRT .4233 CRS -.6779 CST -.9472
 FDE-1.2231 FRA-1.1905 FC3-1.6667 BSP 1649 SGB 821.4 R23 .1139 R13 -.7703 LSA 513.7 MSA 173.9 SSA 22.5
 BDE .3406 BRA .7309 BC3 .3524 FSP -696 SG1 685.8 SG2 452.0 THA 117.98 EL1 278.2 EL2 172.7 ALF 35.33

LAUNCH DATE MAR 7 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 221.676

RL 148.46 LAL .00 LOL 166.25 VL 28.990 GAL -12.67 AZL 90.89 HCA 104.76 SMA 140.07 ECC .22705 INC .8862 V1 30.012
 RP 108.77 LAP -.86 LOP 271.01 VP 38.636 GAP -2.36 AZP 89.77 TAL 242.41 TAP 347.17 RCA 108.27 APO 171.88 V2 34.839
 RC 76.053 GL -3.56 GP 30.06 ZAL 165.32 ZAP 68.28 ETS 349.13 ZAE 150.89 ETE 79.05 ZAC 107.96 ETC 153.37 CLP -64.69

PLANETOCENTRIC CONIC

C3 49.522 VHL 7.037 CLA -3.07 RAL 1.88 RAD 6568.8 VEL 13.072 PTH 2.39 VHP 4.719 DPA 34.95 RAP 11.47 ECC 1.8150
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 15 2344.78 -22.50 49.90 237.83 107.66 1 33 19 1744.8 -19.87 42.21
 90.00 12 6 41 5179.33 25.84 231.81 240.15 77.99 13 33 0 4579.3 23.92 223.66
 100.00 2 14 9 2087.01 -23.81 30.48 237.37 108.63 2 48 56 1487.0 -21.04 22.78
 100.00 13 29 27 4912.34 27.18 211.84 239.82 77.06 14 51 20 4312.3 25.13 203.64
 110.00 3 19 6 1883.67 -27.33 13.63 235.95 111.38 3 50 30 1283.7 -24.18 5.88
 110.00 14 40 59 4688.45 30.81 193.79 238.76 74.41 15 59 8 4088.4 28.37 185.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2841 TRA -.6311 TC3 -.0231 BAU .2556
 RDE -.1949 RRA .4545 RC3 .3854 FAU .10157
 FDE -1.3306 FRA -1.2262 FC3 -1.7755 BSP 1866
 BDE .3445 BRA .7778 BC3 .3861 FSP -743

SGT 565.1 SGR 675.8 SG3 250.7
 RRT -.4494 RRF -.7926 RTF .5162
 SGB 880.9 R23 .1302 R13 -.8020
 SG1 756.9 SG2 450.7 THA 124.10

ST 278.1 SR 194.4 SS 459.3
 CRT .3611 CRS -.6270 CST -.9478
 LSA 543.7 MSA 173.3 SSA 22.5
 EL1 -292.1 EL2 172.6 ALP 22.33

LAUNCH DATE MAR 7 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 235.127

RL 148.46 LAL .00 LOL 166.25 VL 28.983 GAL -12.55 AZL 91.09 HCA 107.92 SMA 140.02 ECC .22504 INC 1.0901 V1 30.012
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.624 GAP -1.79 AZP 89.66 TAL 242.29 TAP 350.21 RCA 108.51 APO 171.53 V2 34.831
 RC 78.340 GL -4.42 GP 31.38 ZAL 165.01 ZAP 72.96 ETS 351.60 ZAE 149.83 ETE 86.35 ZAC 105.76 ETC 154.26 CLP -69.93

PLANETOCENTRIC CONIC

C3 48.718 VHL 6.980 CLA -3.83 RAL 2.30 RAD 6568.8 VEL 13.041 PTH 2.38 VHP 4.614 DPA 35.25 RAP 8.78 ECC 1.8018
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 33 2317.18 -21.92 48.09 237.74 108.39 1 40 11 1717.2 -19.20 40.47
 90.00 12 2 43 5198.76 26.11 233.17 240.60 78.62 13 29 22 4598.8 24.27 224.98
 100.00 2 21 6 2060.56 -23.22 28.73 237.25 109.37 2 55 27 1460.6 -20.37 21.10
 100.00 13 25 51 4930.61 27.45 213.13 240.28 77.69 14 48 1 4330.6 25.48 204.88
 110.00 3 25 15 1859.78 -26.72 12.03 235.79 112.15 3 56 14 1259.8 -23.48 4.37
 110.00 14 38 12 4704.16 31.09 194.92 239.27 75.03 15 56 36 4104.2 28.73 186.52

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3213 TRA -.6867 TC3 -.0822 BAU .2782
 RDE -.1601 RRA .4607 RC3 .4191 FAU .10530
 FDE -1.4323 FRA -1.2464 FC3 -1.8712 BSP 2134
 BDE .3590 BRA .8269 BC3 .4271 FSP -791

SGT 633.9 SGR 709.4 SG3 262.9
 RRT -.5483 RRF -.8165 RTF .6165
 SGB 951.4 R23 .1409 R13 -.8292
 SG1 839.2 SG2 448.1 THA 129.19

ST 313.5 SR 174.7 SS 485.4
 CRT .2800 CRS -.5556 CST -.9494
 LSA 578.4 MSA 171.5 SSA 22.4
 EL1 318.7 EL2 164.9 ALF 12.17

LAUNCH DATE MAR 7 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 241.537

RL 148.46 LAL .00 LOL 166.25 VL 28.969 GAL -12.41 AZL 91.30 HCA 111.09 SMA 139.90 ECC .22315 INC 1.3013 V1 30.012
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.607 GAP -1.25 AZP 89.53 TAL 242.04 TAP 353.13 RCA 108.68 APO 171.11 V2 34.824
 RC 80.651 GL -5.32 GP 32.65 ZAL 164.59 ZAP 77.59 ETS 354.18 ZAE 148.44 ETE 93.31 ZAC 103.59 ETC 155.21 CLP -75.21

PLANETOCENTRIC CONIC

C3 47.942 VHL 6.924 CLA -4.59 RAL 2.80 RAD 6568.8 VEL 13.012 PTH 2.37 VHP 4.540 DPA 35.48 RAP 6.11 ECC 1.7890
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 9 19 2289.21 -21.31 46.26 237.74 109.10 1 47 28 1689.2 -18.51 38.71
 90.00 11 58 57 5218.69 26.37 234.57 241.14 79.28 13 25 56 4618.7 24.62 226.33
 100.00 2 28 30 2033.77 -22.61 26.98 237.24 110.10 3 2 24 1433.8 -19.66 19.42
 100.00 13 22 27 4949.37 27.72 214.46 240.84 78.34 14 44 57 4349.4 25.83 206.17
 110.00 3 31 48 1835.60 -26.09 10.44 235.74 112.91 4 2 23 1235.6 -22.76 2.86
 110.00 14 35 39 4720.30 31.37 196.10 239.87 75.67 15 54 19 4120.3 29.09 187.64

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3660 TRA -.7463 TC3 -.1482 BAU .3040
 RDE -.1253 RRA .4617 RC3 .4506 FAU .10774
 FDE -1.5193 FRA -1.2428 FC3 -1.9455 BSP 2426
 BDE .3868 BRA .8776 BC3 .4743 FSP -822

SGT 719.4 SGR 739.6 SG3 271.9
 RRT -.6279 RRF -.8362 RTF .6946
 SGB 1031.8 R23 .1496 R13 -.8510
 SG1 931.0 SG2 444.8 THA 133.74

ST 355.4 SR 156.0 SS 508.9
 CRT .1787 CRS -.4608 CST -.9517
 LSA 617.0 MSA 168.5 SSA 22.3
 EL1 356.7 EL2 152.9 ALF 5.50

LAUNCH DATE MAR 7 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 247.908

RL 148.46 LAL .00 LOL 166.25 VL 28.948 GAL -12.28 AZL 91.52 HCA 114.25 SMA 139.72 ECC .22133 INC 1.5217 V1 30.012
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.585 GAP -.74 AZP 89.38 TAL 241.68 TAP 355.93 RCA 108.79 APO 170.64 V2 34.816
 RC 82.981 GL -6.28 GP 33.85 ZAL 164.04 ZAP 82.10 ETS 356.86 ZAE 146.78 ETE 99.77 ZAC 101.48 ETC 156.21 CLP -80.48

PLANETOCENTRIC CONIC

C3 47.192 VHL 6.870 CLA -5.38 RAL 3.38 RAD 6568.8 VEL 12.983 PTH 2.37 VHP 4.498 DPA 35.66 RAP 3.50 ECC 1.7767
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 17 35 2260.57 -20.66 44.42 237.85 109.81 1 55 15 1660.6 -17.77 36.93
 90.00 11 55 19 5239.44 26.62 236.03 241.78 79.97 13 22 39 4639.4 24.96 227.76
 100.00 2 36 23 2006.36 -21.95 25.21 237.33 110.81 3 9 49 1406.4 -18.93 17.72
 100.00 13 19 12 4968.88 27.98 215.85 241.50 79.03 14 42 1 4368.9 26.18 207.51
 110.00 3 38 49 1810.91 -25.43 8.82 235.78 113.65 4 9 0 1210.9 -22.01 1.34
 110.00 14 33 16 4737.10 31.65 197.33 240.58 76.35 15 52 13 4137.1 29.45 188.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4173 TRA -.8077 TC3 -.2194 BAU .3330
 RDE -.0894 RRA .4586 RC3 .4801 FAU .10906
 FDE -1.5958 FRA -1.2220 FC3 -2.0007 BSP 2760
 BDE .4268 BRA .9288 BC3 .5279 FSP -852

SGT 818.4 SGR 767.0 SG3 278.3
 RRT -.6895 RRF -.8530 RTF .7528
 SGB 1121.7 R23 .1567 R13 -.8687
 SG1 1031.4 SG2 440.8 THA 137.69

ST 403.0 SR 138.7 SS 531.8
 CRT .0426 CRS -.3278 CST -.9544
 LSA 660.9 MSA 164.7 SSA 22.1
 EL1 403.1 EL2 138.6 ALF .95

LAUNCH DATE MAR 7 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 254.240

RL 148.46 LAL .00 LOL 166.25 VL 28.921 GAL -12.19 AZL 91.75 MCA 117.41 SMA 139.49 ECC .21959 INC 1.7531 V1 30.012
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.558 GAP -.25 AZP 89.19 TAL 241.21 TAP 358.62 RCA 108.86 APO 170.12 V2 34.810
 RC 85.328 GL -7.29 GP 35.00 ZAL 163.37 ZAP 86.46 ETS 359.62 ZAE 144.89 ETE 105.63 ZAC 99.48 ETC 157.20 CLP -85.67

PLANETOCENTRIC CONIC

C3 46.469 VHL 6.817 CLA -6.20 RAL 4.04 RAD 6568.7 VEL 12.955 PTH 2.36 VHP 4.484 DPA 35.82 RAP 1.00 ECC 1.7648
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 26 27 2230.95 -19.96 42.52 238.05 110.51 2 3 38 1631.0 -16.99 35.10
 90.00 11 51 45 5261.32 26.87 237.59 242.53 80.71 13 19 27 4661.3 25.31 229.26
 100.00 2 44 51 1978.04 -21.26 23.39 237.52 111.52 3 17 49 1378.0 -18.15 15.98
 100.00 13 16 2 4989.46 28.24 217.33 242.27 79.76 14 39 12 4389.5 26.53 208.94
 110.00 3 46 22 1785.45 -24.72 7.18 235.92 114.39 4 16 7 1185.5 -21.22 359.79
 110.00 14 31 1 4754.82 31.93 198.64 241.39 77.08 15 50 16 4154.8 29.82 190.06

DIFFERENTIAL CORRECTIONS

TDE -.4760 TRA -.8699 TC3 -.2952 BAU .3644
 ROE -.0533 RRA .4506 RC3 .5068 FAU .10914
 FDE-1.6582 FRA-1.1825 FC3-2.0333 BSP 3121
 BOE .4789 BRA .9797 BC3 .5865 FSP -872

MID-COURSE EXECUTION ACCURACY

SGT 928.9 SGR 790.3 SG3 281.7
 RRT -.7360 RRF -.8671 RTF .7953
 SGB 1219.6 R23 .1637 R13 -.8826
 SG1 1138.9 SG2 436.4 THA 141.22

ORBIT DETERMINATION ACCURACY

ST 457.0 SR 124.5 SS 553.2
 CRT -.1327 CRS -.1486 CST -.9572
 LSA 710.2 MSA 160.0 SSA 21.9
 EL1 457.3 EL2 123.3 ALF 177.77

LAUNCH DATE MAR 7 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 260.536

RL 148.46 LAL .00 LOL 166.25 VL 28.888 GAL -12.00 AZL 92.00 MCA 120.56 SMA 139.21 ECC .21790 INC 1.9982 V1 30.012
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.529 GAP .22 AZP 88.98 TAL 240.64 TAP 1.21 RCA 108.88 APO 169.55 V2 34.804
 RC 87.691 GL -8.37 GP 36.10 ZAL 162.58 ZAP 90.61 ETS 2.45 ZAE 142.83 ETE 110.86 ZAC 97.61 ETC 158.17 CLP -90.75

PLANETOCENTRIC CONIC

C3 45.774 VHL 6.766 CLA -7.05 RAL 4.79 RAD 6568.7 VEL 12.928 PTH 2.36 VHP 4.497 DPA 35.99 RAP 358.66 ECC 1.7533
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 36 1 2200.00 -19.21 40.56 238.36 111.21 2 12 41 1600.0 -16.16 33.21
 90.00 11 48 10 5284.72 27.12 239.25 243.40 81.52 13 16 14 4684.7 25.66 230.89
 100.00 2 54 0 1948.47 -20.51 21.52 237.81 112.24 3 26 28 1348.5 -17.31 14.18
 100.00 13 12 53 5011.48 28.49 218.91 243.15 80.56 14 36 24 4417.5 26.90 210.48
 110.00 3 54 32 1758.93 -23.97 5.49 236.17 115.14 4 23 51 1158.9 -20.38 358.19
 110.00 14 28 50 4773.78 32.21 200.05 242.33 77.87 15 48 24 4173.8 30.20 191.41

DIFFERENTIAL CORRECTIONS

TDE -.5420 TRA -.9315 TC3 -.3743 BAU .3966
 ROE -.0184 RRA .4363 RC3 .5291 FAU .10777
 FDE-1.7009 FRA-1.1209 FC3-2.0382 BSP 3483
 BOE .5423 BRA 1.0286 BC3 .6481 FSP -871

MID-COURSE EXECUTION ACCURACY

SGT 1048.4 SGR 807.1 SG3 281.2
 RRT -.7699 RRF -.8786 RTF .8259
 SGB 1323.0 R23 .1717 R13 -.8929
 SG1 1250.6 SG2 431.7 THA 144.48

ORBIT DETERMINATION ACCURACY

ST 517.4 SR 114.8 SS 571.5
 CRT -.3338 CRS .0677 CST -.9601
 LSA 763.6 MSA 154.8 SSA 21.6
 EL1 518.9 EL2 107.9 ALF 175.57

LAUNCH DATE MAR 7 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 266.796

RL 148.46 LAL .00 LOL 166.25 VL 28.851 GAL -11.86 AZL 92.26 MCA 123.72 SMA 138.90 ECC .21627 INC 2.2596 V1 30.012
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.496 GAP .66 AZP 88.75 TAL 239.98 TAP 3.70 RCA 108.86 APO 168.94 V2 34.799
 RC 90.065 GL -9.54 GP 37.17 ZAL 161.67 ZAP 94.51 ETS 5.35 ZAE 140.65 ETE 115.46 ZAC 95.89 ETC 159.08 CLP -95.66

PLANETOCENTRIC CONIC

C3 45.117 VHL 6.717 CLA -7.96 RAL 5.63 RAD 6568.7 VEL 12.903 PTH 2.35 VHP 4.536 DPA 36.20 RAP 356.49 ECC 1.7425
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 46 26 2167.31 -18.39 38.51 238.78 111.92 2 22 33 1567.3 -15.26 31.24
 90.00 11 44 26 5310.13 27.36 241.08 244.39 82.40 13 12 56 4710.1 26.02 232.66
 100.00 3 3 56 1917.29 -19.69 19.56 238.22 112.95 3 35 53 1317.3 -16.41 12.30
 100.00 13 9 37 5035.39 28.75 220.65 244.17 81.44 14 33 33 4435.4 27.27 212.16
 110.00 4 3 25 1731.05 -23.15 3.74 236.53 115.88 4 32 16 1131.1 -19.48 356.53
 110.00 14 26 38 4794.39 32.49 201.59 243.41 78.74 15 46 32 4194.4 30.60 192.88

DIFFERENTIAL CORRECTIONS

TDE -.6153 TRA -.9908 TC3 -.4555 BAU .4301
 ROE .0176 RRA .4181 RC3 .5487 FAU .10549
 FDE-1.7341 FRA-1.0489 FC3-2.0241 BSP 3879
 BOE .6156 BRA 1.0754 BC3 .7131 FSP -872

MID-COURSE EXECUTION ACCURACY

SGT 1173.9 SGR 820.5 SG3 278.6
 RRT -.7955 RRF -.8889 RTF .8483
 SGB 1432.3 R23 .1801 R13 -.9011
 SG1 1367.1 SG2 427.0 THA 147.35

ORBIT DETERMINATION ACCURACY

ST 584.2 SR 111.3 SS 590.2
 CRT -.5530 CRS .3182 CST -.9629
 LSA 824.2 MSA 149.4 SSA 21.3
 EL1 587.6 EL2 92.2 ALF 173.83

LAUNCH DATE MAR 7 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 273.022

RL 148.46 LAL .00 LOL 166.25 VL 28.809 GAL -11.71 AZL 92.54 MCA 126.88 SMA 138.54 ECC .21469 INC 2.5410 V1 30.012
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.461 GAP 1.08 AZP 88.47 TAL 239.24 TAP 6.11 RCA 108.80 APO 168.29 V2 34.795
 RC 92.449 GL -10.81 GP 38.23 ZAL 160.62 ZAP 98.14 ETS 8.32 ZAE 138.39 ETE 119.47 ZAC 94.35 ETC 159.91 CLP -100.39

PLANETOCENTRIC CONIC

C3 44.505 VHL 6.671 CLA -8.94 RAL 6.56 RAD 6568.7 VEL 12.879 PTH 2.35 VHP 4.599 DPA 36.48 RAP 354.50 ECC 1.7324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 57 51 2132.43 -17.49 36.35 239.33 112.63 2 33 23 1532.4 -14.28 29.15
 90.00 11 40 29 5338.15 27.60 243.09 245.53 83.38 13 9 27 4738.1 26.39 234.63
 100.00 3 14 50 1884.07 -18.80 17.50 238.75 113.68 3 46 14 1284.1 -15.44 10.32
 100.00 13 6 11 5061.74 29.00 222.56 245.33 82.42 14 30 32 4461.7 27.65 214.02
 110.00 4 13 9 1701.46 -22.26 1.91 237.01 116.64 4 41 30 1101.5 -18.50 354.79
 110.00 14 24 21 4817.11 32.78 203.30 244.64 79.71 15 44 38 4217.1 31.01 194.52

DIFFERENTIAL CORRECTIONS

TDE -.6962 TRA -1.0464 TC3 -.5373 BAU .4633
 ROE .0526 RRA .3939 RC3 .5636 FAU .10201
 FDE-1.7498 FRA -.9604 FC3-1.9843 BSP 4265
 BOE .6982 BRA 1.1181 BC3 .7787 FSP -855

MID-COURSE EXECUTION ACCURACY

SGT 1303.5 SGR 827.6 SG3 272.7
 RRT -.8136 RRF -.8976 RTF .8642
 SGB 1544.0 R23 .1900 R13 -.9070
 SG1 1485.1 SG2 422.3 THA 150.01

ORBIT DETERMINATION ACCURACY

ST 657.7 SR 114.5 SS 606.3
 CRT -.7377 CRS .5464 CST -.9655
 LSA 890.0 MSA 143.9 SSA 20.8
 EL1 663.1 EL2 76.7 ALF 172.58

LAUNCH DATE MAR 7 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.763 GAL -11.55 AZL 92.85 MCA 130.03 SMA 138.16 ECC .21314 INC 2.8465 V1 30.012
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.423 GAP 1.48 AZP 88.17 TAL 238.41 TAP 8.44 RCA 108.71 APO 167.61 V2 34.791
 RC 94.840 GL -12.19 GP 39.32 ZAL 159.42 ZAP 101.47 ETS 11.35 ZAE 136.09 ETE 122.94 ZAC 92.97 ETC 160.64 CLP-104.90

PLANETOCENTRIC CONIC
 C3 43.953 VHL 6.630 DLA -10.00 RAL 7.60 RAD 6568.7 VEL 12.858 PTH 2.34 VHP 4.687 DPA 36.88 RAP 352.68 ECC 1.7234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 10 27 2094.81 -16.49 34.04 240.03 113.35 2 45 22 1494.8 -13.19 26.91
 90.00 11 36 8 5369.50 27.82 245.36 246.84 84.50 13 5 38 4769.5 -26.77 236.85
 100.00 3 26 51 1848.32 -17.80 15.31 239.42 114.42 3 57 40 1248.3 -14.36 8.21
 100.00 13 2 25 5091.22 29.25 224.72 246.67 83.53 14 27 17 4491.2 28.04 216.12
 110.00 4 23 52 1669.77 -21.28 359.97 237.63 117.41 4 51 42 1069.8 -17.44 352.95
 110.00 14 21 54 4842.53 33.07 205.22 246.06 80.82 15 42 36 4242.5 31.45 196.37

MID-COURSE EXECUTION ACCURACY
 SGT 1435.8 SGR 831.9 SG3 265.2
 RRT -.8272 RRF -.9057 RTF .8762
 SGB 1659.4 R23 .2007 R13 -.9117
 SG1 1605.9 SG2 417.9 THA 152.36

ORBIT DETERMINATION ACCURACY
 ST 738.5 SR 125.5 SS 623.1
 CRT -.8707 CRS .7287 CST -.9681
 LSA 964.2 MSA 138.6 SSA 20.1
 EL1 746.5 EL2 61.0 ALF 171.53

DIFFERENTIAL CORRECTIONS
 TDE -.7859 TRA-1.0973 TC3 -.6187 BAU .4966
 RDE .0890 RRA .3662 RC3 .5758 FAU .09787
 FDE-1.7584 FRA -.8668 FC3-1.9276 BSP 4676
 BOE .7909 BRA 1.1568 BC3 .8452 FSP -837

LAUNCH DATE MAR 7 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.714 GAL -11.39 AZL 93.18 MCA 133.18 SMA 137.76 ECC .21164 INC 3.1816 V1 30.012
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.383 GAP 1.86 AZP 87.82 TAL 237.51 TAP 10.70 RCA 108.60 APO 166.91 V2 34.788
 RC 97.236 GL -13.71 GP 40.47 ZAL 158.07 ZAP 104.48 ETS 14.46 ZAE 133.76 ETE 125.91 ZAC 91.76 ETC 161.28 CLP-109.18

PLANETOCENTRIC CONIC
 C3 43.481 VHL 6.594 DLA -11.16 RAL 8.75 RAD 6568.6 VEL 12.839 PTH 2.34 VHP 4.799 DPA 37.41 RAP 351.01 ECC 1.7156
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 24 31 2053.77 -15.37 31.55 240.90 114.08 2 58 45 1453.8 -11.99 24.50
 90.00 11 31 15 5405.10 28.03 247.94 248.35 85.78 13 1 20 4805.1 -27.15 239.39
 100.00 3 40 16 1809.43 -16.69 12.95 240.27 115.16 4 10 25 1209.4 -13.17 5.94
 100.00 12 58 12 5124.67 29.48 227.18 248.21 84.80 14 23 37 4524.7 28.45 218.53
 110.00 4 35 48 1635.49 -20.19 357.91 238.42 118.19 5 3 4 1035.5 -16.26 350.98
 110.00 14 19 9 4871.38 33.36 207.42 247.69 82.09 15 40 20 4271.4 31.91 198.50

MID-COURSE EXECUTION ACCURACY
 SGT 1568.5 SGR 830.8 SG3 255.2
 RRT -.8362 RRF -.9129 RTF .8848
 SGB 1774.9 R23 .2130 R13 -.9148
 SG1 1726.0 SG2 414.1 THA 154.54

ORBIT DETERMINATION ACCURACY
 ST 826.7 SR 142.1 SS 638.3
 CRT -.9455 CRS .8476 CST -.9704
 LSA 1045.3 MSA 133.9 SSA 19.3
 EL1 837.6 EL2 45.7 ALF 170.74

DIFFERENTIAL CORRECTIONS
 TDE -.8846 TRA-1.1416 TC3 -.6980 BAU .5287
 RDE .1252 RRA .3330 RC3 .5831 FAU .09284
 FDE-1.7540 FRA -.7630 FC3-1.8485 BSP 5067
 BOE .8934 BRA 1.1892 BC3 .9095 FSP -805

LAUNCH DATE MAR 7 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.661 GAL -11.22 AZL 93.55 MCA 136.33 SMA 137.33 ECC .21019 INC 3.5532 V1 30.012
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.342 GAP 2.23 AZP 87.43 TAL 236.55 TAP 12.88 RCA 108.46 APO 166.19 V2 34.786
 RC 99.636 GL -15.39 GP 41.72 ZAL 156.53 ZAP 107.14 ETS 17.65 ZAE 131.41 ETE 128.44 ZAC 90.69 ETC 161.83 CLP-113.25

PLANETOCENTRIC CONIC
 C3 43.118 VHL 6.566 DLA -12.44 RAL 10.03 RAD 6568.6 VEL 12.825 PTH 2.33 VHP 4.937 DPA 38.11 RAP 349.45 ECC 1.7096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 40 24 2008.48 -14.09 28.84 241.98 114.82 3 13 53 1408.5 -10.63 21.87
 90.00 11 25 35 5446.15 28.20 250.93 250.09 87.27 12 56 21 4846.2 27.52 242.33
 100.00 3 55 21 1766.66 -15.44 10.40 241.32 115.92 4 24 48 1166.7 -11.83 3.47
 100.00 12 53 19 5163.21 29.68 230.03 249.99 86.29 14 19 22 4563.2 28.85 221.32
 110.00 4 49 11 1598.07 -18.97 355.69 239.40 118.98 5 15 49 998.1 -14.96 348.87
 110.00 14 15 58 4904.57 33.65 209.97 249.58 83.57 15 37 43 4304.6 32.39 200.96

MID-COURSE EXECUTION ACCURACY
 SGT 1702.5 SGR 828.3 SG3 244.1
 RRT -.8425 RRF -.9199 RTF .8915
 SGB 1893.3 R23 .2260 R13 -.9175
 SG1 1848.1 SG2 411.0 THA 156.48

ORBIT DETERMINATION ACCURACY
 ST 924.4 SR 163.1 SS 654.9
 CRT -.9818 CRS .9203 CST -.9728
 LSA 1137.3 MSA 130.0 SSA 18.2
 EL1 938.6 EL2 30.9 ALF 170.05

DIFFERENTIAL CORRECTIONS
 TDE -.9950 TRA-1.1791 TC3 -.7745 BAU .5604
 RDE .1637 RRA .2965 RC3 .5876 FAU .08744
 FDE-1.7459 FRA -.6591 FC3-1.7557 BSP 5485
 BOE 1.0084 BRA 1.2158 BC3 .9722 FSP -775

LAUNCH DATE MAR 7 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.606 GAL -11.04 AZL 93.97 MCA 139.48 SMA 136.88 ECC .20877 INC 3.9703 V1 30.012
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.299 GAP 2.57 AZP 86.98 TAL 235.52 TAP 15.00 RCA 108.30 APO 165.46 V2 34.784
 RC 102.038 GL -17.27 GP 43.10 ZAL 154.80 ZAP 109.44 ETS 20.96 ZAE 129.02 ETE 130.59 ZAC 89.74 ETC 162.28 CLP-117.11

PLANETOCENTRIC CONIC
 C3 42.902 VHL 6.550 DLA -13.88 RAL 11.46 RAD 6568.6 VEL 12.817 PTH 2.33 VHP 5.104 DPA 39.01 RAP 347.95 ECC 1.7061
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 33 1957.86 -12.63 25.84 243.32 115.56 3 31 10 1357.9 -9.08 18.96
 90.00 11 18 50 5494.25 28.30 254.45 252.11 89.03 12 50 24 4894.2 27.87 245.81
 100.00 4 12 33 1719.06 -14.00 7.59 242.62 116.68 4 41 12 1119.1 -10.31 .75
 100.00 12 47 30 5208.28 29.83 233.37 252.07 88.04 14 14 18 4608.3 29.24 224.61
 110.00 5 4 21 1556.81 -17.59 353.28 240.62 119.79 5 30 18 956.8 -13.50 346.57
 110.00 14 12 11 4943.29 33.90 212.97 251.79 85.33 15 34 35 4343.3 32.88 203.88

MID-COURSE EXECUTION ACCURACY
 SGT 1836.5 SGR 823.4 SG3 231.8
 RRT -.8460 RRF -.9264 RTF .8967
 SGB 2012.6 R23 .2396 R13 -.9197
 SG1 1970.6 SG2 409.1 THA 158.24

ORBIT DETERMINATION ACCURACY
 ST 1032.7 SR 192.8 SS 672.1
 CRT -.9950 CRS .9609 CST -.9751
 LSA 1240.5 MSA 127.2 SSA 16.9
 EL1 1050.3 EL2 18.9 ALF 169.47

DIFFERENTIAL CORRECTIONS
 TDE-1.1193 TRA-1.2080 TC3 -.8463 BAU .5910
 RDE .2041 RRA .2556 RC3 .5879 FAU .08160
 FDE-1.7323 FRA -.5539 FC3-1.6466 BSP 5909
 BOE 1.1377 BRA 1.2348 BC3 1.0304 FSP -741

LAUNCH DATE MAR 7 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 303.694

RL 148.46 LAL .00 LOL 166.25 VL 28.548 GAL -10.86 AZL 94.44 HCA 142.63 SMA 136.42 ECC .20740 INC 4.4446 V1 30.012
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.255 GAP 2.91 AZP 86.47 TAL 234.43 TAP 17.05 RCA 108.12 APO 164.71 V2 34.783
 RC 104.441 GL -19.38 GP 44.66 ZAL 152.82 ZAP 111.35 ETS 24.40 ZAE 126.59 ETE 132.42 ZAC 88.88 ETC 162.65 CLP-120.78

PLANETOCENTRIC CONIC

C3 42.889 VHL 6.549 DLA -15.50 RAL 13.06 RAD 6568.6 VEL 12.816 PTH 2.33 VHP 5.303 DPA 40.13 RAP 346.47 ECC 1.7058
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 19 36 1900.40 -10.92 22.49 245.00 116.29 3 51 16 1300.4 -7.30 15.68
 90.00 11 10 33 5551.55 28.30 258.64 254.47 91.13 12 43 5 4951.6 28.15 249.98
 100.00 4 32 26 1665.37 -12.34 4.47 244.27 117.44 5 0 12 1065.4 -8.57 357.72
 100.00 12 40 24 5261.81 29.89 237.35 254.49 90.13 14 8 6 4661.8 29.59 228.56
 110.00 5 21 46 1510.86 -16.02 350.65 242.16 120.61 5 46 57 910.9 -11.84 344.04
 110.00 14 7 34 4989.08 34.10 216.53 254.38 87.43 15 30 43 4389.1 33.37 207.36

DIFFERENTIAL CORRECTIONS

TDE-1.2597 TRA-1.2255 TC3 -.9098 BAU .6192
 ROE .2455 RRA .2082 RC3 .5817 FAU .07520
 FDE-1.7105 FRA -.4445 FC3-1.5180 BSP 6296
 BOE 1.2834 BRA 1.2430 BC3 1.0799 FSP -694

MID-COURSE EXECUTION ACCURACY

SGT 1967.9 SGR 813.9 SG3 217.8
 RRT -.8460 RRF -.9322 RTF .9005
 SGB 2129.6 R23 .2544 R13 -.9210
 SG1 2090.0 SG2 408.6 THA 159.91

ORBIT DETERMINATION ACCURACY

ST 1152.1 SR 223.3 SS 688.4
 CRT -.9968 CRS .9824 CST -.9773
 LSA 1354.7 MSA 125.8 SSA 15.4
 EL1 1173.4 EL2 17.5 ALF 169.06

LAUNCH DATE MAR 7 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 309.746

RL 148.46 LAL .00 LOL 166.25 VL 28.489 GAL -10.67 AZL 94.99 HCA 145.77 SMA 135.94 ECC .20608 INC 4.9924 V1 30.012
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.211 GAP 3.22 AZP 85.87 TAL 233.28 TAP 19.05 RCA 107.93 APO 163.96 V2 34.783
 RC 106.844 GL -21.77 GP 46.44 ZAL 150.56 ZAP 112.85 ETS 28.01 ZAE 124.08 ETE 133.98 ZAC 88.06 ETC 162.97 CLP-124.30

PLANETOCENTRIC CONIC

C3 43.163 VHL 6.570 DLA -17.34 RAL 14.87 RAD 6568.6 VEL 12.827 PTH 2.34 VHP 5.542 DPA 41.49 RAP 344.90 ECC 1.7103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 30 1833.97 -8.89 18.66 247.14 117.00 4 15 4 1234.0 -5.20 11.93
 90.00 11 0 6 5621.19 28.10 263.72 257.22 93.67 12 33 47 5021.2 28.31 255.06
 100.00 4 55 49 1603.84 -10.38 .95 246.35 118.19 5 22 33 1003.8 -6.54 354.28
 100.00 12 31 28 5326.54 29.78 242.16 257.33 92.66 14 0 15 4726.5 29.84 233.35
 110.00 5 42 1 1459.11 -14.20 347.74 244.11 121.42 6 6 20 859.1 -9.94 341.23
 110.00 14 1 46 5044.04 34.18 220.82 257.45 89.96 15 25 50 4444.0 33.80 211.60

DIFFERENTIAL CORRECTIONS

TDE-1.4237 TRA-1.2315 TC3 -.9642 BAU .6465
 ROE .2907 RRA .1563 RC3 .5705 FAU .06868
 FDE-1.6891 FRA -.3402 FC3-1.3776 BSP 6716
 BOE 1.4531 BRA 1.2414 BC3 1.1203 FSP -651

MID-COURSE EXECUTION ACCURACY

SGT 2100.6 SGR 804.1 SG3 203.4
 RRT -.8437 RRF -.9375 RTF .9042
 SGB 2249.3 R23 .2684 R13 -.9227
 SG1 2211.6 SG2 409.9 THA 161.44

ORBIT DETERMINATION ACCURACY

ST 1287.3 SR 258.1 SS 707.3
 CRT -.9936 CRS .9933 CST -.9796
 LSA 1485.9 MSA 125.7 SSA 13.6
 EL1 1312.6 EL2 28.7 ALF 168.73

LAUNCH DATE MAR 7 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 315.773

RL 148.46 LAL .00 LOL 166.25 VL 28.427 GAL -10.47 AZL 95.64 HCA 148.91 SMA 135.46 ECC .20480 INC 5.6365 V1 30.012
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.166 GAP 3.52 AZP 85.17 TAL 232.08 TAP 21.00 RCA 107.72 APO 163.20 V2 34.784
 RC 109.246 GL -24.50 GP 48.50 ZAL 147.97 ZAP 113.91 ETS 31.81 ZAE 121.45 ETE 135.35 ZAC 87.25 ETC 163.27 CLP-127.70

PLANETOCENTRIC CONIC

C3 43.849 VHL 6.622 DLA -19.44 RAL 16.94 RAD 6568.7 VEL 12.854 PTH 2.34 VHP 5.833 DPA 43.10 RAP 343.16 ECC 1.7216
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 45 1755.17 -6.42 14.18 249.91 117.64 4 44 0 1155.2 -2.67 7.51
 90.00 10 46 23 5707.94 27.56 270.01 260.43 96.78 12 21 31 5107.9 28.21 261.41
 100.00 5 23 57 1531.84 -8.04 356.89 249.04 118.89 5 49 29 931.8 -4.13 350.29
 100.00 12 19 52 5406.50 29.39 248.06 260.66 95.75 13 49 58 4806.5 29.87 239.29
 110.00 6 6 0 1400.06 -12.08 344.48 246.62 122.22 6 29 20 800.1 -7.74 338.07
 110.00 13 54 18 5111.05 34.06 226.05 261.08 93.06 15 19 29 4511.0 34.11 216.80

DIFFERENTIAL CORRECTIONS

TDE-1.6163 TRA-1.2211 TC3-1.0033 BAU .6707
 ROE .3373 RRA .0960 RC3 .5499 FAU .06177
 FDE-1.6616 FRA -.2358 FC3-1.2196 BSP 7097
 BOE 1.6611 BRA 1.2249 BC3 1.1441 FSP -599

MID-COURSE EXECUTION ACCURACY

SGT 2230.9 SGR 789.4 SG3 187.8
 RRT -.8372 RRF -.9413 RTF .9074
 SGB 2366.4 R23 .2822 R13 -.9241
 SG1 2330.1 SG2 413.4 THA 162.94

ORBIT DETERMINATION ACCURACY

ST 1438.9 SR 293.8 SS 725.8
 CRT -.9884 CRS .9982 CST -.9819
 LSA 1633.1 MSA 127.2 SSA 11.8
 EL1 1467.9 EL2 43.8 ALF 168.58

LAUNCH DATE MAR 7 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 321.775

RL 148.46 LAL .00 LOL 166.25 VL 28.365 GAL -10.27 AZL 96.41 HCA 152.05 SMA 134.97 ECC .20358 INC 6.4096 V1 30.012
 RP 108.94 LAP -3.00 LOP 318.45 VP 38.120 GAP 3.81 AZP 84.33 TAL 230.83 TAP 22.88 RCA 107.49 APO 162.44 V2 34.785
 RC 111.645 GL -27.63 GP 50.89 ZAL 144.97 ZAP 114.48 ETS 35.86 ZAE 118.65 ETE 136.60 ZAC 86.38 ETC 163.60 CLP-131.06

PLANETOCENTRIC CONIC

C3 45.149 VHL 6.719 DLA -21.85 RAL 19.34 RAD 6568.7 VEL 12.904 PTH 2.35 VHP 6.193 DPA 44.98 RAP 341.10 ECC 1.7430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 55 1657.75 -3.32 8.71 253.60 118.14 5 20 32 1057.7 .47 2.08
 90.00 10 27 19 5820.06 26.40 278.01 264.12 100.62 12 4 19 5220.1 27.60 269.55
 100.00 5 58 52 1444.88 -5.15 352.05 252.59 119.49 6 22 57 844.9 -1.19 345.51
 100.00 12 4 3 5508.15 28.46 255.48 264.54 99.54 13 35 51 4908.2 29.49 246.82
 110.00 6 35 1 1331.54 -9.57 340.76 249.89 122.97 6 57 13 731.5 -5.16 334.45
 110.00 13 44 23 5194.25 33.57 232.50 265.39 96.84 15 10 57 4594.3 34.16 223.30

DIFFERENTIAL CORRECTIONS

TDE-1.8509 TRA-1.1923 TC3-1.0235 BAU .6928
 ROE .5863 RRA .0276 RC3 .5194 FAU .05477
 FDE-1.6344 FRA -.1382 FC3-1.0503 BSP 7516
 BOE 1.8908 BRA 1.1926 BC3 1.1478 FSP -550

MID-COURSE EXECUTION ACCURACY

SGT 2362.7 SGR 772.3 SG3 171.7
 RRT -.8263 RRF -.9431 RTF .9114
 SGB 2485.7 R23 .2934 R13 -.9264
 SG1 2450.1 SG2 419.4 THA 164.42

ORBIT DETERMINATION ACCURACY

ST 1612.6 SR 330.2 SS 746.4
 CRT -.9828 CRS .9994 CST -.9842
 LSA 1802.7 MSA 129.9 SSA 9.9
 EL1 1645.0 EL2 59.8 ALF 168.61

LAUNCH DATE MAR 7 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.301 GAL -10.05 AZL 97.36 MCA 155.19 SMA 134.47 ECC .20240 INC 7.3609 V1 30.012
 RP 108.93 LAP -3.08 LOP 321.61 VP 38.075 GAP 4.09 AZP 83.31 TAL 229.54 TAP 24.72 RCA 107.25 APO 161.69 V2 34.787
 RC 114.042 GL -31.24 GP 53.68 ZAL 141.49 ZAP 114.51 ETS 40.23 ZAE 115.61 ETE 137.87 ZAC 85.37 ETC 164.07 CLP-134.47

PLANETOCENTRIC CONIC
 C3 47.393 VHL 6.884 DLA -24.62 RAL 22.15 RAD 6568.8 VEL 12.991 PTH 2.37 VHP 6.650 DPA 47.14 RAP 338.52 ECC 1.7800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 44 45 1526.62 .91 1.39 258.73 118.30 6 10 12 926.6 4.69 354.75
 90.00 9 57 55 687.48 24.00 310.85 268.15 105.49 10 9 23 87.5 25.90 302.70
 100.00 6 44 33 1333.59 -1.40 345.93 257.45 119.86 7 6 46 733.6 2.59 339.40
 100.00 11 40 49 5643.78 26.55 265.10 268.90 104.26 13 14 53 5043.8 28.25 256.71
 110.00 7 11 11 1250.03 -6.52 336.42 254.27 123.63 7 32 1 650.0 -2.05 330.18
 110.00 13 30 40 5300.11 32.42 240.54 270.44 101.47 14 59 0 4700.1 33.66 231.52

DIFFERENTIAL CORRECTIONS
 TOE-2.1434 TRA-1.1373 TC3-1.0165 BAU .7109 SGT 2495.0 SGR 748.3 SG3 155.0 ST 1811.5 SR 361.7 SS 767.6
 RDE .4336 RRA -.0530 RC3 .4748 FAU .04760 RRT -.8078 RRF -.9405 RTF .9163 CRT -.9768 CRS .9984 CST -.9866
 FDE-1.6047 FRA -.0456 FC3 -.8695 BSP 7936 SCB 2604.8 R23 .3014 R13 -.9296 LSA 1995.9 MSA 133.7 SSA 8.1
 BOE 2.1868 BRA 1.1385 BC3 1.1219 FSP -498 SG1 2569.3 SG2 428.3 THA 165.98 EL1 1845.7 EL2 76.0 ALF 168.95

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.235 GAL -9.83 AZL 98.57 MCA 158.31 SMA 133.97 ECC .20126 INC 8.5674 V1 30.012
 RP 108.93 LAP -3.16 LOP 324.78 VP 38.029 GAP 4.35 AZP 82.03 TAL 228.19 TAP 26.51 RCA 107.01 APO 160.93 V2 34.790
 RC 116.435 GL -35.41 GP 56.95 ZAL 137.43 ZAP 113.95 ETS 45.05 ZAE 112.23 ETE 139.33 ZAC 84.13 ETC 164.84 CLP-138.11

PLANETOCENTRIC CONIC
 C3 51.166 VHL 7.153 DLA -27.79 RAL 25.52 RAD 6568.9 VEL 13.135 PTH 2.40 VHP 7.248 DPA 49.52 RAP 335.14 ECC 1.8421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 54 1281.92 8.69 347.62 267.04 117.06 7 38 16 681.9 12.25 340.75
 90.00 8 52 41 970.43 17.67 329.16 271.29 112.49 9 8 51 370.4 20.57 321.69
 100.00 7 52 16 1167.61 4.22 336.81 264.61 119.62 8 11 43 567.6 8.14 330.21
 100.00 11 0 0 5848.01 22.40 278.84 273.26 110.33 12 37 28 5248.0 24.96 270.98
 110.00 7 58 23 1148.35 -2.66 331.08 260.34 124.09 8 17 32 548.4 1.83 324.88
 110.00 13 10 22 5440.03 30.07 250.75 276.15 107.08 14 41 2 4840.0 32.11 242.14

DIFFERENTIAL CORRECTIONS
 TOE-2.5186 TRA-1.0434 TC3 -.9716 BAU .7216 SGT 2625.7 SGR 710.5 SG3 137.4 ST 2037.6 SR 377.4 SS 787.9
 RDE .4679 RRA -.1512 RC3 .4110 FAU .04019 RRT -.7739 RRF -.9279 RTF .9225 CRT -.9689 CRS .9948 CST -.9889
 FDE-1.5702 FRA .0432 FC3 -.6800 BSP 8308 SCB 2720.1 R23 .3051 R13 -.9338 LSA 2212.7 MSA 138.3 SSA 6.5
 BOE 2.5616 BRA 1.0543 BC3 1.0549 FSP -439 SG1 2684.3 SG2 440.1 THA 167.84 EL1 2070.2 EL2 91.9 ALF 169.80

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.170 GAL -9.60 AZL 100.16 MCA 161.43 SMA 133.47 ECC .20017 INC10.1575 V1 30.012
 RP 108.91 LAP -3.22 LOP 327.95 VP 37.983 GAP 4.60 AZP 80.36 TAL 226.81 TAP 28.23 RCA 106.75 APO 160.18 V2 34.794
 RC 118.823 GL -40.21 GP 60.77 ZAL 132.68 ZAP 112.73 ETS 50.57 ZAE 108.41 ETE 141.33 ZAC 82.52 ETC 166.24 CLP-142.32

PLANETOCENTRIC CONIC
 C3 57.576 VHL 7.588 DLA -31.36 RAL 29.65 RAD 6569.0 VEL 13.377 PTH 2.44 VHP 8.065 DPA 52.06 RAP 330.53 ECC 1.9475
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.92 6 30 1 1512.46 13.75 7.33 275.96 118.47 6 55 14 912.5 17.45 .38
 104.08 10 12 30 798.17 13.77 314.55 275.97 118.46 10 25 48 198.2 17.46 307.60
 75.92 6 30 1 1512.46 13.75 7.33 275.96 118.47 6 55 14 912.5 17.45 .38
 104.08 10 12 30 798.17 13.77 314.55 275.97 118.46 10 25 48 198.2 17.46 307.60
 110.00 9 6 24 1004.43 2.84 323.57 269.28 124.08 9 23 9 404.4 7.30 317.31
 110.00 12 35 17 5642.24 25.22 264.47 281.92 113.88 14 9 19 5042.2 28.23 256.59

DIFFERENTIAL CORRECTIONS
 TOE-3.0220 TRA -.8930 TC3 -.8801 BAU .7226 SGT 2759.4 SGR 653.2 SG3 119.7 ST 2294.5 SR 359.7 SS 809.3
 RDE .4664 RRA -.2698 RC3 .3267 FAU .03281 RRT -.7087 RRF -.8905 RTF .9318 CRT -.9539 CRS .9850 CST -.9914
 FDE-1.5373 FRA .1234 FC3 -.4934 BSP 8708 SCB 2835.7 R23 .3000 R13 -.9405 LSA 2455.3 MSA 142.9 SSA 5.0
 BOE 3.0578 BRA .9328 BC3 .9388 FSP -382 SG1 2799.0 SG2 454.3 THA 170.22 EL1 2320.1 EL2 106.7 ALF 171.48

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 28.103 GAL -9.35 AZL 102.36 MCA 164.52 SMA 132.97 ECC .19909 INC12.3605 V1 30.012
 RP 108.90 LAP -3.27 LOP 331.12 VP 37.938 GAP 4.84 AZP 78.07 TAL 225.37 TAP 29.90 RCA 106.49 APO 159.44 V2 34.798
 RC 121.206 GL -45.64 GP 65.21 ZAL 127.16 ZAP 110.80 ETS 57.39 ZAE 103.96 ETE 144.63 ZAC 80.37 ETC 168.96 CLP-147.85

PLANETOCENTRIC CONIC
 C3 68.925 VHL 8.302 DLA -35.24 RAL 34.83 RAD 6569.3 VEL 13.794 PTH 2.52 VHP 9.240 DPA 54.51 RAP 324.10 ECC 2.1343
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.08 6 1 3 1708.85 13.70 22.45 284.63 122.80 6 29 31 1108.8 17.92 15.80
 111.92 11 22 45 688.63 13.71 306.07 284.64 122.79 11 34 14 88.6 17.94 299.43
 68.08 6 1 3 1708.85 13.70 22.45 284.63 122.80 6 29 31 1108.8 17.92 15.80
 111.92 11 22 45 688.63 13.71 306.07 284.64 122.79 11 34 14 88.6 17.94 299.43
 68.08 6 1 3 1708.85 13.70 22.45 284.63 122.80 6 29 31 1108.8 17.92 15.80
 111.92 11 22 45 688.63 13.71 306.07 284.64 122.79 11 34 14 88.6 17.94 299.43

DIFFERENTIAL CORRECTIONS
 TOE-3.7211 TRA -.6436 TC3 -.7313 BAU .7038 SGT 2892.3 SGR 561.5 SG3 101.9 ST 2573.5 SR 265.3 SS 831.4
 RDE .3526 RRA -.4141 RC3 .2202 FAU .02541 RRT -.5410 RRF -.7637 RTF .9448 CRT -.8910 CRS .9361 CST -.9937
 FDE-1.5071 FRA .1992 FC3 -.3192 BSP 9063 SCB 2946.3 R23 .2838 R13 -.9499 LSA 2713.5 MSA 147.0 SSA 3.8
 BOE 3.7378 BRA .7653 BC3 .7638 FSP -322 SG1 2908.6 SG2 469.6 THA 173.84 EL1 2584.4 EL2 119.9 ALF 174.74

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 351.353

RL 148.46 LAL .00 LOL 166.25 VL 28.036 GAL -9.10 AZL 105.63 MCA 167.59 SMA 132.47 ECC .19802 INC15.6275 V1 30.012
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.892 GAP 5.06 AZP 74.72 TAL 223.89 TAP 31.48 RCA 106.24 APO 158.70 V2 34.803
 RC 123.581 GL -51.56 GP 70.23 ZAL 120.83 ZAP 108.10 ETS 67.04 ZAE 98.64 ETE 150.83 ZAC 77.39 ETC 174.68 CLP-156.65

PLANETOCENTRIC CONIC

C3 90.642 VML 9.521 DLA -39.14 RAL 41.44 RAD 6569.8 VEL 14.560 PTH 2.64 VMP 11.051 DPA 56.42 RAP 315.08 ECC 2.4917
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.77 5 54 35 1868.11 12.43 34.47 295.70 127.41 6 25 43 1268.1 17.20 28.24
 118.23 12 21 53 655.04 12.43 302.46 295.71 127.41 12 32 48 55.0 17.22 296.23
 61.77 5 54 35 1868.11 12.43 34.47 295.70 127.41 6 25 43 1268.1 17.20 28.24
 118.23 12 21 53 655.04 12.43 302.46 295.71 127.41 12 32 48 55.0 17.22 296.23
 61.77 5 54 35 1868.11 12.43 34.47 295.70 127.41 6 25 43 1268.1 17.20 28.24
 118.23 12 21 53 655.04 12.43 302.46 295.71 127.41 12 32 48 55.0 17.22 296.23

DIFFERENTIAL CORRECTIONS

TDE-4.7193 TRA -2.089 TC3 -.5240 BAU .6469
 RDE -1.092 RRA -.5625 RC3 .1019 FAU .01816
 FDE-1.4963 FRA .2742 FC3 -.1735 BSP 9439
 BOE 4.7205 BRA .6000 BC3 .5338 FSP -268

MID-COURSE EXECUTION ACCURACY

SGT 3014.6 SGR 482.1 SG3 84.9
 RRT .0438 RRF -.2065 RTF .9631
 SGB 3052.9 R23 -.2500 R13 .9628
 SG1 3014.7 SG2 481.7 THA .41

ORBIT DETERMINATION ACCURACY

ST 2840.7 SR 146.6 SS 862.0
 CRT .4630 CRS -.3835 CST -.9961
 LSA 2968.4 MSA 149.1 SSA 2.9
 EL1 2841.5 EL2 129.9 ALF 1.37

LAUNCH DATE MAR 7 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 357.114

RL 148.46 LAL .00 LOL 166.25 VL 27.969 GAL -8.82 AZL 110.97 MCA 170.59 SMA 131.97 ECC .19686 INC20.9673 V1 30.012
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.848 GAP 5.25 AZP 69.29 TAL 222.33 TAP 32.93 RCA 105.99 APO 157.95 V2 34.808
 RC 125.948 GL -57.38 GP 75.30 ZAL 113.78 ZAP 104.64 ETS 83.96 ZAE 91.94 ETE 164.52 ZAC 73.02 ETC 188.00 CLP-174.85

PLANETOCENTRIC CONIC

C3 137.879 VML 11.742 DLA -42.27 RAL 49.89 RAD 6570.5 VEL 16.100 PTH 2.83 VMP 14.114 DPA 56.79 RAP 302.88 ECC 3.2691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.20 6 7 57 2010.90 9.43 44.17 309.34 131.40 6 41 27 1410.9 14.66 38.39
 122.80 13 16 3 684.09 9.45 302.41 309.36 131.39 13 27 27 84.1 14.67 296.63
 57.20 6 7 57 2010.90 9.43 44.17 309.34 131.40 6 41 27 1410.9 14.66 38.39
 122.80 13 16 3 684.09 9.45 302.41 309.36 131.39 13 27 27 84.1 14.67 296.63
 57.20 6 7 57 2010.90 9.43 44.17 309.34 131.40 6 41 27 1410.9 14.66 38.39
 122.80 13 16 3 684.09 9.45 302.41 309.36 131.39 13 27 27 84.1 14.67 296.63

DIFFERENTIAL CORRECTIONS

TDE-5.9517 TRA .6151 TC3 -.2701 BAU .4979
 RDE-1.7928 RRA -.5374 RC3 .0061 FAU .01069
 FDE-1.5374 FRA .3709 FC3 -.0671 BSP 9774
 BOE 6.2159 BRA .8168 BC3 .2701 FSP -219

MID-COURSE EXECUTION ACCURACY

SGT 3000.1 SGR 944.0 SG3 69.5
 RRT .8431 RRF .7469 RTF .9850
 SGB 3145.1 R23 -.1976 R13 .9774
 SG1 3106.7 SG2 490.2 THA 15.25

ORBIT DETERMINATION ACCURACY

ST 2906.7 SR 881.3 SS 919.2
 CRT .9868 CRS -.9762 CST -.9985
 LSA 3169.9 MSA 149.8 SSA 2.2
 EL1 3034.3 EL2 137.0 ALF 16.69

LAUNCH DATE MAR 7 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 362.706

RL 148.46 LAL .00 LOL 166.25 VL 27.901 GAL -8.50 AZL 121.06 MCA 173.44 SMA 131.48 ECC .19539 INC31.0587 V1 30.012
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.804 GAP 5.39 AZP 59.11 TAL 220.66 TAP 34.11 RCA 105.79 APO 157.17 V2 34.815
 RC 128.306 GL -61.15 GP 76.98 ZAL 106.34 ZAP 100.55 ETS 118.08 ZAE 82.67 ETE 195.72 ZAC 65.93 ETC 219.15 CLP 144.31

PLANETOCENTRIC CONIC

C3 264.158 VML 16.253 DLA -42.75 RAL 60.07 RAD 6571.5 VEL 19.633 PTH 3.12 VMP 20.032 DPA 53.54 RAP 288.13 ECC 5.3474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.53 6 45 47 2121.74 4.79 49.73 324.85 132.53 7 21 8 1521.7 10.16 44.17
 123.47 13 59 26 779.89 4.80 306.64 324.87 132.53 14 12 25 179.9 10.18 301.08
 56.53 6 45 47 2121.74 4.79 49.73 324.85 132.53 7 21 8 1521.7 10.16 44.17
 123.47 13 59 26 779.89 4.80 306.64 324.87 132.53 14 12 25 179.9 10.18 301.08
 56.53 6 45 47 2121.74 4.79 49.73 324.85 132.53 7 21 8 1521.7 10.16 44.17
 123.47 13 59 26 779.89 4.80 306.64 324.87 132.53 14 12 25 179.9 10.18 301.08

DIFFERENTIAL CORRECTIONS

TDE-5.1120 TRA 1.9028 TC3 -.0435 BAU .1884
 RDE-6.9364 RRA .7097 RC3 .0309 FAU .00082
 FDE-1.7131 FRA .5620 FC3 -.0027 BSP 9878
 BOE 8.6166 BRA 2.0308 BC3 .0534 FSP -179

MID-COURSE EXECUTION ACCURACY

SGT 2025.3 SGR 2470.9 SG3 57.2
 RRT .9399 RRF .9592 RTF .9972
 SGB 3194.9 R23 -.1450 R13 .9887
 SG1 3148.4 SG2 542.8 THA 51.01

ORBIT DETERMINATION ACCURACY

ST 1822.8 SR 2447.4 SS 1054.6
 CRT .9940 CRS -.9958 CST -.9998
 LSA 3224.3 MSA 167.9 SSA 1.3
 EL1 3047.4 EL2 159.5 ALF 53.37

LAUNCH DATE MAR 7 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 367.796

RL 148.46 LAL .00 LOL 166.25 VL 27.833 GAL -8.07 AZL 144.19 MCA 175.82 SMA 130.99 ECC .19281 INC54.1896 V1 30.012
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.760 GAP 5.38 AZP 35.88 TAL 218.69 TAP 34.51 RCA 105.73 APO 156.24 V2 34.821
 RC 130.653 GL -56.93 GP 66.32 ZAL 99.40 ZAP 96.33 ETS 157.42 ZAE 67.22 ETE 231.85 ZAC 52.18 ETC 256.75 CLP 105.92

PLANETOCENTRIC CONIC

C3 711.197 VML 26.668 DLA -35.67 RAL 69.66 RAD 6572.7 VEL 28.853 PTH 3.43 VMP 33.323 DPA 41.98 RAP 273.91 ECC12.7045
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.35 8 15 51 2065.33 .47 41.52 338.99 125.66 8 50 16 1465.3 5.12 35.42
 112.65 13 45 49 1020.31 .48 323.18 339.00 125.66 14 2 50 420.3 5.13 317.08
 67.35 8 15 51 2065.33 .47 41.52 338.99 125.66 8 50 16 1465.3 5.12 35.42
 112.65 13 45 49 1020.31 .48 323.18 339.00 125.66 14 2 50 420.3 5.13 317.08
 67.35 8 15 51 2065.33 .47 41.52 338.99 125.66 8 50 16 1465.3 5.12 35.42
 112.65 13 45 49 1020.31 .48 323.18 339.00 125.66 14 2 50 420.3 5.13 317.08

DIFFERENTIAL CORRECTIONS

TDE 1.2617 TRA 1.8938 TC3 -.0280 BAU 1.5705
 RD-12.1011 RRA 4.8116 RC3 .1628 FAU-.02294
 FDE-2.1796 FRA 1.1007 FC3 .0279 BSP 9595
 BOE12.1667 BRA 5.1709 BC3 .1652 FSP -158

MID-COURSE EXECUTION ACCURACY

SGT 588.7 SGR 3022.0 SG3 49.3
 RRT -.1108 RRF .9949 RTF -.0101
 SGB 3078.8 R23 -.1051 R13 .9945
 SG1 3022.7 SG2 585.0 THA 91.28

ORBIT DETERMINATION ACCURACY

ST 310.0 SR 2627.9 SS 1371.5
 CRT -.7950 CRS -.9993 CST .7710
 LSA 2974.0 MSA 195.1 SSA .4
 EL1 2639.5 EL2 187.2 ALF 95.38

LAUNCH DATE MAR 7 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

RL 148.46 LAL .00 LOL 166.25 VL 27.766 GAL -8.76 AZL 12.03 MCA 183.47 SMA 130.50 ECC .20414 INC77.9697 V1 30.012
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.717 GAP 6.90 AZP 167.95 TAL 219.47 TAP 42.94 RCA 103.86 APO 157.15 V2 34.829
 RC 132.989 GL 47.34 GP -53.17 ZAL 97.36 ZAP 95.86 ETS 182.23 ZAE 58.37 ETE 111.14 ZAC 67.40 ETC 85.81 CLP 99.80

PLANETOCENTRIC CONIC

C31332.167 VHL 36.499 DLA 66.88 RAL 43.97 RAD 6573.1 VEL 38.124 PTH 3.55 VHP 45.758 DPA -76.55 RAP 249.89 ECC22.9241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.49 16 10 28 5082.31 1.10 245.39 314.44 23.12 17 35 10 4482.3 -6.26 242.66
 153.51 2 26 15 3350.55 1.11 99.23 314.43 23.12 3 22 6 2750.5 -6.25 96.50
 26.49 16 10 28 5082.31 1.10 245.39 314.44 23.12 17 35 10 4482.3 -6.26 242.66
 153.51 2 26 15 3350.55 1.11 99.23 314.43 23.12 3 22 6 2750.5 -6.25 96.50
 26.49 16 10 28 5082.31 1.10 245.39 314.44 23.12 17 35 10 4482.3 -6.26 242.66
 153.51 2 26 15 3350.55 1.11 99.23 314.43 23.12 3 22 6 2750.5 -6.25 96.50

DIFFERENTIAL CORRECTIONS

TOE-4.2300 TRA 1.3179 TC3 -.0884 BAU 3.5451 SGT 1065.5 SGR 2675.0 SG3 47.7 ST 682.9 SR 2336.7 SS 1930.4
 RDE-14.8833 RRA .1136 RC3 -.1783 FAU-.05434 RRT .8476 RRF -.9994 RTF -.8300 CRT .9741 CRS 1.0000 CST .9721
 FDE 3.1100 FRA .0111 FC3 .0353 BSP 8380 SGB 2879.4 R23 -.0984 R13 -.9951 LSA 3103.1 MSA 153.6 SSA .7
 BDE15.4727 BRA 1.3227 BC3 .1991 FSP -149 SG1 2829.3 SG2 534.6 THA 70.63 EL1 2429.9 EL2 148.5 ALF 74.05

LAUNCH DATE MAR 7 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

RL 148.46 LAL .00 LOL 166.25 VL 27.698 GAL -8.17 AZL 48.97 MCA 185.16 SMA 130.03 ECC .19975 INC41.0295 V1 30.012
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.675 GAP 6.69 AZP 130.91 TAL 217.19 TAP 42.35 RCA 104.05 APO 156.00 V2 34.837
 RC 135.313 GL 60.20 GP -71.88 ZAL 102.20 ZAP 100.09 ETS 203.34 ZAE 80.08 ETE 129.41 ZAC 88.28 ETC 108.48 CLP 124.29

PLANETOCENTRIC CONIC

C3 430.121 VHL 20.739 DLA 71.80 RAL 1.72 RAD 6572.2 VEL 23.482 PTH 3.29 VHP 25.900 DPA -81.19 RAP 61.30 ECC 8.0787
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 20.78 13 9 37 5030.65 -3.24 247.17 270.67 18.23 14 33 28 4430.6 -10.84 245.04
 159.22 23 46 9 3266.77 -3.24 94.95 270.65 18.23 24 40 36 2666.8 -10.83 92.83
 20.78 13 9 37 5030.65 -3.24 247.17 270.67 18.23 14 33 28 4430.6 -10.84 245.04
 159.22 23 46 9 3266.77 -3.24 94.95 270.65 18.23 24 40 36 2666.8 -10.83 92.83
 20.78 13 9 37 5030.65 -3.24 247.17 270.67 18.23 14 33 28 4430.6 -10.84 245.04
 159.22 23 46 9 3266.77 -3.24 94.95 270.65 18.23 24 40 36 2666.8 -10.83 92.83

DIFFERENTIAL CORRECTIONS

TOE 2.3374 TRA .1850 TC3 -.0241 BAU .7207 SGT 673.6 SGR 3363.5 SG3 54.0 ST 647.6 SR 2141.5 SS 1005.0
 RDE-7.1903 RRA 3.0142 RC3 -.1230 FAU-.00639 RRT -.3511 RRF -.9910 RTF .4683 CRT -.8966 CRS .9971 CST -.9276
 FDE 1.5498 FRA .5113 FC3 .0129 BSP 10597 SGB 3430.3 R23 -.1150 R13 -.9926 LSA 2436.7 MSA 279.2 SSA 1.6
 BDE 7.5607 BRA 3.0199 BC3 .1253 FSP -175 SG1 3372.1 SG2 629.1 THA 94.17 EL1 2220.1 EL2 276.6 ALF 105.42

LAUNCH DATE MAR 7 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

RL 148.46 LAL .00 LOL 166.25 VL 27.631 GAL -7.78 AZL 64.46 MCA 187.83 SMA 129.55 ECC .19814 INC25.5431 V1 30.012
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.633 GAP 6.76 AZP 115.33 TAL 215.34 TAP 43.17 RCA 103.88 APO 155.22 V2 34.846
 RC 137.625 GL 60.19 GP -73.73 ZAL 107.94 ZAP 105.74 ETS 252.97 ZAE 92.21 ETE 177.72 ZAC 99.12 ETC 158.25 CLP 165.55

PLANETOCENTRIC CONIC

C3 185.074 VHL 13.604 DLA 66.60 RAL 350.63 RAD 6571.0 VEL 17.504 PTH 2.97 VHP 16.909 DPA -68.30 RAP 56.24 ECC 4.0458
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.82 12 38 28 4907.74 -9.73 241.21 256.39 23.76 14 0 16 4307.7 -17.03 238.26
 153.18 22 48 49 3178.17 -9.72 95.41 256.37 23.76 23 41 48 2578.2 -17.03 92.47
 26.82 12 38 28 4907.74 -9.73 241.21 256.39 23.76 14 0 16 4307.7 -17.03 238.26
 153.18 22 48 49 3178.17 -9.72 95.41 256.37 23.76 23 41 48 2578.2 -17.03 92.47
 26.82 12 38 28 4907.74 -9.73 241.21 256.39 23.76 14 0 16 4307.7 -17.03 238.26
 153.18 22 48 49 3178.17 -9.72 95.41 256.37 23.76 23 41 48 2578.2 -17.03 92.47

DIFFERENTIAL CORRECTIONS

TOE 3.3246 TRA-2.4071 TC3 -.1146 BAU .2891 SGT 2927.9 SGR 2159.0 SG3 65.4 ST 1595.9 SR 774.5 SS 638.9
 RDE-1.0582 RRA 1.9913 RC3 .0228 FAU .01057 RRT -.9544 RRF -.9295 RTF .9959 CRT -.8973 CRS .8734 CST -.9987
 FDE .9355 FRA -.5968 FC3 -.0495 BSP 11333 SGB 3637.9 R23 -.1747 R13 -.9830 LSA 1857.8 MSA 322.4 SSA 1.8
 BDE 3.4890 BRA 3.1240 BC3 .1169 FSP -214 SG1 3599.9 SG2 524.3 THA 143.98 EL1 1746.2 EL2 312.5 ALF 155.64

LAUNCH DATE MAR 7 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

RL 148.46 LAL .00 LOL 166.25 VL 27.564 GAL -7.45 AZL 71.84 MCA 190.78 SMA 129.09 ECC .19736 INC18.1579 V1 30.012
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.593 GAP 6.90 AZP 107.86 TAL 213.60 TAP 44.39 RCA 103.61 APO 154.56 V2 34.855
 RC 139.923 GL 56.22 GP -68.24 ZAL 113.09 ZAP 111.61 ETS 280.25 ZAE 100.27 ETE 203.29 ZAC 106.06 ETC 184.89 CLP-173.33

PLANETOCENTRIC CONIC

C3 105.016 VHL 10.248 DLA 61.37 RAL 352.20 RAD 6570.0 VEL 15.045 PTH 2.71 VHP 12.719 DPA -58.93 RAP 52.22 ECC 2.7283
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 32.97 12 59 10 4778.73 -15.57 233.64 253.47 29.83 14 18 49 4178.7 -22.47 229.76
 147.03 22 40 38 3095.90 -15.56 94.88 253.45 29.83 23 32 14 2495.9 -22.46 91.01
 32.97 12 59 10 4778.73 -15.57 233.64 253.47 29.83 14 18 49 4178.7 -22.47 229.76
 147.03 22 40 38 3095.90 -15.56 94.88 253.45 29.83 23 32 14 2495.9 -22.46 91.01
 32.97 12 59 10 4778.73 -15.57 233.64 253.47 29.83 14 18 49 4178.7 -22.47 229.76
 147.03 22 40 38 3095.90 -15.56 94.88 253.45 29.83 23 32 14 2495.9 -22.46 91.01

DIFFERENTIAL CORRECTIONS

TOE 2.4063 TRA-2.8496 TC3 -.4323 BAU .6070 SGT 3695.0 SGR 720.8 SG3 79.9 ST 1675.1 SR 291.9 SS 570.0
 RDE .3677 RRA .5920 RC3 .0047 FAU .02009 RRT -.7618 RRF -.6052 RTF .9739 CRT .1428 CRS -.3446 CST -.9783
 FDE .8433 FRA -.6168 FC3 -.1656 BSP 11744 SGB 3764.6 R23 -.2292 R13 -.9698 LSA 1766.6 MSA 308.8 SSA 2.4
 BDE 2.4343 BRA 2.9105 BC3 .4323 FSP -262 SG1 3736.2 SG2 461.8 THA 171.41 EL1 1675.6 EL2 288.8 ALF 1.47

LAUNCH DATE MAR 7 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 399.341

RL 148.46 LAL .00 LOL 166.25 VL 27.497 GAL -7.12 AZL 76.05 HCA 193.83 SMA 128.63 ECC .19695 INC13.9517 V1 30.012
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.553 GAP 7.07 AZP 103.56 TAL 211.90 TAP 45.73 RCA 103.29 APO 153.96 V2 34.865
 RC 142.207 GL 51.53 GP -61.77 ZAL 117.32 ZAP 117.26 ETS 290.08 ZAE 106.34 ETE 210.88 ZAC 111.35 ETC 193.51 CLP-165.49

PLANETOCENTRIC CONIC

C3 70.606 VHL 8.403 DLA 56.84 RAL 356.09 RAD 6569.4 VEL 13.855 PTH 2.53 VHP 10.478 DPA -51.13 RAP 49.54 ECC 2.1620
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 38.41 13 28 41 4663.34 -19.79 225.76 252.51 35.54 14 46 24 4063.3 -26.22 221.00
 141.59 22 42 8 3033.58 -19.78 93.81 252.48 35.54 23 32 41 2433.6 -26.21 89.05
 38.41 13 28 41 4663.34 -19.79 225.76 252.51 35.54 14 46 24 4063.3 -26.22 221.00
 141.59 22 42 8 3033.58 -19.78 93.81 252.48 35.54 23 32 41 2433.6 -26.21 89.05
 38.41 13 28 41 4663.34 -19.79 225.76 252.51 35.54 14 46 24 4063.3 -26.22 221.00
 141.59 22 42 8 3033.58 -19.78 93.81 252.48 35.54 23 32 41 2433.6 -26.21 89.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.9038 TRA-2.6944 TC3 -.8019 BAU .7599 SGT 3845.0 SGR 436.0 SG3 95.6 ST 1643.9 SR 380.3 SS 553.8
 RDE .5517 RRA .1486 RC3 -.0710 FAU .02737 RRT .0162 RRF .2883 RTF .9554 CRT .6919 CRS -.8622 CST -.9622
 FDE .8314 FRA -.6131 FC3 -.3355 BSP 12099 SGB 3869.7 R23 .2727 R13 .9554 LSA 1750.2 MSA 300.4 SSA 3.3
 BDE 1.9821 BRA 2.6985 BC3 .8050 FSP -314 SG1 3845.0 SG2 435.9 THA .11 EL1 1665.4 EL2 271.1 ALF 9.34

LAUNCH DATE MAR 7 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 405.100

RL 148.46 LAL .00 LOL 166.25 VL 27.431 GAL -6.80 AZL 78.75 HCA 196.92 SMA 128.18 ECC .19678 INC11.2488 V1 30.012
 RP 108.66 LAP -3.26 LOP 2.86 VP 37.514 GAP 7.25 AZP 100.77 TAL 210.20 TAP 47.12 RCA 102.95 APO 153.40 V2 34.875
 RC 144.478 GL 47.02 GP -55.71 ZAL 120.59 ZAP 122.48 ETS 294.66 ZAE 111.11 ETE 212.81 ZAC 115.74 ETC 196.51 CLP-162.38

PLANETOCENTRIC CONIC

C3 52.742 VHL 7.262 DLA 52.98 RAL .21 RAD 6568.9 VEL 13.195 PTH 2.41 VHP 9.161 DPA -44.35 RAP 47.89 ECC 1.8680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.16 13 58 31 4564.20 -22.53 218.18 251.99 40.68 15 14 35 3964.2 -28.48 212.68
 136.84 22 45 10 2991.25 -22.51 92.72 251.98 40.68 23 35 1 2391.2 -28.47 87.21
 43.16 13 58 31 4564.20 -22.53 218.18 251.99 40.68 15 14 35 3964.2 -28.48 212.68
 136.84 22 45 10 2991.25 -22.51 92.72 251.98 40.68 23 35 1 2391.2 -28.47 87.21
 43.16 13 58 31 4564.20 -22.53 218.18 251.99 40.68 15 14 35 3964.2 -28.48 212.68
 136.84 22 45 10 2991.25 -22.51 92.72 251.98 40.68 23 35 1 2391.2 -28.47 87.21

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.6245 TRA-2.5156 TC3 -1.1928 BAU .8468 SGT 3937.9 SGR 469.6 SG3 110.6 ST 1619.6 SR 422.3 SS 544.1
 RDE .5352 RRA -.0077 RC3 -.1412 FAU .03320 RRT .4668 RRF .7115 RTF .9403 CRT .7873 CRS -.9391 CST -.9512
 FDE .8200 FRA -.5882 FC3 -.5449 BSP 12409 SGB 3965.8 R23 .3027 R13 .9421 LSA 1735.5 MSA 292.7 SSA 4.2
 BDE 1.7104 BRA 2.5156 BC3 1.2009 FSP -365 SG1 3944.1 SG2 414.6 THA 3.22 EL1 1654.2 EL2 254.9 ALF 11.89

LAUNCH DATE MAR 7 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 410.876

RL 148.46 LAL .00 LOL 166.25 VL 27.365 GAL -6.48 AZL 80.64 HCA 200.05 SMA 127.73 ECC .19680 INC 9.3635 V1 30.012
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.476 GAP 7.43 AZP 98.81 TAL 208.49 TAP 48.54 RCA 102.59 APO 152.87 V2 34.885
 RC 146.734 GL 42.94 GP -50.30 ZAL 122.97 ZAP 127.20 ETS 297.37 ZAE 114.92 ETE 212.63 ZAC 119.55 ETC 197.43 CLP-161.19

PLANETOCENTRIC CONIC

C3 42.174 VHL 6.494 DLA 49.71 RAL 4.15 RAD 6568.6 VEL 12.788 PTH 2.33 VHP 8.341 DPA -38.38 RAP 47.01 ECC 1.6941
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.27 14 27 2 4478.78 -24.19 211.18 251.78 45.14 15 41 40 3878.8 -29.69 205.08
 132.73 22 48 6 2964.69 -24.17 91.89 251.77 45.14 23 37 31 2364.7 -29.67 85.78
 47.27 14 27 2 4478.78 -24.19 211.18 251.78 45.14 15 41 40 3878.8 -29.69 205.08
 132.73 22 48 6 2964.69 -24.17 91.89 251.77 45.14 23 37 31 2364.7 -29.67 85.78
 47.27 14 27 2 4478.78 -24.19 211.18 251.78 45.14 15 41 40 3878.8 -29.69 205.08
 132.73 22 48 6 2964.69 -24.17 91.89 251.77 45.14 23 37 31 2364.7 -29.67 85.78

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.4413 TRA-2.3544 TC3 -1.5915 BAU .9040 SGT 4025.9 SGR 500.6 SG3 123.8 ST 1596.7 SR 430.2 SS 532.1
 RDE .4872 RRA -.0369 RC3 -.1938 FAU .03767 RRT .6096 RRF .8260 RTF .9277 CRT .8177 CRS -.9633 CST -.9421
 FDE .7973 FRA -.5432 FC3 -.7732 BSP 12679 SGB 4057.0 R23 .3216 R13 .9302 LSA 1713.5 MSA 286.7 SSA 5.4
 BDE 1.5214 BRA 2.3547 BC3 1.6033 FSP -406 SG1 4037.6 SG2 395.7 THA 4.38 EL1 1635.8 EL2 241.7 ALF 12.71

LAUNCH DATE MAR 7 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 416.657

RL 148.46 LAL .00 LOL 166.25 VL 27.300 GAL -6.15 AZL 82.03 HCA 203.18 SMA 127.29 ECC .19697 INC 7.9688 V1 30.012
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.439 GAP 7.62 AZP 97.33 TAL 206.78 TAP 49.96 RCA 102.22 APO 152.37 V2 34.897
 RC 148.977 GL 39.30 GP -45.57 ZAL 124.55 ZAP 131.41 ETS 299.26 ZAE 117.97 ETE 211.56 ZAC 122.96 ETC 197.46 CLP-160.90

PLANETOCENTRIC CONIC

C3 35.300 VHL 5.941 DLA 46.96 RAL 7.88 RAD 6568.4 VEL 12.517 PTH 2.27 VHP 7.813 DPA -33.11 RAP 46.71 ECC 1.5810
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.83 14 53 59 4404.24 -25.14 204.85 251.89 48.93 16 7 23 3804.2 -30.23 198.29
 129.17 22 50 52 2949.36 -25.13 91.36 251.88 48.93 23 40 2 2349.4 -30.22 84.81
 50.83 14 53 59 4404.24 -25.14 204.85 251.89 48.93 16 7 23 3804.2 -30.23 198.29
 129.17 22 50 52 2949.36 -25.13 91.36 251.88 48.93 23 40 2 2349.4 -30.22 84.81
 50.83 14 53 59 4404.24 -25.14 204.85 251.89 48.93 16 7 23 3804.2 -30.23 198.29
 129.17 22 50 52 2949.36 -25.13 91.36 251.88 48.93 23 40 2 2349.4 -30.22 84.81

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3039 TRA-2.2125 TC3 -1.9975 BAU .9490 SGT 4121.6 SGR 509.5 SG3 135.0 ST 1570.3 SR 423.8 SS 514.7
 RDE .4388 RRA -.0498 RC3 -.2314 FAU .04106 RRT .6689 RRF .8634 RTF .9181 CRT .8303 CRS -.9745 CST -.9339
 FDE .7601 FRA -.4874 FC3 -1.0069 BSP 13058 SGB 4153.0 R23 .3284 R13 .9206 LSA 1682.6 MSA 280.9 SSA 6.6
 BDE 1.3758 BRA 2.2131 BC3 2.0109 FSP -447 SG1 4135.8 SG2 377.5 THA 4.77 EL1 1610.0 EL2 230.4 ALF 12.90

LAUNCH DATE MAR 7 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 422.438

RL 148.46 LAL .00 LOL 166.25 VL 27.235 GAL -5.81 AZL 83.11 MCA 206.34 SMA 126.86 ECC .19731 INC 6.8904 V1 30.012
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.402 GAP 7.82 AZP 96.18 TAL 205.06 TAP 51.39 RCA 101.83 APO 151.90 V2 34.908
 RC 151.204 GL 36.06 GP -41.46 ZAL 125.46 ZAP 135.15 ETS 300.70 ZAE 120.40 ETE 210.10 ZAC 126.07 ETC 197.08 CLP-161.07

PLANETOCENTRIC CONIC

C3 30.500 VHL 5.523 CLA 44.65 RAL 11.43 RAD 6568.2 VEL 12.324 PTH 2.22 VHP 7.469 DPA -28.46 RAP 46.84 ECC 1.5020
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 53.92 15 19 33 4338.21 -25.67 199.16 252.33 52.13 16 31 51 3738.2 -30.39 192.26
 126.08 22 53 42 2941.75 -25.66 91.13 252.32 52.12 23 42 44 2341.7 -30.38 84.23
 53.92 15 19 33 4338.21 -25.67 199.16 252.33 52.13 16 31 51 3738.2 -30.39 192.26
 126.08 22 53 42 2941.75 -25.66 91.13 252.32 52.12 23 42 44 2341.7 -30.38 84.23
 53.92 15 19 33 4338.21 -25.67 199.16 252.33 52.13 16 31 51 3738.2 -30.39 192.26
 126.08 22 53 42 2941.75 -25.66 91.13 252.32 52.12 23 42 44 2341.7 -30.38 84.23

DIFFERENTIAL CORRECTIONS

TDE 1.1755 TRA-2.1024 TC3-2.4343 BAU .9985
 ROE .3919 RRA -.0576 RC3 -.2656 FAU .04423
 FDE .6980 FRA -.4411 FC3-1.2554 BSP 13997
 BDE 1.2391 BRA 2.1032 BC3 2.4488 FSP -517

MID-COURSE EXECUTION ACCURACY

SGT 4256.2 SGR 508.4 SG3 146.1
 RRT .7126 RRF .8783 RTF .9145
 SGB 4286.5 R23 .3164 R13 .9168
 SG1 4271.7 SG2 355.3 THA 4.30

ORBIT DETERMINATION ACCURACY

ST 1529.6 SR 407.5 SS 484.3
 CRT .8339 CRS -.9798 CST -.9267
 LSA 1632.8 MSA 272.0 SSA 8.2
 EL1 1567.6 EL2 219.5 ALF 12.78

LAUNCH DATE MAR 7 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 428.224

RL 148.46 LAL .00 LOL 166.25 VL 27.171 GAL -5.46 AZL 83.97 MCA 209.49 SMA 126.44 ECC .19778 INC 6.0276 V1 30.012
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.367 GAP 8.01 AZP 95.25 TAL 203.32 TAP 52.81 RCA 101.43 APO 151.45 V2 34.920
 RC 153.416 GL 33.17 GP -37.89 ZAL 125.77 ZAP 138.45 ETS 301.86 ZAE 122.35 ETE 208.51 ZAC 128.97 ETC 196.52 CLP-161.50

PLANETOCENTRIC CONIC

C3 26.951 VHL 5.191 CLA 42.70 RAL 14.89 RAD 6568.1 VEL 12.179 PTH 2.19 VHP 7.244 DPA -24.33 RAP 47.34 ECC 1.4435
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.59 15 43 58 4279.02 -25.94 194.05 253.11 54.80 16 55 17 3679.0 -30.35 186.90
 123.41 22 56 53 2939.14 -25.92 91.12 253.10 54.79 23 45 52 2339.1 -30.34 83.96
 56.59 15 43 58 4279.02 -25.94 194.05 253.11 54.80 16 55 17 3679.0 -30.35 186.90
 123.41 22 56 53 2939.14 -25.92 91.12 253.10 54.79 23 45 52 2339.1 -30.34 83.96
 56.59 15 43 58 4279.02 -25.94 194.05 253.11 54.80 16 55 17 3679.0 -30.35 186.90
 123.41 22 56 53 2939.14 -25.92 91.12 253.10 54.79 23 45 52 2339.1 -30.34 83.96

DIFFERENTIAL CORRECTIONS

TDE 1.1365 TRA-1.9299 TC3-2.7826 BAU 1.0071
 ROE .3716 RRA -.0409 RC3 -.2636 FAU .04410
 FDE .6820 FRA -.3371 FC3-1.4165 BSP 13314
 BDE 1.1957 BRA 1.9303 BC3 2.7951 FSP -474

MID-COURSE EXECUTION ACCURACY

SGT 4280.4 SGR 496.9 SG3 149.3
 RRT .6974 RRF .8646 RTF .9005
 SGB 4309.1 R23 .3240 R13 .9027
 SG1 4294.5 SG2 354.9 THA 4.66

ORBIT DETERMINATION ACCURACY

ST 1528.7 SR 410.7 SS 481.4
 CRT .8462 CRS -.9875 CST -.9186
 LSA 1631.9 MSA 272.2 SSA 9.5
 EL1 1568.5 EL2 213.3 ALF 13.05

LAUNCH DATE MAR 7 1969

FLIGHT TIME 146.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 434.001

RL 148.46 LAL .00 LOL 166.25 VL 27.108 GAL -5.11 AZL 84.68 MCA 212.66 SMA 126.03 ECC .19841 INC 5.3178 V1 30.012
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.332 GAP 8.21 AZP 94.48 TAL 201.57 TAP 54.23 RCA 101.02 APO 151.03 V2 34.932
 RC 155.612 GL 30.56 GP -34.80 ZAL 125.56 ZAP 141.38 ETS 302.81 ZAE 123.92 ETE 206.92 ZAC 131.71 ETC 195.89 CLP-162.08

PLANETOCENTRIC CONIC

C3 24.221 VHL 4.921 CLA 41.06 RAL 18.31 RAD 6568.0 VEL 12.066 PTH 2.16 VHP 7.103 DPA -20.66 RAP 48.10 ECC 1.3986
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.92 16 7 29 4225.46 -26.05 189.47 254.19 57.06 17 17 55 3625.5 -30.19 182.12
 121.08 23 0 35 2939.95 -26.04 91.27 254.18 57.05 23 49 35 2340.0 -30.18 83.93
 58.92 16 7 29 4225.46 -26.05 189.47 254.19 57.06 17 17 55 3625.5 -30.19 182.12
 121.08 23 0 35 2939.95 -26.04 91.27 254.18 57.05 23 49 35 2340.0 -30.18 83.93
 58.92 16 7 29 4225.46 -26.05 189.47 254.19 57.06 17 17 55 3625.5 -30.19 182.12
 121.08 23 0 35 2939.95 -26.04 91.27 254.18 57.05 23 49 35 2340.0 -30.18 83.93

DIFFERENTIAL CORRECTIONS

TDE 1.0718 TRA-1.8005 TC3-3.1871 BAU 1.0358
 ROE .3470 RRA -.0359 RC3 -.2723 FAU .04477
 FDE .6334 FRA -.2644 FC3-1.6002 BSP 13670
 BDE 1.1266 BRA 1.8008 BC3 3.1987 FSP -494

MID-COURSE EXECUTION ACCURACY

SGT 4373.4 SGR 487.9 SG3 154.3
 RRT .7024 RRF .8520 RTF .8955
 SGB 4400.5 R23 .3078 R13 .8974
 SG1 4386.9 SG2 346.2 THA 4.51

ORBIT DETERMINATION ACCURACY

ST 1503.8 SR 404.4 SS 459.7
 CRT .8529 CRS -.9915 CST -.9115
 LSA 1601.7 MSA 266.2 SSA 11.1
 EL1 1543.6 EL2 205.7 ALF 13.16

LAUNCH DATE MAR 7 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

DISTANCE 439.774

RL 148.46 LAL .00 LOL 166.25 VL 27.045 GAL -4.75 AZL 85.28 MCA 215.83 SMA 125.62 ECC .19920 INC 4.7204 V1 30.012
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.298 GAP 8.41 AZP 93.83 TAL 199.81 TAP 55.64 RCA 100.60 APO 150.65 V2 34.945
 RC 157.792 GL 28.19 GP -32.11 ZAL 124.90 ZAP 143.99 ETS 303.57 ZAE 125.18 ETE 205.39 ZAC 134.34 ETC 195.24 CLP-162.74

PLANETOCENTRIC CONIC

C3 22.049 VHL 4.696 CLA 39.67 RAL 21.72 RAD 6567.9 VEL 11.976 PTH 2.13 VHP 7.020 DPA -17.37 RAP 49.09 ECC 1.3629
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.97 16 30 20 4176.69 -26.07 185.33 255.58 58.97 17 39 56 3576.7 -29.98 177.83
 119.03 23 4 58 2942.93 -26.06 91.54 255.57 58.97 23 54 1 2342.9 -29.97 84.05
 60.97 16 30 20 4176.69 -26.07 185.33 255.58 58.97 17 39 56 3576.7 -29.98 177.83
 119.03 23 4 58 2942.93 -26.06 91.54 255.57 58.97 23 54 1 2342.9 -29.97 84.05
 60.97 16 30 20 4176.69 -26.07 185.33 255.58 58.97 17 39 56 3576.7 -29.98 177.83
 119.03 23 4 58 2942.93 -26.06 91.54 255.57 58.97 23 54 1 2342.9 -29.97 84.05

DIFFERENTIAL CORRECTIONS

TDE 1.0199 TRA-1.6695 TC3-3.5930 BAU 1.0623
 ROE .3281 RRA -.0305 RC3 -.2772 FAU .04488
 FDE .5852 FRA -.1918 FC3-1.7622 BSP 14025
 BDE 1.0714 BRA 1.6698 BC3 3.6037 FSP -508

MID-COURSE EXECUTION ACCURACY

SGT 4465.2 SGR 480.0 SG3 157.9
 RRT .7020 RRF .8337 RTF .8916
 SGB 4491.0 R23 .2866 R13 .8933
 SG1 4478.0 SG2 -340.9 THA 4.34

ORBIT DETERMINATION ACCURACY

ST 1479.6 SR 400.7 SS 437.7
 CRT .8611 CRS -.9947 CST -.9048
 LSA 1572.9 MSA 259.7 SSA 12.9
 EL1 1520.1 EL2 198.3 ALF 13.36

LAUNCH DATE MAR 7 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 4 1969

MELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 26.983 GAL -4.38 AZL 85.79 MCA 219.01 SMA 125.22 ECC .20015 INC 4.2079 V1 30.012
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.265 GAP 8.61 AZP 93.27 TAL 198.04 TAP 57.05 RCA 100.16 APO 150.29 V2 34.957
 RC 159.953 GL 26.00 GP -29.76 ZAL 123.83 ZAP 146.32 ETS 304.16 ZAE 126.22 ETE 203.95 ZAC 136.89 ETC 194.62 CLP-163.46

PLANETOCENTRIC CONIC
 C3 20.279 VHL 4.503 DLA 38.48 RAL 25.18 RAD 6567.8 VEL 11.902 PTH 2.11 VHP 6.981 DPA -14.42 RAP 50.27 ECC 1.3337
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.78 16 52 45 4131.88 -26.05 181.57 257.25 60.61 18 1 37 3531.9 -29.75 173.96
 117.22 23 10 8 2947.52 -26.03 91.91 257.24 60.60 23 59 15 2347.5 -29.74 84.30
 62.78 16 52 45 4131.88 -26.05 181.57 257.25 60.61 18 1 37 3531.9 -29.75 173.96
 117.22 23 10 8 2947.52 -26.03 91.91 257.24 60.60 23 59 15 2347.5 -29.74 84.30
 62.78 16 52 45 4131.88 -26.05 181.57 257.25 60.61 18 1 37 3531.9 -29.75 173.96
 117.22 23 10 8 2947.52 -26.03 91.91 257.24 60.60 23 59 15 2347.5 -29.74 84.30

DIFFERENTIAL CORRECTIONS
 TDE .9802 TRA-1.5326 TC3-3.9955 BAU 1.0859 SGT 4550.8 SGR 474.0 SG3 160.1 ST 1457.9 SR 400.2 SS 417.3
 RDE .3144 RRA -.0244 RC3 -.2790 FAU .04446 RRT .6963 RRF .8110 RTF .8882 CRT .8716 CRS -.9970 CST -.8984
 FDE .5404 FRA -.1184 FC3-1.8982 BSP 14320 SGB 4575.4 R23 .2635 R13 .8897 LSA 1547.9 MSA 252.6 SSA 14.9
 BDE 1.0294 BRA 1.5328 BC3 4.0053 FSP -515 SG1 4562.8 SG2 339.4 THA 4.17 EL1 1499.8 EL2 190.7 ALF 13.68

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 6 1969

MELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 26.921 GAL -4.00 AZL 86.24 MCA 222.19 SMA 124.83 ECC .20126 INC 3.7608 V1 30.012
 RP 108.37 LAP -2.52 LOP 28.38 VP 37.232 GAP 8.82 AZP 92.79 TAL 196.27 TAP 58.45 RCA 99.71 APO 149.96 V2 34.970
 RC 162.097 GL 23.96 GP -27.71 ZAL 122.39 ZAP 148.42 ETS 304.59 ZAE 127.07 ETE 202.63 ZAC 139.38 ETC 194.02 CLP-164.22

PLANETOCENTRIC CONIC
 C3 18.814 VHL 4.337 DLA 37.45 RAL 28.71 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 6.974 DPA -11.76 RAP 51.60 ECC 1.3096
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.40 17 14 57 4090.55 -25.98 178.13 259.21 62.03 18 23 8 3490.5 -29.50 170.43
 115.60 23 16 6 2953.30 -25.97 92.34 259.20 62.02 24 5 19 2353.3 -29.49 84.64
 64.40 17 14 57 4090.55 -25.98 178.13 259.21 62.03 18 23 8 3490.5 -29.50 170.43
 115.60 23 16 6 2953.30 -25.97 92.34 259.20 62.02 24 5 19 2353.3 -29.49 84.64
 64.40 17 14 57 4090.55 -25.98 178.13 259.21 62.03 18 23 8 3490.5 -29.50 170.43
 115.60 23 16 6 2953.30 -25.97 92.34 259.20 62.02 24 5 19 2353.3 -29.49 84.64

DIFFERENTIAL CORRECTIONS
 TDE .9482 TRA-1.3906 TC3-4.3960 BAU 1.1079 SGT 4633.1 SGR 470.3 SG3 161.2 ST 1436.5 SR 401.9 SS 397.5
 RDE .3041 RRA -.0183 RC3 -.2796 FAU .04370 RRT .6879 RRF .7859 RTF .8856 CRT .8840 CRS -.9980 CST -.8920
 FDE .4976 FRA -.0467 FC3-2.0108 BSP 14597 SGB 4656.9 R23 .2389 R13 .8869 LSA 1524.2 MSA 244.6 SSA 17.0
 BDE .9957 BRA 1.3907 BC3 4.4049 FSP -519 SG1 4644.4 SG2 340.5 THA 4.02 EL1 1480.5 EL2 182.3 ALF 14.11

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 8 1969

MELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 26.860 GAL -3.61 AZL 86.63 MCA 225.37 SMA 124.45 ECC .20255 INC 3.3651 V1 30.012
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.201 GAP 9.03 AZP 92.37 TAL 194.48 TAP 59.85 RCA 99.24 APO 149.66 V2 34.983
 RC 164.221 GL 22.04 GP -25.91 ZAL 120.62 ZAP 150.31 ETS 304.86 ZAE 127.77 ETE 201.42 ZAC 141.84 ETC 193.47 CLP-164.99

PLANETOCENTRIC CONIC
 C3 17.588 VHL 4.194 DLA 36.54 RAL 32.34 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 6.993 DPA -9.34 RAP 53.07 ECC 1.2895
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.88 17 37 10 4052.08 -25.89 174.96 261.45 63.26 18 44 43 3452.1 -29.25 167.19
 114.12 23 22 52 2960.30 -25.87 92.86 261.44 63.25 24 12 12 2360.3 -29.24 85.08
 65.88 17 37 10 4052.08 -25.89 174.96 261.45 63.26 18 44 43 3452.1 -29.25 167.19
 114.12 23 22 52 2960.30 -25.87 92.86 261.44 63.25 24 12 12 2360.3 -29.24 85.08
 65.88 17 37 10 4052.08 -25.89 174.96 261.45 63.26 18 44 43 3452.1 -29.25 167.19
 114.12 23 22 52 2960.30 -25.87 92.86 261.44 63.25 24 12 12 2360.3 -29.24 85.08

DIFFERENTIAL CORRECTIONS
 TDE .9234 TRA-1.2406 TC3-4.7874 BAU 1.1276 SGT 4708.0 SGR 468.7 SG3 161.3 ST 1416.5 SR 405.7 SS 379.5
 RDE .2969 RRA -.0116 RC3 -.2789 FAU .04260 RRT .6765 RRF .7593 RTF .8832 CRT .8984 CRS -.9972 CST -.8856
 FDE .4581 FRA .0243 FC3-2.0968 BSP 14814 SGB 4731.3 R23 .2152 R13 .8843 LSA 1503.1 MSA 235.5 SSA 19.3
 BDE .9700 BRA 1.2406 BC3 4.7955 FSP -516 SG1 4718.7 SG2 344.3 THA 3.87 EL1 1463.3 EL2 172.5 ALF 14.64

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 10 1969

MELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 26.800 GAL -3.20 AZL 86.99 MCA 228.56 SMA 124.08 ECC .20402 INC 3.0103 V1 30.012
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.170 GAP 9.25 AZP 91.99 TAL 192.69 TAP 61.25 RCA 98.76 APO 149.39 V2 34.996
 RC 166.326 GL 20.20 GP -24.33 ZAL 118.54 ZAP 152.03 ETS 304.98 ZAE 128.37 ETE 200.32 ZAC 144.27 ETC 192.94 CLP-165.76

PLANETOCENTRIC CONIC
 C3 16.562 VHL 4.070 DLA 35.72 RAL 36.10 RAD 6567.7 VEL 11.745 PTH 2.07 VHP 7.033 DPA -7.14 RAP 54.66 ECC 1.2726
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.26 17 59 40 4015.84 -25.76 171.99 263.96 64.35 19 6 36 3415.8 -28.99 164.16
 112.74 23 30 19 2968.81 -25.75 93.47 263.95 64.34 24 19 48 2368.8 -28.98 85.64
 67.26 17 59 40 4015.84 -25.76 171.99 263.96 64.35 19 6 36 3415.8 -28.99 164.16
 112.74 23 30 19 2968.81 -25.75 93.47 263.95 64.34 24 19 48 2368.8 -28.98 85.64
 67.26 17 59 40 4015.84 -25.76 171.99 263.96 64.35 19 6 36 3415.8 -28.99 164.16
 112.74 23 30 19 2968.81 -25.75 93.47 263.95 64.34 24 19 48 2368.8 -28.98 85.64

DIFFERENTIAL CORRECTIONS
 TDE .8982 TRA-1.0871 TC3-5.1760 BAU 1.1477 SGT 4785.5 SGR 468.9 SG3 161.1 ST 1391.1 SR 410.0 SS 360.0
 RDE .2911 RRA -.0052 RC3 -.2794 FAU .04141 RRT .6656 RRF .7327 RTF .8823 CRT .9131 CRS -.9936 CST -.8784
 FDE .4178 FRA .0904 FC3-2.1647 BSP 15084 SGB 4808.4 R23 .1907 R13 .8833 LSA 1477.0 MSA 225.1 SSA 22.0
 BDE .9443 BRA 1.0871 BC3 5.1836 FSP -515 SG1 4795.8 SG2 349.1 THA 3.75 EL1 1441.2 EL2 161.3 ALF 15.26

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 7 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 468.524

RL 148.46 LAL .00 LOL 166.25 VL 26.741 GAL -2.79 AZL 87.31 HCA 231.75 SMA 123.71 ECC .20568 INC 2.6886 V1 30.012
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.140 GAP 9.48 AZP 91.67 TAL 190.89 TAP 62.64 RCA 98.26 APO 149.15 V2 35.010
 RC 168.410 GL 18.43 GP -22.92 ZAL 116.16 ZAP 153.61 ETS 304.94 ZAE 128.87 ETE 199.33 ZAC 146.69 ETC 192.45 CLP-166.54

PLANETOCENTRIC CONIC

C3 15.706 VHL 3.963 CLA 34.96 RAL 39.98 RAD 6567.6 VEL 11.709 PTH 2.06 VHP 7.090 DPA -5.13 RAP 56.36 ECC 1.2585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.59 18 22 42 3981.18 -25.59 169.15 266.75 65.33 19 29 3 3381.2 -28.69 161.28
 111.41 23 38 19 2979.31 -25.58 94.21 266.75 65.32 24 27 58 2379.3 -28.69 86.34
 68.59 18 22 42 3981.18 -25.59 169.15 266.75 65.33 19 29 3 3381.2 -28.69 161.28
 111.41 23 38 19 2979.31 -25.58 94.21 266.75 65.32 24 27 58 2379.3 -28.69 86.34
 68.59 18 22 42 3981.18 -25.59 169.15 266.75 65.33 19 29 3 3381.2 -28.69 161.28
 111.41 23 38 19 2979.31 -25.58 94.21 266.75 65.32 24 27 58 2379.3 -28.69 86.34

DIFFERENTIAL CORRECTIONS

TDE .8728 TRA -.9266 TC3-5.5518 BAU 1.1672
 RDE .2868 RRA .0018 RC3 -.2803 FAU .04010
 FDE .3777 FRA .1538 FC3-2.2102 BSP 15364
 BDE .9187 BRA .9266 BC3 5.5588 FSP -514

MID-COURSE EXECUTION ACCURACY

SGT 4860.8 SGR 470.4 SG3 160.3
 RRT .6542 RRF .7066 RTF .8822
 SGB 4883.5 R23 .1671 R13 .8830
 SG1 4870.6 SG2 355.0 THA 3.64

ORBIT DETERMINATION ACCURACY

ST 1360.1 SR 414.6 SS 339.8
 CRT .9283 CRS -.9863 CST -.8697
 LSA 1446.1 MSA 213.3 SSA 25.1
 EL1 1414.2 EL2 148.3 ALF 15.98

LAUNCH DATE MAR 7 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 474.244

RL 148.46 LAL .00 LOL 166.25 VL 26.682 GAL -2.36 AZL 87.61 HCA 234.95 SMA 123.35 ECC .20754 INC 2.3937 V1 30.012
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.110 GAP 9.71 AZP 91.38 TAL 189.09 TAP 64.03 RCA 97.75 APO 148.95 V2 35.023
 RC 170.474 GL 16.71 GP -21.67 ZAL 113.52 ZAP 155.05 ETS 304.75 ZAE 129.31 ETE 198.43 ZAC 149.10 ETC 191.98 CLP-167.32

PLANETOCENTRIC CONIC

C3 15.004 VHL 3.873 CLA 34.23 RAL 44.01 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 7.163 DPA -3.28 RAP 58.14 ECC 1.2469
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.92 18 46 35 3947.21 -25.37 166.38 269.82 66.22 19 52 22 3347.2 -28.36 158.47
 110.08 23 46 35 2992.69 -25.36 95.16 269.82 66.21 24 36 28 2392.7 -28.35 87.25
 69.92 18 46 35 3947.21 -25.37 166.38 269.82 66.22 19 52 22 3347.2 -28.36 158.47
 110.08 23 46 35 2992.69 -25.36 95.16 269.82 66.21 24 36 28 2392.7 -28.35 87.25
 69.92 18 46 35 3947.21 -25.37 166.38 269.82 66.22 19 52 22 3347.2 -28.36 158.47
 110.08 23 46 35 2992.69 -25.36 95.16 269.82 66.21 24 36 28 2392.7 -28.35 87.25

DIFFERENTIAL CORRECTIONS

TDE .8465 TRA -.7579 TC3-5.9038 BAU 1.1856
 RDE .2836 RRA .0095 BC3 -.2813 FAU .03868
 FDE .3389 FRA .2150 FC3-2.2322 BSP 15626
 BDE .8927 BRA .7580 BC3 5.9105 FSP -512

MID-COURSE EXECUTION ACCURACY

SGT 4932.0 SGR 473.1 SG3 159.1
 RRT .6425 RRF .6816 RTF .8827
 SGB 4954.6 R23 .1454 R13 .8834
 SG1 4941.4 SG2 361.8 THA 3.55

ORBIT DETERMINATION ACCURACY

ST 1323.7 SR 419.7 SS 319.9
 CRT .9437 CRS -.9737 CST -.8590
 LSA 1410.5 MSA 200.6 SSA 28.9
 EL1 1382.2 EL2 133.0 ALF 16.82

LAUNCH DATE MAR 7 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 479.952

RL 148.46 LAL .00 LOL 166.25 VL 26.624 GAL -1.92 AZL 87.88 HCA 238.14 SMA 123.00 ECC .20961 INC 2.1209 V1 30.012
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.081 GAP 9.94 AZP 91.12 TAL 187.28 TAP 65.42 RCA 97.22 APO 148.78 V2 35.036
 RC 172.518 GL 15.02 GP -20.56 ZAL 110.63 ZAP 156.37 ETS 304.39 ZAE 129.69 ETE 197.62 ZAC 151.50 ETC 191.52 CLP-168.10

PLANETOCENTRIC CONIC

C3 14.443 VHL 3.800 CLA 33.50 RAL 48.18 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 7.249 DPA -1.58 RAP 60.01 ECC 1.2377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.30 19 11 40 3912.89 -25.09 163.58 273.17 67.04 20 16 53 3312.9 -27.98 155.65
 108.70 23 54 46 3010.04 -25.08 96.37 273.16 67.03 24 44 56 2410.0 -27.97 88.45
 71.30 19 11 40 3912.89 -25.09 163.58 273.17 67.04 20 16 53 3312.9 -27.98 155.65
 108.70 23 54 46 3010.04 -25.08 96.37 273.16 67.03 24 44 56 2410.0 -27.97 88.45
 110.00 0 58 24 2827.22 -29.42 84.00 274.99 71.76 1 45 32 2227.2 -31.63 75.49
 110.00 23 11 8 3143.71 -20.90 104.60 271.01 62.32 24 3 32 2543.7 -24.44 97.24

DIFFERENTIAL CORRECTIONS

TDE .8198 TRA -.5772 TC3-6.2131 BAU 1.2009
 RDE .2819 RRA .0185 RC3 -.2805 FAU .03706
 FDE .3025 FRA .2767 FC3-2.2214 BSP 15774
 BDE .8669 BRA .5775 BC3 6.2195 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 4991.8 SGR 476.6 SG3 157.2
 RRT .6292 RRF .6580 RTF .8827
 SGB 5014.5 R23 .1280 R13 .8833
 SG1 5000.8 SG2 369.8 THA 3.46

ORBIT DETERMINATION ACCURACY

ST 1282.8 SR 425.1 SS 302.3
 CRT .9590 CRS -.9532 CST -.8458
 LSA 1371.7 MSA 187.4 SSA 33.3
 EL1 1346.5 EL2 114.8 ALF 17.77

LAUNCH DATE MAR 7 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 485.647

RL 148.46 LAL .00 LOL 166.25 VL 26.567 GAL -1.46 AZL 88.13 HCA 241.34 SMA 122.65 ECC .21191 INC 1.8661 V1 30.012
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.053 GAP 10.19 AZP 90.90 TAL 185.46 TAP 66.81 RCA 96.66 APO 148.64 V2 35.050
 RC 174.540 GL 13.36 GP -19.56 ZAL 107.51 ZAP 157.60 ETS 303.88 ZAE 130.03 ETE 196.89 ZAC 153.90 ETC 191.08 CLP-168.87

PLANETOCENTRIC CONIC

C3 14.018 VHL 3.744 CLA 32.76 RAL 52.48 RAD 6567.6 VEL 11.636 PTH 2.04 VHP 7.347 DPA -.01 RAP 61.95 ECC 1.2307
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.81 19 38 20 3876.97 -24.74 160.64 276.77 67.81 20 42 57 3277.0 -27.52 152.70
 107.19 0 6 21 3032.79 -24.73 97.96 276.76 67.80 0 56 54 2432.8 -27.51 90.03
 72.81 19 38 20 3876.97 -24.74 160.64 276.77 67.81 20 42 57 3277.0 -27.52 152.70
 107.19 0 6 21 3032.79 -24.73 97.96 276.76 67.80 0 56 54 2432.8 -27.51 90.03
 110.00 1 38 27 2749.22 -30.96 78.45 279.15 74.72 2 24 16 2149.2 -32.74 69.68
 110.00 23 5 24 3208.54 -18.80 108.46 273.70 60.91 23 58 53 2608.5 -22.54 101.31

DIFFERENTIAL CORRECTIONS

TDE .7826 TRA -.3926 TC3-6.4926 BAU 1.2179
 RDE .2802 RRA .0277 RC3 -.2814 FAU .03557
 FDE .2627 FRA .3326 FC3-2.1965 BSP 16033
 BDE .8312 BRA .3935 BC3 6.4987 FSP -498

MID-COURSE EXECUTION ACCURACY

SGT 5057.8 SGR 480.4 SG3 155.4
 RRT .6182 RRF .6361 RTF .8847
 SGB 5080.6 R23 .1096 R13 .8852
 SG1 5066.6 SG2 376.9 THA 3.38

ORBIT DETERMINATION ACCURACY

ST 1225.3 SR 429.0 SS 281.8
 CRT .9723 CRS -.9211 CST -.8269
 LSA 1316.5 MSA 173.9 SSA 38.8
 EL1 1294.8 EL2 95.0 ALF 18.91

LAUNCH DATE MAR 7 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 491.325

RL 148.46 LAL .00 LOL 166.25 VL 26.511 GAL -1.00 AZL 88.37 HCA 244.55 SMA 122.31 ECC .21445 INC 1.6264 VI 30.012
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.025 GAP 10.45 AZP 90.70 TAL 183.65 TAP 68.20 RCA 96.08 APO 148.54 V2 35.063
 RC 176.542 GL 11.72 GP -18.67 ZAL 104.18 ZAP 158.74 ETS 303.20 ZAE 130.33 ETE 196.22 ZAC 156.30 ETC 190.63 CLP-169.64

PLANETOCENTRIC CONIC

C3 13.728 VHL 3.705 CLA 31.97 RAL 56.90 RAD 6567.5 VEL 11.624 PTH 2.04 VHP 7.457 DPA 1.43 RAP 63.96 ECC 1.2259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.50 20 7 8 3837.60 -24.29 157.44 280.61 68.54 21 11 5 3237.6 -26.98 149.50
 105.50 0 12 47 3062.98 -24.28 100.07 280.61 68.53 1 3 50 2463.0 -26.97 92.13
 74.50 20 7 8 3837.60 -24.29 157.44 280.61 68.54 21 11 5 3237.6 -26.98 149.50
 105.50 0 12 47 3062.98 -24.28 100.07 280.61 68.53 1 3 50 2463.0 -26.97 92.13
 110.00 2 14 8 2687.29 -31.98 73.91 283.30 77.22 2 58 55 2087.3 -33.40 64.97
 110.00 23 4 57 3261.28 -17.03 111.52 276.87 59.90 23 59 19 2661.3 -20.90 104.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7373 TRA -1.989 TC3-6.7176 BAU 1.2340 SGT 5119.7 SGR 483.9 SG3 153.2 ST 1155.0 SR 431.8 SS 261.7
 RDE .2789 RRA .0377 RC3 -.2812 FAU .03402 RRT .6071 RRF .6154 RTF .8872 CRT .9833 CRS -.8714 CST -.8013
 FDE .2222 FRA .3864 FC3-2.1456 BSP 16271 SGB 5142.5 R23 .0928 R13 .8876 LSA 1249.3 MSA 161.7 SSA 45.2
 BOE .7883 BRA .2025 BC3 6.7235 FSP -493 SG1 5128.1 SG2 383.9 THA 3.30 EL1 1230.9 EL2 73.8 ALF 20.26

LAUNCH DATE MAR 7 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 496.987

RL 148.46 LAL .00 LOL 166.25 VL 26.455 GAL -.51 AZL 88.60 HCA 247.75 SMA 121.98 ECC .21725 INC 1.3989 VI 30.012
 RP 108.04 LAP -1.28 LOP 54.00 VP 36.997 GAP 10.72 AZP 90.53 TAL 181.83 TAP 69.59 RCA 95.48 APO 148.48 V2 35.076
 RC 178.523 GL 10.10 GP -17.87 ZAL 100.67 ZAP 159.79 ETS 302.35 ZAE 130.61 ETE 195.63 ZAC 158.71 ETC 190.16 CLP-170.40

PLANETOCENTRIC CONIC

C3 13.573 VHL 3.684 CLA 31.13 RAL 61.41 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 7.578 DPA 2.77 RAP 66.03 ECC 1.2234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.49 20 38 55 3791.75 -23.74 153.73 284.69 69.25 21 42 7 3191.7 -26.35 145.80
 103.51 0 16 56 3103.89 -23.73 102.94 284.69 69.23 1 8 40 2503.9 -26.34 95.00
 76.49 20 38 55 3791.75 -23.74 153.73 284.69 69.25 21 42 7 3191.7 -26.35 145.80
 103.51 0 16 56 3103.89 -23.73 102.94 284.69 69.23 1 8 40 2503.9 -26.34 95.00
 110.00 2 48 3 2633.25 -32.72 69.87 287.54 79.51 3 31 57 2033.2 -33.82 60.81
 110.00 23 6 58 3310.39 -15.33 114.32 280.38 59.07 24 2 9 2710.4 -19.32 107.47

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6824 TRA .0057 TC3-6.8731 BAU 1.2482 SGT 5174.4 SGR 486.9 SG3 150.6 ST 1072.1 SR 433.3 SS 244.0
 RDE .2781 RRA .0489 RC3 -.2788 FAU .03240 RRT .5954 RRF .5958 RTF .8893 CRT .9901 CRS -.7955 CST -.7673
 FDE .1811 FRA .4398 FC3-2.0666 BSP 16504 SGB 5197.2 R23 .0787 R13 .8897 LSA 1170.5 MSA 154.6 SSA 51.7
 BOE .7369 BRA .0492 BC3 6.8787 FSP -489 SG1 5182.5 SG2 390.6 THA 3.23 EL1 1155.0 EL2 56.4 ALF 21.87

LAUNCH DATE MAR 7 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 502.626

RL 148.46 LAL .00 LOL 166.25 VL 26.400 GAL -.01 AZL 88.82 HCA 250.96 SMA 121.66 ECC .22032 INC 1.1814 VI 30.012
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.970 GAP 11.00 AZP 90.39 TAL 180.03 TAP 70.99 RCA 94.85 APO 148.46 V2 35.089
 RC 180.483 GL 8.50 GP -17.14 ZAL 97.03 ZAP 160.78 ETS 301.31 ZAE 130.86 ETE 195.08 ZAC 161.12 ETC 189.66 CLP-171.16

PLANETOCENTRIC CONIC

C3 13.561 VHL 3.682 CLA 30.22 RAL 65.95 RAD 6567.5 VEL 11.617 PTH 2.04 VHP 7.712 DPA 4.00 RAP 68.15 ECC 1.2232
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.98 21 15 9 3734.23 -23.08 149.15 288.95 69.93 22 17 23 3134.2 -25.60 141.24
 101.02 0 16 58 3161.00 -23.07 106.95 288.95 69.92 1 9 39 2561.0 -25.59 99.03
 78.98 21 15 9 3734.23 -23.08 149.15 288.95 69.93 22 17 23 3134.2 -25.60 141.24
 101.02 0 16 58 3161.00 -23.07 106.95 288.95 69.92 1 9 39 2561.0 -25.59 99.03
 110.00 3 21 5 2584.02 -33.27 66.13 291.87 81.65 4 4 9 1984.0 -34.06 56.98
 110.00 23 10 12 3359.21 -13.61 117.05 284.12 58.34 24 6 12 2759.2 -17.70 110.32

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4915 TRA .1717 TC3-7.2777 BAU 1.3208 SGT 5423.1 SGR 478.5 SG3 161.7 ST 787.0 SR 399.2 SS 175.0
 RDE .2558 RRA .0570 RC3 -.3328 FAU .03546 RRT .6358 RRF .5721 RTF .9097 CRT .9816 CRS -.2355 CST -.3064
 FDE .0266 FRA .4710 FC3-2.2641 BSP 19435 SGB 5444.2 R23 -.0116 R13 .9097 LSA 881.4 MSA 169.2 SSA 62.6
 BOE .5541 BRA .1809 BC3 7.2853 FSP -700 SG1 5431.7 SG2 368.8 THA 3.23 EL1 879.8 EL2 68.2 ALF 26.64

LAUNCH DATE MAR 7 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 508.251

RL 148.46 LAL .00 LOL 166.25 VL 26.346 GAL .52 AZL 89.03 HCA 254.18 SMA 121.34 ECC .22368 INC .9720 VI 30.012
 RP 107.96 LAP -.94 LOP 60.42 VP 36.944 GAP 11.29 AZP 90.26 TAL 178.21 TAP 72.38 RCA 94.20 APO 148.48 V2 35.102
 RC 182.422 GL 6.94 GP -16.49 ZAL 93.25 ZAP 161.69 ETS 300.10 ZAE 131.09 ETE 194.59 ZAC 163.53 ETC 189.09 CLP-171.92

PLANETOCENTRIC CONIC

C3 13.693 VHL 3.700 CLA 29.24 RAL 70.55 RAD 6567.5 VEL 11.622 PTH 2.04 VHP 7.856 DPA 5.13 RAP 70.33 ECC 1.2254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.39 21 59 48 3652.19 -22.31 142.77 293.42 70.60 23 0 40 3052.2 -24.76 134.87
 97.61 0 9 0 3247.27 -22.30 113.85 293.41 70.59 1 3 7 2647.3 -24.75 105.16
 100.00 1 20 11 3019.12 -26.22 97.49 294.74 75.11 2 10 30 2419.1 -28.01 89.14
 100.00 23 31 19 3355.58 -18.50 119.45 291.80 66.09 24 27 14 2755.6 -21.57 112.01
 110.00 3 53 33 2538.73 -33.66 62.66 296.35 83.68 4 35 52 1938.7 -34.17 53.45
 110.00 23 14 26 3408.73 -11.82 119.77 288.11 57.69 24 11 14 2808.7 -16.00 113.16

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5447 TRA .4473 TC3-6.9490 BAU 1.2731 SGT 5271.6 SGR 493.2 SG3 145.1 ST 889.8 SR 433.7 SS 226.4
 RDE .2789 RRA .0744 RC3 -.2681 FAU .02915 RRT .5728 RRF .5642 RTF .8943 CRT .9706 CRS -.5586 CST -.7084
 FDE .1033 FRA .5445 FC3-1.8432 BSP 16794 SGB 5294.6 R23 .0596 R13 .8946 LSA 997.8 MSA 180.8 SSA 53.7
 BOE .6119 BRA .4534 BC3 6.9542 FSP -468 SG1 5279.2 SG2 403.7 THA 3.09 EL1 985.4 EL2 94.3 ALF 25.57

LAUNCH DATE MAR 7 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 513.847

RL 148.46 LAL .00 LOL 166.25 VL 26.293 GAL 1.06 AZL 89.23 MCA 257.39 SMA 121.03 ECC .22736 INC .7690 V1 30.012
 RP 107.92 LAP -.75 LOP 63.64 VP 36.918 GAP 11.60 AZP 90.17 TAL 176.40 TAP 73.79 RCA 93.51 APO 148.55 V2 35.114
 RC 184.340 GL 5.42 GP -15.89 ZAL 89.40 ZAP 102.54 ETS 298.69 ZAE 131.30 ETE 194.14 ZAC 165.95 ETC 188.41 CLP-172.67

PLANETOCENTRIC CONIC

C3 13.984 VHL 3.740 DLA 28.18 RAL 75.11 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 8.013 DPA 6.17 RAP 72.56 ECC 1.2301
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 45 0 3375.27 -23.18 122.75 298.61 73.26 24 41 15 2775.3 -25.25 114.69
 90.00 22 56 15 3533.42 -19.70 133.04 297.34 69.24 23 55 8 2933.4 -22.35 125.37
 100.00 2 10 40 2918.29 -27.79 90.41 299.89 78.52 2 59 18 2318.3 -29.09 81.85
 100.00 23 17 12 3465.63 -15.34 126.09 295.37 64.02 24 14 58 2865.6 -18.70 118.92
 110.00 4 25 25 2496.53 -33.93 59.39 300.89 85.59 5 7 1 1896.5 -34.17 50.15
 110.00 23 18 56 3460.16 -9.93 122.56 292.24 57.12 24 16 36 2860.2 -14.20 116.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4539 TRA .6833 TC3-6.8658 BAU 1.2845 SGT 5316.2 SGR 494.3 SG3 142.1 ST 796.5 SR 430.3 SS 225.4
 RDE .2792 RRA .0882 RC3 -.2598 FAU .02759 RRT .5622 RRF .5487 RTF .8975 CRT .9185 CRS -.3860 CST -.6967
 FDE .0604 FRA .5942 FC3-1.7078 BSP 16980 SGB 5339.2 R23 .0497 R13 .8977 LSA 904.4 MSA 223.7 SSA 48.2
 BDE .5329 BRA .6890 BC3 6.8707 FSP -461 SG1 5323.5 SG2 408.2 THA 3.01 EL1 892.5 EL2 151.8 ALF 27.25

LAUNCH DATE MAR 7 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 519.416

RL 148.46 LAL .00 LOL 166.25 VL 26.241 GAL 1.62 AZL 89.43 MCA 260.61 SMA 120.73 ECC .23139 INC .5710 V1 30.012
 RP 107.88 LAP -.56 LOP 66.85 VP 36.892 GAP 11.93 AZP 90.09 TAL 174.59 TAP 75.20 RCA 92.79 APO 148.66 V2 35.126
 RC 186.236 GL 3.94 GP -15.35 ZAL 85.53 ZAP 163.33 ETS 297.08 ZAE 131.50 ETE 193.73 ZAC 168.37 ETC 187.52 CLP-173.42

PLANETOCENTRIC CONIC

C3 14.446 VHL 3.801 DLA 27.05 RAL 79.60 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 8.182 DPA 7.12 RAP 74.82 ECC 1.2377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 56 39 3219.22 -25.83 112.09 304.28 77.96 1 50 18 2619.2 -27.23 103.70
 90.00 22 24 24 3703.81 -15.26 143.57 300.60 65.85 23 26 7 3103.8 -18.39 136.29
 100.00 2 52 50 2844.69 -28.67 85.12 304.87 81.17 3 40 15 2244.7 -29.60 76.44
 100.00 23 10 54 3553.57 -12.65 131.24 299.30 62.69 24 10 8 2953.6 -16.21 124.26
 110.00 4 56 35 2457.45 -34.10 56.35 305.50 87.38 5 37 32 1857.4 -34.08 47.10
 110.00 23 23 38 3513.58 -7.95 125.42 296.51 56.64 24 22 12 2913.6 -12.28 119.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3506 TRA .9291 TC3-6.7014 BAU 1.2951 SGT 5357.5 SGR 494.5 SG3 139.1 ST 724.7 SR 425.6 SS 232.7
 RDE .2802 RRA .1027 RC3 -.2492 FAU .02606 RRT .5517 RRF .5341 RTF .9010 CRT .8062 CRS -.2041 CST -.7276
 FDE .0179 FRA .6421 FC3-1.5616 BSP 17175 SGB 5380.2 R23 .0409 R13 .9012 LSA 823.4 MSA 284.2 SSA 41.7
 BDE .4488 BRA .9347 BC3 6.7060 FSP -456 SG1 5364.5 SG2 411.9 THA 2.93 EL1 809.7 EL2 225.4 ALF 27.66

LAUNCH DATE MAR 7 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 524.954

RL 148.46 LAL .00 LOL 166.25 VL 26.189 GAL 2.21 AZL 89.62 MCA 263.82 SMA 120.43 ECC .23578 INC .3763 V1 30.012
 RP 107.85 LAP -.37 LOP 70.07 VP 36.866 GAP 12.27 AZP 90.04 TAL 172.79 TAP 76.62 RCA 92.03 APO 148.82 V2 35.138
 RC 188.109 GL 2.54 GP -14.86 ZAL 81.66 ZAP 164.06 ETS 295.25 ZAE 131.68 ETE 193.36 ZAC 170.79 ETC 186.26 CLP-174.16

PLANETOCENTRIC CONIC

C3 15.095 VHL 3.885 DLA 25.87 RAL 84.00 RAD 6567.6 VEL 11.682 PTH 2.05 VHP 8.365 DPA 7.99 RAP 77.12 ECC 1.2484
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 10 3131.92 -26.92 105.93 309.41 80.86 2 35 21 2531.9 -27.91 97.40
 90.00 22 12 57 3810.69 -12.19 149.91 304.52 64.24 23 16 27 3210.7 -15.55 142.85
 100.00 3 30 57 2784.39 -29.23 80.72 309.78 83.42 4 17 22 2184.4 -29.83 71.97
 100.00 23 7 50 3633.46 -10.11 135.81 303.44 61.72 24 8 23 3033.5 -13.81 128.98
 110.00 5 26 54 2421.65 -34.17 53.56 310.16 89.04 6 7 15 1821.6 -33.93 44.32
 110.00 23 28 23 3568.96 -5.86 128.35 300.86 56.26 24 27 52 2969.0 -10.25 122.02

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .2388 TRA 1.1921 TC3-6.4484 BAU 1.3022 SGT 5389.6 SGR 494.1 SG3 136.0 ST 700.1 SR 420.2 SS 248.44
 RDE .2821 RRA .1183 RC3 -.2352 FAU .02447 RRT .5413 RRF .5216 RTF .9039 CRT .6169 CRS -.0434 CST -.8016
 FDE -.0224 FRA .6926 FC3-1.4032 BSP 17241 SGB 5412.2 R23 .0350 R13 .9041 LSA 777.2 MSA 350.8 SSA 35.8
 BDE .3697 BRA 1.1979 BC3 6.4526 FSP -444 SG1 5396.2 SG2 415.0 THA 2.86 EL1 757.1 EL2 305.8 ALF 24.58

LAUNCH DATE MAR 7 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 530.455

RL 148.46 LAL .00 LOL 166.25 VL 26.138 GAL 2.83 AZL 89.82 MCA 267.05 SMA 120.14 ECC .24058 INC .1839 V1 30.012
 RP 107.81 LAP -.18 LOP 73.29 VP 36.841 GAP 12.64 AZP 90.01 TAL 171.00 TAP 78.05 RCA 91.23 APO 149.04 V2 35.150
 RC 189.959 GL 1.20 GP -14.41 ZAL 77.84 ZAP 164.73 ETS 293.21 ZAE 131.85 ETE 193.02 ZAC 173.20 ETC 184.21 CLP-174.91

PLANETOCENTRIC CONIC

C3 15.949 VHL 3.994 DLA 24.64 RAL 88.25 RAD 6567.6 VEL 11.719 PTH 2.06 VHP 8.563 DPA 8.78 RAP 79.46 ECC 1.2625
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 17 3065.18 -27.55 101.15 314.41 83.18 3 14 22 2465.2 -28.21 92.55
 90.00 22 6 47 3902.28 -9.42 155.22 308.66 63.17 23 11 49 3302.3 -12.95 148.31
 100.00 4 6 14 2733.27 -29.57 76.96 314.64 85.37 4 51 47 2133.3 -29.89 68.17
 100.00 23 6 31 3709.43 -7.63 140.09 307.70 61.01 24 8 20 3109.4 -11.44 133.37
 110.00 5 56 9 2389.36 -34.18 51.03 314.84 90.53 6 35 58 1789.4 -33.73 41.82
 110.00 23 33 5 3626.10 -3.69 131.35 305.28 55.99 24 33 31 3026.1 -8.13 125.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1115 TRA 1.4628 TC3-6.1390 BAU 1.3099 SGT 5422.2 SGR 492.1 SG3 132.9 ST 725.9 SR 412.9 SS 269.0
 RDE .2844 RRA .1341 RC3 -.2202 FAU .02299 RRT .5308 RRF .5086 RTF .9075 CRT .3670 CRS .1006 CST -.8807
 FDE -.0641 FRA .7402 FC3-1.2481 BSP 17404 SGB 5444.5 R23 .0284 R13 .9077 LSA 779.8 MSA 401.0 SSA 31.0
 BDE .3055 BRA 1.4689 BC3 6.1429 FSP -437 SG1 5428.5 SG2 416.6 THA 2.77 EL1 747.1 EL2 373.2 ALF 15.84

LAUNCH DATE MAR 7 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 535.915

RL 148.46 LAL .00 LOL 166.25 VL 26.087 GAL 3.47 AZL 90.01 MCA 270.27 SMA 119.85 ECC .24582 INC .0000 V1 30.012
 RP 107.78 LAP .01 LOP 76.52 VP 36.816 GAP 13.03 AZP 90.00 TAL 169.22 TAP 79.49 RCA 90.39 APO 149.32 V2 35.161
 RC 191.786 GL -.04 GP -14.00 ZAL 74.10 ZAP 165.35 ETS 290.93 ZAE 132.00 ETE 192.70 ZAC 175.60 ETC 180.05 CLP-175.65

PLANETOCENTRIC CONIC

C3 17.034 VHL 4.127 OLA 23.38 RAL 92.34 RAD 6567.7 VEL 11.765 PTH 2.08 VHP 8.777 DPA 9.49 RAP 81.83 ECC 1.2803
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 59 28 3010.89 -27.93 97.22 319.33 85.11 3 49 39 2410.9 -28.31 88.58
 90.00 22 3 13 3986.68 -6.79 160.03 312.93 62.44 23 9 40 3386.7 -10.43 153.24
 100.00 4 39 6 2689.64 -29.76 73.73 319.47 87.06 5 23 56 2089.6 -29.85 64.93
 100.00 23 6 16 3783.16 -5.18 144.19 312.05 60.52 24 9 19 3183.2 -9.07 137.56
 110.00 6 24 12 2360.87 -34.14 48.81 319.52 91.84 7 3 32 1760.9 -33.51 39.62
 110.00 23 37 40 3684.70 -1.46 134.42 309.74 55.84 24 39 5 3084.7 -5.93 128.19

DIFFERENTIAL CORRECTIONS

TDE -.0268 TRA 1.7477 TC3-5.7735 BAU 1.3156
 RDE .2874 RRA .1504 RC3 -.2033 FAU .02154
 FDE -.1050 FRA .7882 FC3-1.0947 BSP 17541
 BOE .2887 BRA 1.7542 BC3 5.7771 FSP -430

MID-COURSE EXECUTION ACCURACY

SGT 5449.9 SGR 489.0 SG3 129.9
 RRT .5201 RRF .4962 RTF .9111
 SGB 5471.8 R23 .0228 R13 .9112
 SG1 5455.8 SG2 417.2 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 806.6 SR 404.8 SS 293.6
 CRT .1225 CRS .2144 CST -.9379
 LSA 853.9 MSA 413.4 SSA 27.2
 EL1 808.7 EL2 400.8 ALF 4.67

LAUNCH DATE MAR 7 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 541.329

RL 148.46 LAL .00 LOL 166.25 VL 26.038 GAL 4.14 AZL 90.20 MCA 273.49 SMA 119.57 ECC .25155 INC .1981 V1 30.012
 RP 107.75 LAP .20 LOP 79.74 VP 36.791 GAP 13.44 AZP 90.01 TAL 167.46 TAP 80.95 RCA 89.50 APO 149.65 V2 35.172
 RC 193.588 GL -1.20 GP -13.63 ZAL 70.47 ZAP 165.91 ETS 288.41 ZAE 132.14 ETE 192.41 ZAC 177.93 ETC 166.55 CLP-176.40

PLANETOCENTRIC CONIC

C3 18.377 VHL 4.287 OLA 22.11 RAL 96.25 RAD 6567.7 VEL 11.822 PTH 2.09 VHP 9.008 DPA 10.13 RAP 84.22 ECC 1.3024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 32 37 2965.98 -28.14 93.95 324.18 86.74 4 22 3 2366.0 -28.30 85.29
 90.00 22 1 12 4066.86 -4.25 164.54 317.28 61.98 23 8 59 3466.9 -7.96 157.83
 100.00 5 9 48 2652.65 -29.86 70.99 324.27 88.50 5 54 0 2052.7 -29.75 62.18
 100.00 23 6 43 3855.42 -2.75 148.17 316.44 60.22 24 10 58 3255.4 -6.69 141.60
 110.00 6 50 53 2336.39 -34.07 46.90 324.20 92.97 7 29 49 1736.4 -33.28 37.75
 110.00 23 42 7 3744.44 .83 137.53 314.21 55.83 24 44 31 3144.4 -3.66 131.32

DIFFERENTIAL CORRECTIONS

TDE -.1713 TRA 2.0507 TC3-5.3588 BAU 1.3174
 RDE .2916 RRA .1673 RC3 -.1845 FAU .02004
 FDE -.1434 FRA .8381 FC3 -.9442 BSP 17568
 BOE .3382 BRA 2.0575 BC3 5.3620 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 5469.4 SGR 484.9 SG3 126.8
 RRT .5095 RRF .4849 RTF .9144
 SGB 5490.9 R23 .0189 R13 .9145
 SG1 5475.0 SG2 416.8 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 926.9 SR 396.4 SS 319.8
 CRT -.0662 CRS .2967 CST -.9691
 LSA 978.5 MSA 400.8 SSA 24.2
 EL1 927.4 EL2 395.4 ALF 178.02

LAUNCH DATE MAR 7 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 546.688

RL 148.46 LAL .00 LOL 166.25 VL 25.989 GAL 4.85 AZL 90.39 MCA 276.72 SMA 119.30 ECC .25780 INC .3913 V1 30.012
 RP 107.71 LAP .39 LOP 82.97 VP 36.767 GAP 13.88 AZP 90.05 TAL 165.71 TAP 82.43 RCA 88.55 APO 150.06 V2 35.182
 RC 195.366 GL -2.27 GP -13.29 ZAL 66.97 ZAP 166.41 ETS 285.65 ZAE 132.27 ETE 192.13 ZAC 178.97 ETC 69.27 CLP-177.15

PLANETOCENTRIC CONIC

C3 20.013 VHL 4.474 OLA 20.86 RAL 99.94 RAD 6567.8 VEL 11.891 PTH 2.11 VHP 9.258 DPA 10.69 RAP 86.63 ECC 1.3294
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 3 9 2928.98 -28.26 91.25 328.98 88.09 4 51 58 2329.0 -28.22 82.59
 90.00 22 0 10 4144.14 -1.76 168.87 321.66 61.73 23 9 14 3544.1 -5.53 162.21
 100.00 5 38 24 2621.85 -29.89 68.70 329.02 89.71 6 22 6 2021.8 -29.61 59.90
 100.00 23 7 36 3926.50 -.34 152.08 320.87 60.11 24 13 3 3326.5 -4.31 145.54
 110.00 7 16 7 2316.13 -33.99 45.32 328.87 93.90 7 54 43 1716.1 -33.07 36.20
 110.00 23 46 23 3804.98 3.14 140.69 318.70 55.94 24 49 48 3205.0 -1.35 134.49

DIFFERENTIAL CORRECTIONS

TDE -.3302 TRA 2.3639 TC3-4.9294 BAU 1.3196
 RDE .2964 RRA .1839 RC3 -.1658 FAU .01867
 FDE -.1827 FRA .8866 FC3 -.8075 BSP 17705
 BOE .4437 BRA 2.3711 BC3 4.9322 FSP -412

MID-COURSE EXECUTION ACCURACY

SGT 5488.9 SGR 479.2 SG3 123.8
 RRT .4982 RRF .4728 RTF .9183
 SGB 5509.7 R23 .0146 R13 .9183
 SG1 5494.1 SG2 415.1 THA 2.50

ORBIT DETERMINATION ACCURACY

ST 1068.2 SR 387.1 SS 346.9
 CRT -.2090 CRS .3643 CST -.9845
 LSA 1125.4 MSA 379.8 SSA 21.8
 EL1 1071.7 EL2 377.3 ALF 175.05

LAUNCH DATE MAR 7 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 551.984

RL 148.46 LAL .00 LOL 166.25 VL 25.941 GAL 5.60 AZL 90.59 MCA 279.95 SMA 119.04 ECC .26464 INC .5871 V1 30.012
 RP 107.68 LAP .58 LOP 86.20 VP 36.742 GAP 14.36 AZP 90.10 TAL 163.98 TAP 83.93 RCA 87.53 APO 150.54 V2 35.192
 RC 197.118 GL -3.24 GP -12.98 ZAL 63.64 ZAP 166.86 ETS 282.63 ZAE 132.38 ETE 191.88 ZAC 176.91 ETC 27.55 CLP-177.91

PLANETOCENTRIC CONIC

C3 21.983 VHL 4.689 OLA 19.62 RAL 103.43 RAD 6567.9 VEL 11.973 PTH 2.13 VHP 9.529 DPA 11.19 RAP 89.05 ECC 1.3618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 31 19 2898.99 -28.31 89.06 333.73 89.19 5 19 38 2299.0 -28.12 80.40
 90.00 21 59 49 4219.19 .66 173.05 326.07 61.69 23 10 8 3619.2 -3.13 166.42
 100.00 6 5 1 2596.88 -29.89 66.84 333.73 90.69 6 48 18 1996.9 -29.47 58.06
 100.00 23 8 48 3996.54 2.04 155.92 325.31 60.17 24 15 25 3396.5 -1.95 149.40
 110.00 7 39 51 2300.18 -33.91 44.09 333.51 94.63 8 18 11 1700.2 -32.89 34.99
 110.00 23 50 28 3866.00 5.46 143.89 323.18 56.20 24 54 54 3266.0 -.98 137.67

DIFFERENTIAL CORRECTIONS

TDE -.4972 TRA 2.6943 TC3-4.4858 BAU 1.3191
 RDE .3022 RRA .2006 RC3 -.1469 FAU .01731
 FDE -.2208 FRA .9365 FC3 -.6819 BSP 17804
 BOE .5819 BRA 2.7018 BC3 4.4882 FSP -404

MID-COURSE EXECUTION ACCURACY

SGT 5502.9 SGR 472.3 SG3 120.9
 RRT .4865 RRF .4609 RTF .9222
 SGB 5523.1 R23 .0111 R13 .9222
 SG1 5507.7 SG2 412.3 THA 2.40

ORBIT DETERMINATION ACCURACY

ST 1218.5 SR 377.5 SS 373.7
 CRT -.3087 CRS .4151 CST -.9919
 LSA 1279.9 MSA 358.5 SSA 19.8
 EL1 1224.6 EL2 357.3 ALF 174.03

LAUNCH DATE MAR 7 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 25.894 GAL 6.38 AZL 90.79 MCA 283.18 SMA 118.77 ECC .27214 INC .7868 V1 30.012
 RP 107.66 LAP .77 LOP 89.43 VP 36.718 GAP 14.87 AZP 90.18 TAL 162.27 TAP 85.45 RCA 86.45 APO 151.10 V2 35.201
 RC 198.846 GL -4.11 GP -12.69 ZAL 60.47 ZAP 167.24 ETS 279.37 ZAE 132.48 ETE 191.64 ZAC 174.55 ETC 20.32 CLP-178.67

PLANETOCENTRIC CONIC
 C3 24.337 VHL 4.933 DLA 18.42 RAL 106.70 RAD 6568.0 VEL 12.071 PTH 2.16 VHP 9.824 DPA 11.61 RAP 91.49 ECC 1.4005
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 19 2875.41 -28.32 87.34 338.42 90.05 5 45 14 2275.4 -28.01 78.68
 90.00 21 59 55 4292.35 3.02 177.13 330.49 61.83 23 11 28 3692.3 -7.77 170.50
 100.00 6 29 42 2577.46 -29.86 65.40 338.40 91.45 7 12 40 1977.5 -29.34 56.63
 100.00 23 10 12 4065.54 4.37 159.71 329.74 60.40 24 17 58 3465.5 .39 153.18
 110.00 8 2 3 2288.55 -33.84 43.18 338.13 95.16 8 40 11 1688.6 -32.75 34.12
 110.00 23 54 21 3927.20 7.77 147.13 327.65 56.61 24 59 49 3327.2 3.32 140.87

MID-COURSE EXECUTION ACCURACY
 SGT 5512.4 SGR 464.1 SG3 118.1 ST 1369.0 SR 367.8 SS 399.6
 RRT .4741 RRF .4488 RTF .9263 CRT -.3797 CRS .4539 CST -.9955
 SGB 5531.9 R23 .0082 R13 .9263 LSA 1433.2 MSA 339.0 SSA 18.2
 SG1 5516.8 SG2 408.3 THA 2.30 EL1 1376.6 EL2 338.3 ALF 173.80

ORBIT DETERMINATION ACCURACY
 ST 1369.0 SR 367.8 SS 399.6
 CRT -.3797 CRS .4539 CST -.9955
 LSA 1433.2 MSA 339.0 SSA 18.2
 EL1 1376.6 EL2 338.3 ALF 173.80

DIFFERENTIAL CORRECTIONS
 TDE -.6732 TRA 3.0427 TC3-4.0417 BAU 1.3157
 RDE .3091 RRA .2170 RC3 -.1282 FAU .01600
 FDE -.2580 FRA .9878 FC3 -.5690 BSP 17891
 BDE .7408 BRA 3.0504 BC3 4.0437 FSP -396

LAUNCH DATE MAR 7 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 25.848 GAL 7.22 AZL 90.99 MCA 286.41 SMA 118.52 ECC .28035 INC .9920 V1 30.012
 RP 107.63 LAP .95 LOP 92.66 VP 36.693 GAP 15.43 AZP 90.28 TAL 160.59 TAP 87.00 RCA 85.29 APO 151.75 V2 35.209
 RC 200.549 GL -4.89 GP -12.43 ZAL 57.48 ZAP 167.56 ETS 275.87 ZAE 132.56 ETE 191.41 ZAC 172.16 ETC 17.45 CLP-179.45

PLANETOCENTRIC CONIC
 C3 27.134 VHL 5.209 DLA 17.27 RAL 109.76 RAD 6568.1 VEL 12.186 PTH 2.19 VHP 10.146 DPA 11.97 RAP 93.93 ECC 1.4466
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 21 15 2857.75 -28.31 86.04 343.06 90.70 6 8 53 2257.8 -27.91 77.40
 90.00 22 0 21 4363.78 5.30 181.14 334.90 62.14 23 13 5 3763.8 1.53 174.49
 100.00 6 52 34 2563.30 -29.83 64.34 343.01 92.00 7 35 17 1963.3 -29.24 55.59
 100.00 23 11 44 4133.46 6.64 163.48 334.17 60.79 24 20 38 3533.5 2.70 156.91
 110.00 8 22 44 2281.19 -33.79 42.61 342.71 95.49 9 0 45 1681.2 -32.66 33.56
 110.00 0 1 59 3988.34 10.04 150.40 332.10 57.15 1 8 28 3388.3 5.64 144.08

MID-COURSE EXECUTION ACCURACY
 SGT 5515.6 SGR 455.0 SG3 115.3 ST 1511.7 SR 358.2 SS 423.8
 RRT .4614 RRF .4373 RTF .9303 CRT -.4286 CRS .4815 CST -.9973
 SGB 5534.3 R23 .0065 R13 .9303 LSA 1577.7 MSA 322.3 SSA 16.9
 SG1 5519.6 SG2 403.4 THA 2.19 EL1 1519.8 EL2 321.9 ALF 173.93

ORBIT DETERMINATION ACCURACY
 ST 1511.7 SR 358.2 SS 423.8
 CRT -.4286 CRS .4815 CST -.9973
 LSA 1577.7 MSA 322.3 SSA 16.9
 EL1 1519.8 EL2 321.9 ALF 173.93

DIFFERENTIAL CORRECTIONS
 TDE -.8531 TRA 3.4144 TC3-3.6010 BAU 1.3069
 RDE .3173 RRA .2331 RC3 -.1098 FAU .01464
 FDE -.2929 FRA 1.0423 FC3 -.4671 BSP 17868
 BDE .9102 BRA 3.4223 BC3 3.6026 FSP -385

LAUNCH DATE MAR 7 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 25.802 GAL 8.11 AZL 91.20 MCA 289.65 SMA 118.27 ECC .28937 INC 1.2042 V1 30.012
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.669 GAP 16.03 AZP 90.40 TAL 158.95 TAP 88.59 RCA 84.05 APO 152.50 V2 35.217
 RC 202.227 GL -5.58 GP -12.19 ZAL 54.67 ZAP 167.81 ETS 272.13 ZAE 132.62 ETE 191.20 ZAC 169.77 ETC 15.91 CLP 179.76

PLANETOCENTRIC CONIC
 C3 30.450 VHL 5.518 DLA 16.17 RAL 112.60 RAD 6568.2 VEL 12.322 PTH 2.22 VHP 10.497 DPA 12.26 RAP 96.38 ECC 1.5011
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 43 17 2845.57 -28.30 85.15 347.64 91.15 6 30 43 2245.6 -27.84 76.52
 90.00 22 1 1 4433.57 7.50 185.08 339.31 62.62 23 14 55 3833.6 3.78 178.39
 100.00 7 13 40 2554.12 -29.81 63.66 347.58 92.36 7 56 14 1954.1 -29.16 54.92
 100.00 23 13 20 4200.25 8.84 167.21 338.59 61.33 24 23 20 3600.2 4.95 160.59
 110.00 8 41 55 2277.97 -33.77 42.36 347.26 95.64 9 19 53 1678.0 -32.62 33.32
 110.00 0 5 30 4049.17 12.27 153.71 336.54 57.84 1 12 59 3449.2 7.93 147.30

MID-COURSE EXECUTION ACCURACY
 SGT 5516.5 SGR 444.2 SG3 112.7 ST 1647.0 SR 348.3 SS 447.5
 RRT .4469 RRF .4240 RTF .9348 CRT -.4684 CRS .5066 CST -.9984
 SGB 5534.4 R23 .0046 R13 .9348 LSA 1714.7 MSA 306.4 SSA 15.8
 SG1 5520.1 SG2 397.1 THA 2.07 EL1 1655.3 EL2 306.2 ALF 174.14

ORBIT DETERMINATION ACCURACY
 ST 1647.0 SR 348.3 SS 447.5
 CRT -.4684 CRS .5066 CST -.9984
 LSA 1714.7 MSA 306.4 SSA 15.8
 EL1 1655.3 EL2 306.2 ALF 174.14

DIFFERENTIAL CORRECTIONS
 TDE -1.0467 TRA 3.8020 TC3-3.1852 BAU 1.2972
 RDE .3264 RRA .2482 RC3 -.0930 FAU .01339
 FDE -.3290 FRA 1.0972 FC3 -.3808 BSP 17948
 BDE 1.0964 BRA 3.8101 BC3 3.1865 FSP -378

LAUNCH DATE MAR 7 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC
 RL 148.46 LAL .00 LOL 166.25 VL 25.758 GAL 9.05 AZL 91.43 MCA 292.88 SMA 118.03 ECC .29929 INC 1.4252 V1 30.012
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.645 GAP 16.68 AZP 90.55 TAL 157.34 TAP 90.22 RCA 82.71 APO 153.36 V2 35.225
 RC 203.880 GL -6.20 GP -11.96 ZAL 52.05 ZAP 167.99 ETS 268.18 ZAE 132.65 ETE 190.99 ZAC 167.40 ETC 14.94 CLP 178.96

PLANETOCENTRIC CONIC
 C3 34.373 VHL 5.863 DLA 15.13 RAL 115.24 RAD 6568.4 VEL 12.480 PTH 2.26 VHP 10.882 DPA 12.48 RAP 98.81 ECC 1.5657
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 3 32 2838.44 -28.28 84.63 352.16 91.41 6 50 50 2238.4 -27.79 76.00
 90.00 22 1 51 4501.72 9.62 188.98 343.69 63.24 23 16 53 3901.7 5.95 182.22
 100.00 7 33 6 2549.60 -29.79 63.33 352.10 92.53 8 15 35 1949.6 -29.13 54.59
 100.00 23 14 58 4265.81 10.96 170.93 342.98 62.01 24 26 4 3665.8 7.13 164.23
 110.00 8 59 41 2278.69 -33.78 42.42 351.77 95.61 9 37 39 1678.7 -32.63 33.37
 110.00 0 8 48 4109.48 14.43 157.05 340.96 58.67 1 17 18 3509.5 10.17 150.53

MID-COURSE EXECUTION ACCURACY
 SGT 5512.0 SGR 432.3 SG3 110.1 ST 1770.6 SR 338.5 SS 470.1
 RRT .4312 RRF .4099 RTF .9394 CRT -.4992 CRS .5270 CST -.9989
 SGB 5529.0 R23 .0032 R13 .9395 LSA 1839.9 MSA 292.0 SSA 14.8
 SG1 5515.2 SG2 389.8 THA 1.95 EL1 1778.9 EL2 291.9 ALF 174.40

ORBIT DETERMINATION ACCURACY
 ST 1770.6 SR 338.5 SS 470.1
 CRT -.4992 CRS .5270 CST -.9989
 LSA 1839.9 MSA 292.0 SSA 14.8
 EL1 1778.9 EL2 291.9 ALF 174.40

DIFFERENTIAL CORRECTIONS
 TDE -1.2483 TRA 4.2132 TC3-2.7899 BAU 1.2826
 RDE .3366 RRA .2622 RC3 -.0773 FAU .01217
 FDE -.3644 FRA 1.1550 FC3 -.3065 BSP 18017
 BDE 1.2929 BRA 4.2214 BC3 2.7910 FSP -370

LAUNCH DATE MAR 7 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 577.075

RL 148.46 LAL .00 LOL 166.25 VL 25.714 GAL 10.07 AZL 91.66 MCA 296.12 SMA 117.80 ECC .31023 INC 1.6572 V1 30.012
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.621 GAP 17.39 AZP 90.73 TAL 155.77 TAP 91.89 RCA 81.25 APO 154.34 V2 35.232
 RC 205.508 GL -6.73 GP -11.76 ZAL 49.61 ZAP 168.09 ETS 264.05 ZAE 132.66 ETE 190.79 ZAC 165.04 ETC 14.28 CLP 178.13

PLANETOCENTRIC CONIC

C3 39.016 VHL 6.246 OLA 14.16 RAL 117.68 RAD 6568.5 VEL 12.664 PTH 2.30 VHP 11.305 DPA 12.65 RAP 101.24 ECC 1.6421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 4 2835.97 -28.28 84.45 356.62 91.50 7 9 20 2236.0 -27.77 75.82
 90.00 22 2 47 4568.21 11.63 192.83 348.05 64.00 23 18 55 3968.2 8.04 185.99
 100.00 7 50 56 2549.38 -29.79 63.31 356.56 92.54 8 33 26 1949.4 -29.12 54.57
 100.00 23 16 36 4330.04 12.98 174.62 347.36 62.84 24 28 46 3730.0 9.24 167.83
 110.00 9 16 2 2283.11 -33.80 42.76 356.23 95.41 9 54 5 1683.1 -32.69 33.71
 110.00 0 11 56 4169.07 16.51 160.41 345.36 59.63 1 21 25 3569.1 12.35 153.77

DIFFERENTIAL CORRECTIONS

TDE-1.4611 TRA 4.6502 TC3-2.4208 BAU 1.2631
 RDE .3482 RRA .2748 RC3 -.0630 FAU .01095
 FDE -.3996 FRA 1.2162 FC3 -.2429 BSP 18033
 BOE 1.5020 BRA 4.6583 BC3 2.4216 FSP -363

MID-COURSE EXECUTION ACCURACY

SGT 5504.0 SGR 419.2 SG3 107.6
 RRT .4132 RRF .3944 RTF .9442
 SGB 5519.9 R23 .0026 R13 .9442
 SG1 5506.7 SG2 581.6 TMA 1.81

ORBIT DETERMINATION ACCURACY

ST 1883.1 SR 328.7 SS 491.9
 CRT -.5248 CRS .5445 CST -.9993
 LSA 1954.1 MSA 278.7 SSA 13.9
 EL1 1891.2 EL2 278.6 ALF 174.65

LAUNCH DATE MAR 7 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 581.682

RL 148.46 LAL .00 LOL 166.25 VL 25.672 GAL 11.16 AZL 91.90 MCA 299.35 SMA 117.57 ECC .32233 INC 1.9024 V1 30.012
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.597 GAP 18.18 AZP 90.93 TAL 154.27 TAP 93.62 RCA 79.67 APO 155.46 V2 35.238
 RC 207.111 GL -7.20 GP -11.57 ZAL 47.36 ZAP 168.11 ETS 259.76 ZAE 132.64 ETE 190.59 ZAC 162.70 ETC 13.80 CLP 177.28

PLANETOCENTRIC CONIC

C3 44.517 VHL 6.672 OLA 13.25 RAL 119.94 RAD 6568.7 VEL 12.880 PTH 2.35 VHP 11.772 DPA 12.76 RAP 103.65 ECC 1.7326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 39 2 2837.75 -28.28 84.58 1.01 91.43 7 26 19 2237.7 -27.79 75.95
 90.00 22 3 47 4632.97 13.53 196.63 352.38 64.89 23 21 0 4033.0 10.04 189.69
 100.00 8 7 17 2553.13 -29.81 63.59 .95 92.39 8 49 50 1953.1 -29.15 54.85
 100.00 23 18 13 4392.81 14.90 178.29 351.70 63.79 24 31 26 3792.8 11.26 171.40
 110.00 9 31 4 2290.98 -33.85 43.37 .64 95.05 10 9 15 1691.0 -32.78 34.30
 110.00 0 14 52 4227.73 18.49 163.80 349.73 60.73 1 25 19 3627.7 14.45 157.02

DIFFERENTIAL CORRECTIONS

TDE-1.6792 TRA 5.1192 TC3-2.0758 BAU 1.2358
 RDE .3612 RRA .2856 RC3 -.0500 FAU .00969
 FDE -.4339 FRA 1.2822 FC3 -.1885 BSP 17975
 BOE 1.7176 BRA 5.1271 BC3 2.0764 FSP -353

MID-COURSE EXECUTION ACCURACY

SGT 5490.8 SGR 405.1 SG3 105.2
 RRT .3937 RRF .3777 RTF .9490
 SGB 5505.7 R23 .0026 R13 .9490
 SG1 5493.1 SG2 372.3 TMA 1.67

ORBIT DETERMINATION ACCURACY

ST 1980.4 SR 319.2 SS 512.7
 CRT -.5451 CRS .5587 CST -.9995
 LSA 2053.2 MSA 266.6 SSA 13.1
 EL1 1988.2 EL2 266.6 ALF 174.89

LAUNCH DATE MAR 7 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 586.084

RL 148.46 LAL .00 LOL 166.25 VL 25.630 GAL 12.33 AZL 92.16 MCA 302.59 SMA 117.35 ECC .33574 INC 2.1638 V1 30.012
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.573 GAP 19.04 AZP 91.17 TAL 152.82 TAP 95.41 RCA 77.95 APO 156.75 V2 35.243
 RC 208.690 GL -7.60 GP -11.40 ZAL 45.28 ZAP 168.05 ETS 255.35 ZAE 132.59 ETE 190.40 ZAC 160.40 ETC 13.43 CLP 176.40

PLANETOCENTRIC CONIC

C3 51.050 VHL 7.145 OLA 12.41 RAL 122.00 RAD 6568.9 VEL 13.131 PTH 2.40 VHP 12.289 DPA 12.82 RAP 106.03 ECC 1.8401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 54 28 2843.37 -28.29 84.99 5.31 91.23 7 41 52 2243.4 -27.82 76.36
 90.00 22 4 49 4695.88 15.32 200.39 356.66 65.89 23 23 5 4095.9 11.93 193.35
 100.00 8 22 11 2560.49 -29.82 64.14 5.26 92.11 9 4 51 1960.5 -29.21 55.38
 100.00 23 19 48 4453.99 16.71 181.94 355.99 64.85 24 34 2 3854.0 13.18 174.92
 110.00 9 44 48 2301.98 -33.92 44.23 4.98 94.55 10 23 10 1702.0 -32.91 35.13
 110.00 0 17 36 4285.27 20.37 167.20 354.06 61.94 1 29 1 3685.3 16.46 160.26

DIFFERENTIAL CORRECTIONS

TDE-1.9137 TRA 5.6154 TC3-1.7634 BAU 1.2038
 RDE .3754 RRA .2939 RC3 -.0388 FAU .00849
 FDE -.4701 FRA 1.3515 FC3 -.1439 BSP 18003
 BOE 1.9502 BRA 5.6230 BC3 1.7638 FSP -346

MID-COURSE EXECUTION ACCURACY

SGT 5473.9 SGR 389.8 SG3 102.8
 RRT .3705 RRF .3574 RTF .9539
 SGB 5487.8 R23 .0026 R13 .9539
 SG1 5475.8 SG2 361.9 TMA 1.52

ORBIT DETERMINATION ACCURACY

ST 2067.4 SR 309.6 SS 534.1
 CRT -.5650 CRS .5738 CST -.9997
 LSA 2142.5 MSA 254.5 SSA 12.4
 EL1 2074.9 EL2 254.5 ALF 175.09

LAUNCH DATE MAR 7 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 590.237

RL 148.46 LAL .00 LOL 166.25 VL 25.590 GAL 13.61 AZL 92.44 MCA 305.83 SMA 117.13 ECC .35064 INC 2.4450 V1 30.012
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.549 GAP 20.00 AZP 91.43 TAL 151.46 TAP 97.28 RCA 76.06 APO 158.21 V2 35.248
 RC 210.244 GL -7.95 GP -11.24 ZAL 43.38 ZAP 167.89 ETS 250.87 ZAE 132.49 ETE 190.20 ZAC 158.12 ETC 13.15 CLP 175.48

PLANETOCENTRIC CONIC

C3 58.833 VHL 7.670 OLA 11.64 RAL 123.89 RAD 6569.1 VEL 13.424 PTH 2.45 VHP 12.865 DPA 12.82 RAP 108.37 ECC 1.9682
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 28 2852.45 -28.30 85.66 9.52 90.89 7 56 1 2252.4 -27.88 77.02
 90.00 22 5 52 4756.80 16.98 204.09 .88 66.99 23 25 9 4156.8 13.71 196.93
 100.00 8 35 43 2571.09 -29.85 64.92 9.48 91.69 9 18 34 1971.1 -29.29 56.16
 100.00 23 21 19 4513.39 18.39 185.55 .23 66.01 24 36 32 3913.4 15.00 178.40
 110.00 9 57 17 2315.81 -33.99 45.30 9.24 93.92 10 35 53 1715.8 -33.07 36.18
 110.00 0 20 9 4341.43 22.13 170.61 358.34 63.26 1 32 31 3741.4 18.37 163.50

DIFFERENTIAL CORRECTIONS

TDE-2.1610 TRA 6.1474 TC3-1.4783 BAU 1.1630
 RDE .3912 RRA .2993 RC3 -.0291 FAU .00725
 FDE -.5070 FRA 1.4264 FC3 -.1067 BSP 18018
 BOE 2.1961 BRA 6.1547 BC3 1.4786 FSP -339

MID-COURSE EXECUTION ACCURACY

SGT 5452.5 SGR 373.5 SG3 100.5
 RRT .3437 RRF .3337 RTF .9589
 SGB 5465.3 R23 .0029 R13 .9589
 SG1 5454.1 SG2 350.6 TMA 1.35

ORBIT DETERMINATION ACCURACY

ST 2142.1 SR 300.1 SS 555.7
 CRT -.5837 CRS .5885 CST -.9997
 LSA 2220.0 MSA 242.9 SSA 11.7
 EL1 2149.4 EL2 242.9 ALF 175.26

LAUNCH DATE MAR 7 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 594.086

RL 148.46 LAL .00 LOL 166.25 VL 25.551 GAL 15.00 AZL 92.75 MCA 309.06 SMA 116.93 ECC .36726 INC 2.7501 V1 30.012
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.526 GAP 21.07 AZP 91.73 TAL 150.18 TAP 99.24 RCA 73.99 APO 159.87 V2 35.252
 RC 211.773 GL -8.25 GP -11.09 ZAL 41.65 ZAP 167.64 ETS 246.36 ZAE 132.35 ETE 190.00 ZAC 155.89 ETC 12.93 CLP 174.52

PLANETOCENTRIC CONIC

C3 68.148 VHL 8.255 DLA 10.94 RAL 125.60 RAD 6569.3 VEL 13.766 PTH 2.51 VHP 13.507 DPA 12.78 RAP 110.68 ECC 2.1215
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 21 5 2864.60 -28.31 86.55 13.62 90.45 8 8 50 2264.6 -27.95 77.90
 90.00 22 6 54 4815.53 18.50 207.73 5.01 68.17 23 27 9 4215.5 15.38 200.44
 100.00 8 47 54 2584.58 -29.87 65.92 13.60 91.17 9 30 59 1984.6 -29.39 57.15
 100.00 23 22 45 4570.79 19.94 189.11 4.39 67.26 24 38 56 3970.8 16.69 181.82
 110.00 10 8 35 2332.15 -34.05 46.57 13.41 93.17 10 47 27 1732.1 -33.24 37.42
 110.00 0 22 30 4395.98 23.77 174.01 2.55 64.67 1 35 46 3796.0 20.16 166.72

DIFFERENTIAL CORRECTIONS

TDE-2.4223 TRA 6.7200 TC3-1.2200 BAU 1.1117
 RDE .4087 RRA .3012 RC3 -.0208 FAU .00597
 FDE -.5452 FRA 1.5078 FC3 -.0758 BSP 18006
 BOE 2.4565 BRA 6.7267 BC3 1.2202 FSP -331

MID-COURSE EXECUTION ACCURACY

SGT 5426.9 SGR 356.3 SG3 98.3
 RRT .3122 RRF .3055 RTF .9637
 SGB 5438.5 R23 .0036 R13 .9638
 SG1 5428.0 SG2 338.5 THA 1.18

ORBIT DETERMINATION ACCURACY

ST 2204.8 SR 290.8 SS 578.2
 CRT -.6018 CRS .6034 CST -.9998
 LSA 2286.1 MSA 231.5 SSA 11.1
 EL1 2211.8 EL2 231.5 ALF 175.41

LAUNCH DATE MAR 7 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 597.560

RL 148.46 LAL .00 LOL 166.25 VL 25.514 GAL 16.53 AZL 93.08 MCA 312.30 SMA 116.73 ECC .38586 INC 3.0847 V1 30.012
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.503 GAP 22.26 AZP 92.08 TAL 149.01 TAP 101.31 RCA 71.69 APO 161.77 V2 35.255
 RC 213.276 GL -8.50 GP -10.96 ZAL 40.11 ZAP 167.28 ETS 241.85 ZAE 132.15 ETE 189.80 ZAC 153.71 ETC 12.76 CLP 173.50

PLANETOCENTRIC CONIC

C3 79.355 VHL 8.908 DLA 10.32 RAL 127.13 RAD 6569.6 VEL 14.167 PTH 2.58 VHP 14.229 DPA 12.70 RAP 112.92 ECC 2.3060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 32 20 2879.46 -28.32 87.63 17.59 89.90 8 20 19 2279.5 -28.03 78.98
 90.00 22 7 53 4871.84 19.89 211.27 9.05 69.42 23 29 5 4271.8 16.91 203.87
 100.00 8 58 48 2600.60 -29.89 67.12 17.59 90.54 9 42 8 2000.6 -29.49 58.33
 100.00 23 24 7 4625.93 21.35 192.59 8.45 68.57 24 41 13 4025.9 18.25 185.17
 110.00 10 18 40 2350.67 -34.11 48.01 17.46 92.32 10 57 51 1750.7 -33.42 38.84
 110.00 0 24 40 4448.63 25.26 177.37 6.68 66.16 1 38 48 3848.6 21.82 169.91

DIFFERENTIAL CORRECTIONS

TDE-2.6956 TRA 7.3430 TC3 -.9852 BAU 1.0455
 RDE .4284 RRA .2987 RC3 -.0140 FAU .00455
 FDE -.5843 FRA 1.5980 FC3 -.0496 BSP 17874
 BOE 2.7294 BRA 7.3491 BC3 .9853 FSP -322

MID-COURSE EXECUTION ACCURACY

SGT 5397.4 SGR 338.6 SG3 96.2
 RRT .2753 RRF .2721 RTF .9685
 SGB 5408.0 R23 .0047 R13 .9685
 SG1 5398.2 SG2 325.5 THA .99

ORBIT DETERMINATION ACCURACY

ST 2254.5 SR 281.7 SS 601.6
 CRT -.6193 CRS .6180 CST -.9998
 LSA 2359.9 MSA 220.6 SSA 10.5
 EL1 2261.3 EL2 220.5 ALF 175.53

LAUNCH DATE MAR 7 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 600.565

RL 148.46 LAL .00 LOL 166.25 VL 25.478 GAL 18.22 AZL 93.46 MCA 315.54 SMA 116.54 ECC .40674 INC 3.4556 V1 30.012
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.480 GAP 23.61 AZP 92.47 TAL 147.98 TAP 103.52 RCA 69.14 APO 163.95 V2 35.258
 RC 214.754 GL -8.70 GP -10.83 ZAL 38.73 ZAP 166.81 ETS 237.39 ZAE 131.87 ETE 189.58 ZAC 151.59 ETC 12.63 CLP 172.42

PLANETOCENTRIC CONIC

C3 92.923 VHL 9.640 DLA 9.76 RAL 128.49 RAD 6569.8 VEL 14.638 PTH 2.65 VHP 15.044 DPA 12.58 RAP 115.10 ECC 2.5293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 42 14 2896.70 -28.31 88.89 21.41 89.27 8 30 31 2296.7 -28.11 80.23
 90.00 22 8 50 4925.42 21.13 214.71 12.94 70.70 23 30 55 4325.4 18.31 207.18
 100.00 9 8 23 2618.85 -29.89 68.47 21.42 89.83 9 52 2 2018.8 -29.60 59.68
 100.00 23 25 22 4678.51 22.62 195.98 12.37 69.92 24 43 20 4078.5 19.68 188.42
 110.00 10 27 34 2371.07 -34.16 49.61 21.37 91.37 11 7 5 1771.1 -33.59 40.41
 110.00 0 26 36 4499.05 26.60 180.67 10.67 67.70 1 41 35 3899.0 23.34 173.03

DIFFERENTIAL CORRECTIONS

TDE-2.9934 TRA 8.0119 TC3 -.7779 BAU .9664
 RDE .4503 RRA .2905 RC3 -.0086 FAU .00307
 FDE -.6271 FRA 1.6959 FC3 -.0286 BSP 17869
 BOE 3.0271 BRA 8.0172 BC3 .7779 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 5363.2 SGR 320.3 SG3 94.2
 RRT .2300 RRF .2301 RTF .9730
 SGB 5372.7 R23 .0057 R13 .9730
 SG1 5363.7 SG2 311.7 THA .79

ORBIT DETERMINATION ACCURACY

ST 2295.4 SR 272.8 SS 627.5
 CRT -.6388 CRS .6351 CST -.9999
 LSA 2386.1 MSA 209.4 SSA 9.8
 EL1 2302.1 EL2 209.2 ALF 175.62

LAUNCH DATE MAR 7 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 602.981

RL 148.46 LAL .00 LOL 166.25 VL 25.444 GAL 20.10 AZL 93.87 MCA 318.77 SMA 116.37 ECC .43028 INC 3.8720 V1 30.012
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.458 GAP 25.13 AZP 92.91 TAL 147.11 TAP 105.88 RCA 66.30 APO 166.44 V2 35.259
 RC 216.204 GL -8.87 GP -10.70 ZAL 37.55 ZAP 166.21 ETS 233.00 ZAE 131.52 ETE 189.34 ZAC 149.56 ETC 12.53 CLP 171.25

PLANETOCENTRIC CONIC

C3 109.468 VHL 10.463 DLA 9.28 RAL 129.67 RAD 6570.1 VEL 15.192 PTH 2.73 VHP 15.968 DPA 12.43 RAP 117.20 ECC 2.8016
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 50 46 2916.03 -28.28 90.31 25.04 88.56 8 39 22 2316.0 -28.18 81.64
 90.00 22 9 42 4975.91 22.23 218.01 16.67 72.00 23 32 38 4375.9 19.56 210.35
 100.00 9 16 39 2639.01 -29.88 69.97 25.08 89.04 10 0 38 2039.0 -29.69 61.17
 100.00 23 26 30 4728.16 23.75 199.24 16.12 71.29 24 45 18 4128.2 20.97 191.55
 110.00 10 35 15 2393.07 -34.18 51.32 25.11 90.36 11 15 8 1793.1 -33.75 42.11
 110.00 0 28 19 4546.86 27.80 183.87 14.51 69.25 1 44 6 3946.9 24.72 176.05

DIFFERENTIAL CORRECTIONS

TDE-3.3113 TRA 8.7408 TC3 -.5927 BAU .8675
 RDE .4751 RRA .2757 RC3 -.0045 FAU .00140
 FDE -.6728 FRA 1.8047 FC3 -.0110 BSP 17826
 BOE 3.3453 BRA 8.7451 BC3 .5927 FSP -310

MID-COURSE EXECUTION ACCURACY

SGT 5324.5 SGR 302.0 SG3 92.2
 RRT .1752 RRF .1785 RTF .9773
 SGB 5333.1 R23 .0069 R13 .9773
 SG1 5324.8 SG2 297.3 THA .57

ORBIT DETERMINATION ACCURACY

ST 2325.3 SR 264.2 SS 655.9
 CRT -.6593 CRS .6535 CST -.9999
 LSA 2422.3 MSA 198.3 SSA 9.3
 EL1 2331.8 EL2 198.1 ALF 175.68

LAUNCH DATE MAR 7 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 604.649

RL 148.46 LAL .00 LOL 166.25 VL 25.412 GAL 22.19 AZL 94.35 MCA 322.01 SMA 116.20 ECC .45690 INC 4.3457 V1 30.012
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.437 GAP 26.87 AZP 93.43 TAL 146.43 TAP 108.43 RCA 63.11 APO 169.30 V2 35.260
 RC 217.629 GL -9.00 GP -10.58 ZAL 36.55 ZAP 165.47 ETS 228.70 ZAE 131.06 ETE 189.09 ZAC 147.61 ETC 12.46 CLP 169.99

PLANETOCENTRIC CONIC

C3 129.809 VHL 11.393 DLA 8.89 RAL 130.65 RAD 6570.4 VEL 15.847 PTH 2.81 VHP 17.024 DPA 12.27 RAP 119.20 ECC 3.1363
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 57 52 2937.18 -28.24 91.85 28.46 87.79 8 46 49 2337.2 -28.25 83.19
 90.00 22 10 28 5022.91 23.19 221.12 20.17 73.27 23 34 11 4422.9 20.68 213.35
 100.00 9 23 32 2660.86 -29.84 71.59 28.52 88.18 10 7 53 2060.9 -29.78 62.79
 100.00 23 27 29 4774.46 24.72 202.34 19.66 72.64 24 47 3 4174.5 22.11 194.51
 110.00 10 41 39 2416.43 -34.18 53.15 28.63 89.28 11 21 55 1816.4 -33.90 43.91
 110.00 0 29 47 4591.65 28.84 186.94 18.13 70.80 1 46 19 3991.7 25.95 178.96

DIFFERENTIAL CORRECTIONS

TOE -3.6530 TRA 9.5370 TC3 -.4286 BAU .7438
 ROE .5034 RRA .2525 RC3 -.0016 FAU-.00054
 FDE -.7224 FRA 1.9262 FC3 .0036 BSP 17772
 BOE 3.6875 BRA 9.5404 BC3 .4286 FSP -304

MID-COURSE EXECUTION ACCURACY

SGT 5281.3 SGR 283.9 SG3 90.3
 RRT .1083 RRF .1146 RTF .9812
 SGB 5289.0 R23 .0081 R13 .9812
 SGI 5281.4 SG2 282.3 THA .33

ORBIT DETERMINATION ACCURACY

ST 2344.4 SR 256.1 SS 687.5
 CRT -.6811 CRS .6736 CST -.9999
 LSA 2449.4 MSA 187.3 SSA 8.7
 EL1 2351.0 EL2 187.0 ALF 175.72

LAUNCH DATE MAR 7 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 605.361

RL 148.46 LAL .00 LOL 166.25 VL 25.383 GAL 24.56 AZL 94.89 MCA 325.24 SMA 116.05 ECC .48710 INC 4.8934 V1 30.012
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.417 GAP 28.87 AZP 94.02 TAL 145.99 TAP 111.23 RCA 59.53 APO 172.58 V2 35.261
 RC 219.026 GL -9.10 GP -10.46 ZAL 35.77 ZAP 164.58 ETS 224.52 ZAE 130.48 ETE 188.82 ZAC 145.78 ETC 12.42 CLP 168.61

PLANETOCENTRIC CONIC

C3 155.043 VHL 12.452 DLA 8.57 RAL 131.44 RAD 6570.7 VEL 16.624 PTH 2.89 VHP 18.235 DPA 12.09 RAP 121.07 ECC 3.5516
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 3 28 2959.97 -28.17 93.52 31.62 86.96 8 52 48 2360.0 -28.29 84.85
 90.00 22 11 7 5065.90 24.00 224.01 23.40 74.50 23 35 33 4465.9 21.64 216.13
 100.00 9 28 58 2684.19 -29.78 73.33 31.71 87.27 10 13 42 2084.2 -29.84 64.52
 100.00 23 28 18 4816.92 25.55 205.22 22.92 73.94 24 48 35 4216.9 23.10 197.27
 110.00 10 46 42 2440.93 -34.14 55.06 31.91 88.15 11 27 23 1840.9 -34.02 45.82
 110.00 0 30 59 4632.94 29.73 189.83 21.49 72.29 1 48 12 4032.9 27.02 181.69

DIFFERENTIAL CORRECTIONS

TOE -4.0162 TRA10.4138 TC3 -.2828 BAU .5861
 ROE .5361 RRA .2190 RC3 .0001 FAU-.00290
 FDE -.7757 FRA 2.0638 FC3 .0162 BSP 17585
 BOE 4.0518 BRA10.4161 BC3 .2828 FSP -296

MID-COURSE EXECUTION ACCURACY

SGT 5234.0 SGR 266.9 SG3 88.6
 RRT .0270 RRF .0359 RTF .9848
 SGB 5240.8 R23 .0093 R13 .9848
 SGI 5234.0 SG2 266.8 THA .08

ORBIT DETERMINATION ACCURACY

ST 2351.4 SR 248.6 SS 722.7
 CRT -.7039 CRS .6950 CST -.9999
 LSA 2466.2 MSA 176.5 SSA 8.1
 EL1 2358.0 EL2 176.1 ALF 175.72

LAUNCH DATE MAR 7 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 11 1969

HELIOCENTRIC CONIC

DISTANCE 604.837

RL 148.46 LAL .00 LOL 166.25 VL 25.358 GAL 27.25 AZL 95.54 MCA 328.47 SMA 115.92 ECC .52143 INC 5.5381 V1 30.012
 RP 107.47 LAP 2.89 LOP 134.84 VP 36.399 GAP 31.18 AZP 94.72 TAL 145.84 TAP 114.31 RCA 55.48 APO 176.37 V2 35.260
 RC 220.396 GL -9.16 GP -10.34 ZAL 35.21 ZAP 163.51 ETS 220.46 ZAE 129.76 ETE 188.51 ZAC 144.10 ETC 12.41 CLP 167.08

PLANETOCENTRIC CONIC

C3 186.652 VHL 13.662 DLA 8.35 RAL 131.99 RAD 6571.0 VEL 17.549 PTH 2.97 VHP 19.636 DPA 11.92 RAP 122.79 ECC 4.0718
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 7 24 2984.32 -28.07 95.29 34.48 86.07 8 57 8 2384.3 -28.31 86.63
 90.00 22 11 37 5104.33 24.67 226.62 26.30 75.65 23 36 41 4504.3 22.46 218.65
 100.00 9 32 47 2708.92 -29.69 75.16 34.60 86.31 10 17 56 2108.9 -29.88 66.36
 100.00 23 28 54 4854.96 26.24 207.83 25.85 75.15 24 49 49 4255.0 23.95 199.79
 110.00 10 50 16 2466.47 -34.06 57.05 34.90 86.97 11 31 22 1866.5 -34.11 47.81
 110.00 0 31 51 4670.18 30.47 192.47 24.51 73.70 1 49 41 4070.2 27.94 184.19

DIFFERENTIAL CORRECTIONS

TOE -4.4136 TRA11.3689 TC3 -.1568 BAU .3914
 ROE .5742 RRA .1724 RC3 .0008 FAU-.00572
 FDE -.8358 FRA 2.2179 FC3 .0265 BSP 17519
 BOE 4.4508 BRA11.3702 BC3 .1568 FSP -292

MID-COURSE EXECUTION ACCURACY

SGT 5180.0 SGR 251.6 SG3 86.9
 RRT -.0725 RRF -.0615 RTF .9880
 SGB 5186.2 R23 -.0104 R13 -.9880
 SGI 5180.1 SG2 251.0 THA 179.80

ORBIT DETERMINATION ACCURACY

ST 2348.7 SR 241.8 SS 763.3
 CRT -.7290 CRS .7191 CST -.9998
 LSA 2475.9 MSA 165.6 SSA 7.5
 EL1 2355.3 EL2 165.0 ALF 175.69

LAUNCH DATE MAR 7 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 13 1969

HELIOCENTRIC CONIC

DISTANCE 602.710

RL 148.46 LAL .00 LOL 166.25 VL 25.336 GAL 30.33 AZL 96.31 MCA 331.69 SMA 115.81 ECC .56052 INC 6.3131 V1 30.012
 RP 107.48 LAP 2.99 LOP 138.09 VP 36.383 GAP 33.87 AZP 95.56 TAL 146.06 TAP 117.75 RCA 50.90 APO 180.73 V2 35.259
 RC 221.738 GL -9.19 GP -10.22 ZAL 34.91 ZAP 162.22 ETS 216.52 ZAE 128.84 ETE 188.16 ZAC 142.59 ETC 12.43 CLP 165.37

PLANETOCENTRIC CONIC

C3 226.647 VHL 15.055 DLA 8.24 RAL 132.29 RAD 6571.3 VEL 18.654 PTH 3.05 VHP 21.264 DPA 11.77 RAP 124.33 ECC 4.7300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 9 29 3010.25 -27.93 97.18 36.99 85.14 8 59 39 2410.2 -28.31 88.53
 90.00 22 11 55 5137.50 25.21 228.90 28.80 76.67 23 37 33 4537.5 23.13 220.85
 100.00 9 34 48 2735.03 -29.56 77.09 37.15 85.31 10 20 23 2135.0 -29.89 68.30
 100.00 23 29 17 4887.95 26.80 210.13 28.37 76.24 24 50 45 4287.9 24.64 201.99
 110.00 10 52 9 2493.00 -33.95 59.12 37.55 85.75 11 33 42 1893.0 -34.17 49.88
 110.00 0 32 21 4702.74 31.07 194.82 27.12 74.97 1 50 44 4102.7 28.69 186.43

DIFFERENTIAL CORRECTIONS

TOE -4.8388 TRA12.4170 TC3 -.0475 BAU .1440
 ROE .6191 RRA .1095 RC3 .0004 FAU-.00927
 FDE -.9021 FRA 2.3928 FC3 .0354 BSP 17409
 BOE 4.8783 BRA12.4175 BC3 .0475 FSP -287

MID-COURSE EXECUTION ACCURACY

SGT 5119.8 SGR 239.4 SG3 85.4
 RRT -.1901 RRF -.1777 RTF .9907
 SGB 5125.4 R23 -.0113 R13 -.9907
 SGI 5120.0 SG2 235.0 THA 179.49

ORBIT DETERMINATION ACCURACY

ST 2333.1 SR 236.0 SS 809.4
 CRT -.7553 CRS .7446 CST -.9998
 LSA 2475.9 MSA 155.0 SSA 7.0
 EL1 2339.9 EL2 154.2 ALF 175.61

LAUNCH DATE MAR 8 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 17 1969

HELIOCENTRIC CONIC

DISTANCE 203.577

RL 148.50 LAL .00 LOL 167.25 VL 29.043 GAL -13.52 AZL 90.21 HCA 92.67 SMA 140.61 ECC .24007 INC .2085 V1 30.004
 RP 108.67 LAP -.21 LOP 259.92 VP 38.713 GAP -4.58 AZP 89.99 TAL 243.33 TAP 336.00 RCA 106.85 APO 174.36 V2 34.873
 RC 68.274 GL -.79 GP 25.01 ZAL 166.30 ZAP 52.75 ETS 341.85 ZAE 152.71 ETE 55.12 ZAC 114.70 ETC 151.76 CLP -48.09

PLANETOCENTRIC CONIC

C3 55.541 VML 7.453 DLA -.36 RAL 1.17 RAD 6569.0 VEL 13.300 PTH 2.43 VHP 5.411 DPA 32.72 RAP 19.47 ECC 1.9141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 27 19 2457.47 -24.63 57.47 240.11 104.44 1 8 17 1857.5 -22.40 49.51
 90.00 12 20 5 5123.53 24.99 227.94 240.40 76.23 13 45 29 4523.5 22.85 219.92
 100.00 1 48 30 2195.62 -25.97 37.82 239.72 105.34 2 25 5 1595.6 -23.61 29.82
 100.00 13 41 36 4860.62 26.34 208.23 240.02 75.33 15 2 36 4260.6 24.07 200.16
 110.00 2 56 22 1983.18 -29.61 20.47 238.49 107.92 3 29 25 1383.2 -26.88 12.35
 110.00 14 50 13 4645.81 29.99 190.74 238.83 72.77 16 7 39 4045.8 27.34 182.55

DIFFERENTIAL CORRECTIONS

TDE -.2123 TRA -.4967 TC3 .1118 BAU .2036
 RDE -.3159 RRA .4128 RC3 .2503 FAU .08178
 FDE -.9327 FRA -1.0237 FC3 -1.2748 BSP 1205
 BDE .3806 BRA .6458 BC3 .2742 FSP -531

MID-COURSE EXECUTION ACCURACY

SGT 447.5 SGR 546.7 SG3 188.2
 RRT -.0791 RRF -.6589 RTF .1034
 SGB 706.5 R23 .0484 R13 -.6591
 SG1 550.1 SG2 443.4 THA 100.71

ORBIT DETERMINATION ACCURACY

ST 199.4 SR 261.1 SS 353.9
 CRT .5527 CRS -.7640 CST -.9522
 LSA 452.1 MSA 168.3 SSA 22.0
 EL1 293.3 EL2 147.9 ALF 58.12

LAUNCH DATE MAR 8 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 19 1969

HELIOCENTRIC CONIC

DISTANCE 210.177

RL 148.50 LAL .00 LOL 167.25 VL 29.066 GAL -13.38 AZL 90.40 HCA 95.84 SMA 140.81 ECC .23737 INC .3977 V1 30.004
 RP 108.70 LAP -.40 LOP 263.09 VP 38.721 GAP -3.89 AZP 89.96 TAL 243.68 TAP 339.52 RCA 107.38 APO 174.23 V2 34.862
 RC 70.456 GL -1.52 GP 26.35 ZAL 166.41 ZAP 57.26 ETS 344.00 ZAE 152.70 ETE 62.00 ZAC 112.77 ETC 152.22 CLP -52.88

PLANETOCENTRIC CONIC

C3 54.492 VML 7.382 DLA -1.10 RAL 1.30 RAD 6569.0 VEL 13.261 PTH 2.42 VHP 5.180 DPA 33.26 RAP 17.21 ECC 1.8968
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 33 21 2429.79 -24.14 55.59 239.62 105.27 1 13 50 1829.8 -21.81 47.69
 90.00 12 15 7 5141.81 25.28 229.20 240.49 76.80 13 40 49 4541.8 23.21 221.14
 100.00 1 54 11 2169.05 -25.48 36.00 239.21 106.18 2 30 20 1569.0 -23.02 28.07
 100.00 13 36 58 4877.78 26.63 209.42 240.12 75.90 14 58 16 4277.8 24.43 201.31
 110.00 3 1 15 1959.08 -29.09 18.78 237.93 108.79 3 33 54 1359.1 -26.25 10.75
 110.00 14 46 23 4660.51 30.28 191.78 238.98 73.33 16 4 4 4060.5 27.70 183.54

DIFFERENTIAL CORRECTIONS

TDE -.2290 TRA -.5344 TC3 .0794 BAU .2127
 RDE -.2886 RRA .4274 RC3 .2809 FAU .08782
 FDE -1.0444 FRA -1.0930 FC3 -1.3952 BSP 1325
 BDE .3684 BRA .6843 BC3 .2919 FSP -586

MID-COURSE EXECUTION ACCURACY

SGT 466.3 SGR 576.4 SG3 204.8
 RRT -.1831 RRF -.6983 RTF .2304
 SGB 741.4 R23 .0873 R13 -.7006
 SG1 592.0 SG2 446.4 THA 110.31

ORBIT DETERMINATION ACCURACY

ST 217.0 SR 245.4 SS 381.3
 CRT .5158 CRS -.7436 CST -.9495
 LSA 472.1 MSA 171.4 SSA 22.1
 EL1 286.2 EL2 159.4 ALF 51.73

LAUNCH DATE MAR 8 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC

DISTANCE 216.734

RL 148.50 LAL .00 LOL 167.25 VL 29.079 GAL -13.24 AZL 90.59 HCA 99.01 SMA 140.92 ECC .23490 INC .5889 V1 30.004
 RP 108.73 LAP -.58 LOP 266.26 VP 38.722 GAP -3.23 AZP 89.91 TAL 243.87 TAP 342.88 RCA 107.81 APO 174.02 V2 34.853
 RC 72.672 GL -2.28 GP 27.69 ZAL 166.39 ZAP 61.88 ETS 346.22 ZAE 152.43 ETE 69.31 ZAC 110.72 ETC 152.83 CLP -57.84

PLANETOCENTRIC CONIC

C3 53.507 VML 7.315 DLA -1.83 RAL 1.52 RAD 6568.9 VEL 13.224 PTH 2.42 VHP 4.987 DPA 33.72 RAP 14.77 ECC 1.8806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 37 2402.67 -23.64 53.76 239.25 106.05 1 19 40 1802.7 -21.22 45.93
 90.00 12 10 35 5159.91 25.56 230.45 240.68 77.37 13 36 34 4559.9 23.56 222.35
 100.00 2 0 7 2143.02 -24.97 34.23 238.82 106.98 2 35 50 1543.0 -22.41 26.37
 100.00 13 32 46 4894.80 26.91 210.61 240.33 76.47 14 54 21 4294.8 24.78 202.45
 110.00 3 6 24 1935.49 -28.56 17.15 237.49 109.63 3 38 40 1335.5 -25.62 9.21
 110.00 14 42 58 4675.08 30.56 192.83 239.23 73.89 16 0 53 4075.1 28.05 184.53

DIFFERENTIAL CORRECTIONS

TDE -.2506 TRA -.5776 TC3 .0404 BAU .2256
 RDE -.2588 RRA .4406 RC3 .3128 FAU .09357
 FDE -1.1582 FRA -1.1536 FC3 -1.5139 BSP 1495
 BDE .3603 BRA .7265 BC3 .3154 FSP -643

MID-COURSE EXECUTION ACCURACY

SGT 496.9 SGR 608.0 SG3 221.0
 RRT -.2961 RRF -.7339 RTF .3590
 SGB 785.3 R23 .1121 R13 -.7403
 SG1 645.6 SG2 447.0 THA 117.77

ORBIT DETERMINATION ACCURACY

ST 238.7 SR 228.1 SS 409.0
 CRT .4730 CRS -.7156 CST -.9480
 LSA 495.7 MSA 173.3 SSA 22.1
 EL1 283.5 EL2 169.2 ALF 42.25

LAUNCH DATE MAR 8 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 223.248

RL 148.50 LAL .00 LOL 167.25 VL 29.082 GAL -13.10 AZL 90.78 HCA 102.18 SMA 140.94 ECC .23261 INC .7834 V1 30.004
 RP 108.76 LAP -.77 LOP 269.43 VP 38.716 GAP -2.61 AZP 89.83 TAL 243.92 TAP 346.10 RCA 108.16 APO 173.73 V2 34.844
 RC 74.919 GL -3.06 GP 29.01 ZAL 166.26 ZAP 66.56 ETS 348.53 ZAE 151.85 ETE 76.81 ZAC 108.59 ETC 153.56 CLP -62.94

PLANETOCENTRIC CONIC

C3 52.571 VML 7.251 DLA -2.55 RAL 1.82 RAD 6568.9 VEL 13.188 PTH 2.41 VHP 4.830 DPA 34.09 RAP 12.22 ECC 1.8652
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 11 2375.86 -23.13 51.96 238.99 106.81 1 25 47 1775.9 -20.61 44.20
 90.00 12 6 24 5177.97 25.82 231.71 240.97 77.95 13 32 42 4578.0 23.90 223.57
 100.00 2 6 21 2117.30 -24.45 32.50 238.54 107.75 2 41 38 1517.3 -21.79 24.71
 100.00 13 28 56 4911.77 27.17 211.80 240.63 77.04 14 50 48 4311.8 25.12 203.60
 110.00 3 11 52 1912.20 -28.02 15.56 237.17 110.43 3 43 44 1312.2 -24.98 7.70
 110.00 14 39 54 4689.63 30.83 193.87 239.57 74.45 15 58 4 4089.6 28.39 185.52

DIFFERENTIAL CORRECTIONS

TDE -.2790 TRA -.6274 TC3 -.0063 BAU .2421
 RDE -.2279 RRA .4506 RC3 .3444 FAU .09850
 FDE -1.2654 FRA -1.1965 FC3 -1.6221 BSP 1693
 BDE .3602 BRA .7724 BC3 .3445 FSP -692

MID-COURSE EXECUTION ACCURACY

SGT 543.1 SGR 639.4 SG3 235.5
 RRT -.4082 RRF -.7643 RTF .4808
 SGB 838.9 R23 .1285 R13 -.7754
 SG1 710.4 SG2 446.3 THA 124.05

ORBIT DETERMINATION ACCURACY

ST 266.0 SR 210.0 SS 434.8
 CRT .4257 CRS -.6795 CST -.9480
 LSA 522.7 MSA 173.7 SSA 22.1
 EL1 291.0 EL2 173.7 ALF 30.35

LAUNCH DATE MAR 8 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 229.718

RL 148.50 LAL .00 LOL 167.25 VL 29.076 GAL -12.97 AZL 90.98 HCA 105.34 SMA 140.89 ECC .23046 INC .9824 V1 30.004
 RP 108.78 LAP -.95 LOP 272.59 VP 38.704 GAP -2.02 AZP 89.74 TAL 243.84 TAP 349.18 RCA 108.42 APO 173.36 V2 34.835
 RC 77.194 GL -3.88 GP 30.30 ZAL 166.00 ZAP 71.25 ETS 350.92 ZAE 150.94 ETE 84.27 ZAC 106.43 ETC 154.39 CLP -68.14

PLANETOCENTRIC CONIC

C3 51.674 VHL 7.188 DLA -3.27 RAL 2.20 RAD 6568.9 VEL 13.154 PTH 2.40 VHP 4.707 DPA 34.38 RAP 9.60 ECC 1.8504
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 5 2349.13 -22.59 50.19 238.84 107.54 1 32 14 1749.1 -19.98 42.49
 90.00 12 2 32 5196.17 26.07 232.98 241.34 78.54 13 29 8 4596.2 24.23 224.80
 100.00 2 12 54 2091.66 -23.91 30.79 238.37 108.50 2 47 46 1491.7 -21.16 23.07
 100.00 13 25 24 4928.87 27.43 213.01 241.02 77.63 14 47 33 4328.9 25.45 204.76
 110.00 3 17 38 1888.99 -27.46 13.99 236.95 111.21 3 49 7 1289.0 -24.33 6.22
 110.00 14 37 9 4704.30 31.10 194.93 240.00 75.03 15 55 33 4104.3 28.73 186.53

DIFFERENTIAL CORRECTIONS

TDE -.3131 TRA -.6815 TC3 -.0594 BAU .2630
 RDE -.1950 RRA .4578 RC3 .3760 FAU .10271
 FDE -1.3685 FRA -1.2253 FC3 -1.7207 BSP 1941
 BDE .3689 BRA .8210 BC3 .3807 FSP -741

MID-COURSE EXECUTION ACCURACY

SGT 604.6 SGR 670.8 SG3 248.4
 RRT -.5084 RRF -.7909 RTF .5842
 SGB 903.1 R23 .1390 R13 -.8068
 SG1 786.3 SG2 444.2 THA 129.22

ORBIT DETERMINATION ACCURACY

ST 298.2 SR 190.9 SS 460.4
 CRT .3664 CRS -.6301 CST -.9489
 LSA 554.0 MSA 172.9 SSA 22.0
 EL1 310.2 EL2 170.8 ALF 19.24

LAUNCH DATE MAR 8 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 236.147

RL 148.50 LAL .00 LOL 167.25 VL 29.063 GAL -12.83 AZL 91.19 HCA 108.50 SMA 140.78 ECC .22842 INC 1.1876 V1 30.004
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.687 GAP -1.46 AZP 89.62 TAL 243.62 TAP 352.13 RCA 108.62 APO 172.93 V2 34.827
 RC 79.493 GL -4.73 GP 31.53 ZAL 165.62 ZAP 75.91 ETS 353.41 ZAE 149.69 ETE 91.44 ZAC 104.27 ETC 155.31 CLP -73.40

PLANETOCENTRIC CONIC

C3 50.810 VHL 7.128 DLA -4.00 RAL 2.66 RAD 6568.9 VEL 13.121 PTH 2.40 VHP 4.617 DPA 34.60 RAP 6.98 ECC 1.8362
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 22 2322.21 -22.03 48.42 238.78 108.26 1 39 4 1722.2 -19.33 40.78
 90.00 11 58 54 5214.69 26.32 234.29 241.81 79.15 13 25 49 4614.7 24.55 226.06
 100.00 2 19 50 2065.86 -23.34 29.08 238.29 109.22 2 54 16 1465.9 -20.50 21.44
 100.00 13 22 7 4946.28 27.68 214.24 241.51 78.23 14 44 34 4346.3 25.77 205.96
 110.00 3 23 47 1865.67 -26.87 12.42 236.83 111.97 3 54 53 1265.7 -23.65 4.74
 110.00 14 34 40 4719.24 31.35 196.02 240.53 75.63 15 53 19 4119.2 29.06 187.57

DIFFERENTIAL CORRECTIONS

TDE -.3541 TRA -.7398 TC3 -.1189 BAU .2876
 RDE -.1612 RRA .4611 RC3 .4064 FAU .10587
 FDE -1.4620 FRA -1.2354 FC3 -1.8038 BSP 2225
 BDE .3890 BRA .8717 BC3 .4235 FSP -783

MID-COURSE EXECUTION ACCURACY

SGT 681.9 SGR 700.4 SG3 259.0
 RRT -.5920 RRF -.8134 RTF .6671
 SGB 977.5 R23 .1468 R13 -.8325
 SG1 872.3 SG2 441.3 THA 133.71

ORBIT DETERMINATION ACCURACY

ST 336.1 SR 171.8 SS 484.7
 CRT .2919 CRS -.5637 CST -.9506
 LSA 589.7 MSA 170.9 SSA 22.0
 EL1 341.0 EL2 162.0 ALF 11.00

LAUNCH DATE MAR 8 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 242.535

RL 148.50 LAL .00 LOL 167.25 VL 29.042 GAL -12.69 AZL 91.40 HCA 111.67 SMA 140.60 ECC .22647 INC 1.4002 V1 30.004
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.665 GAP -.93 AZP 89.48 TAL 243.29 TAP 354.96 RCA 108.75 APO 172.44 V2 34.820
 RC 81.813 GL -5.62 GP 32.70 ZAL 165.13 ZAP 80.47 ETS 356.00 ZAE 148.14 ETE 98.15 ZAC 102.16 ETC 156.26 CLP -78.66

PLANETOCENTRIC CONIC

C3 49.973 VHL 7.069 DLA -4.74 RAL 3.19 RAD 6568.8 VEL 13.089 PTH 2.39 VHP 4.559 DPA 34.76 RAP 4.40 ECC 1.8224
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 8 6 2294.85 -21.43 46.63 238.81 108.96 1 46 21 1694.8 -18.65 39.06
 90.00 11 55 28 5233.78 26.55 235.63 242.38 79.78 13 22 42 4633.8 24.87 227.37
 100.00 2 27 13 2039.64 -22.74 27.37 238.31 109.94 3 1 12 1439.6 -19.82 19.79
 100.00 13 19 2 4964.22 27.92 215.52 242.09 78.86 14 41 46 4364.2 26.10 207.19
 110.00 3 30 21 1841.99 -26.26 10.86 236.80 112.71 4 1 3 1242.0 -22.95 3.26
 110.00 14 32 24 4734.64 31.61 197.15 241.15 76.25 15 51 18 4134.6 29.40 188.64

DIFFERENTIAL CORRECTIONS

TDE -.4022 TRA -.8012 TC3 -.1843 BAU .3151
 RDE -.1279 RRA .4590 RC3 .4342 FAU .10765
 FDE -1.5387 FRA -1.2217 FC3 -1.8650 BSP 2530
 BDE .4220 BRA .9234 BC3 .4717 FSP -809

MID-COURSE EXECUTION ACCURACY

SGT 773.8 SGR 725.9 SG3 266.2
 RRT -.6577 RRF -.8317 RTF .7302
 SGB 1061.0 R23 .1538 R13 -.8527
 SG1 966.5 SG2 437.8 THA 137.78

ORBIT DETERMINATION ACCURACY

ST 380.2 SR 153.7 SS 506.0
 CRT .2810 CRS -.4782 CST -.9529
 LSA 628.9 MSA 167.8 SSA 21.9
 EL1 381.7 EL2 150.0 ALF 5.50

LAUNCH DATE MAR 8 1969

FLIGHT TIME 84.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 248.883

RL 148.50 LAL .00 LOL 167.25 VL 29.015 GAL -12.55 AZL 91.62 HCA 114.83 SMA 140.36 ECC .22460 INC 1.6224 V1 30.004
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.638 GAP -.43 AZP 89.32 TAL 242.85 TAP 357.68 RCA 108.84 APO 171.89 V2 34.813
 RC 84.153 GL -6.57 GP 33.81 ZAL 164.52 ZAP 84.90 ETS 358.66 ZAE 146.34 ETE 104.27 ZAC 100.15 ETC 157.23 CLP -83.86

PLANETOCENTRIC CONIC

C3 49.163 VHL 7.012 DLA -5.51 RAL 3.81 RAD 6568.8 VEL 13.059 PTH 2.38 VHP 4.529 DPA 34.88 RAP 1.93 ECC 1.8091
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 21 2266.74 -20.80 44.81 238.94 109.66 1 54 7 1666.7 -17.93 37.31
 90.00 11 52 8 5253.74 26.79 237.05 243.04 80.46 13 19 41 4653.7 25.19 228.74
 100.00 2 35 5 2012.73 -22.11 25.62 238.43 110.65 3 8 38 1412.7 -19.10 18.11
 100.00 13 16 4 4982.98 28.16 216.86 242.77 79.53 14 39 7 4383.0 26.43 208.49
 110.00 3 37 22 1817.74 -25.61 9.27 236.88 113.45 4 7 40 1217.7 -22.22 1.76
 110.00 14 30 17 4750.74 31.86 198.34 241.87 76.91 15 49 27 4150.7 29.73 189.77

DIFFERENTIAL CORRECTIONS

TDE -.4568 TRA -.8638 TC3 -.2542 BAU .3455
 RDE -.0935 RRA .4530 RC3 .4601 FAU .10840
 FDE -1.6056 FRA -1.1929 FC3 -1.9090 BSP 2874
 BDE .4663 BRA .9754 BC3 .5257 FSP -834

MID-COURSE EXECUTION ACCURACY

SGT 877.1 SGR 748.7 SG3 271.1
 RRT -.7085 RRF -.8476 RTF .7770
 SGB 1153.2 R23 .1603 R13 -.8691
 SG1 1068.5 SG2 433.7 THA 141.32

ORBIT DETERMINATION ACCURACY

ST 429.8 SR 136.6 SS 527.1
 CRT .0780 CRS -.3583 CST -.9555
 LSA 673.7 MSA 163.8 SSA 21.7
 EL1 429.9 EL2 136.1 ALF 1.58

LAUNCH DATE MAR 8 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 255.193

RL 148.50 LAL .00 LOL 167.25 VL 28.982 GAL -12.41 AZL 91.86 MCA 117.99 SMA 140.08 ECC .22278 INC 1.8562 V1 30.004
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.608 GAP .05 AZP 89.13 TAL 242.31 TAP .29 RCA 108.87 APO 171.29 V2 34.807
 RC 86.508 GL -7.57 GP 34.87 ZAL 163.80 ZAP 89.15 ETS 1.40 ZAE 144.36 ETE 109.75 ZAC 98.26 ETC 158.18 CLP -88.96

PLANETOCENTRIC CONIC

C3 48.380 VHL 6.956 CLA -6.31 RAL 4.50 RAD 6568.8 VEL 13.029 PTH 2.38 VHP 4.528 DPA 35.01 RAP 359.60 ECC 1.7962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 12 2237.58 -20.12 42.94 239.17 110.36 2 2 29 1637.6 -17.17 35.51
 90.00 11 48 50 5274.87 27.02 238.55 243.81 81.18 13 16 45 4674.9 25.52 230.20
 100.00 2 43 33 1984.84 -21.43 23.83 238.64 111.36 3 16 37 1384.8 -18.34 16.40
 100.00 13 13 10 5002.85 28.40 218.29 243.55 80.25 14 36 33 4402.8 26.76 209.87
 110.00 3 44 56 1792.64 -24.92 7.64 237.04 114.19 4 14 49 1192.6 -21.45 .22
 110.00 14 28 16 4767.81 32.12 199.60 242.71 77.62 15 47 44 4167.8 30.08 190.98

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5184 TRA -.9264 TC3 -.3279 BAU .3773 SGT 989.9 SGR 765.8 SG3 272.5 ST 485.4 SR 122.0 SS 545.4
 RDE -.0601 RRA .4411 RC3 .4824 FAU .10775 RRT -.7462 RRF -.8606 RTF .8110 CRT -.0745 CRS -.2037 CST -.9581
 FDE -1.6542 FRA -1.1423 FC3 -1.9282 BSP 3223 SGB 1251.5 R23 .1676 R13 -.8814 LSA 722.6 MSA 159.1 SSA 21.5
 BDE .5219 BRA 1.0261 BC3 .5833 FSP -841 SG1 1175.6 SG2 429.3 THA 144.59 EL1 485.5 EL2 121.6 ALF 178.86

LAUNCH DATE MAR 8 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 261.465

RL 148.50 LAL .00 LOL 167.25 VL 28.944 GAL -12.26 AZL 92.10 MCA 121.14 SMA 139.75 ECC .22102 INC 2.1039 V1 30.004
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.574 GAP .51 AZP 88.91 TAL 241.67 TAP 2.82 RCA 108.87 APO 170.64 V2 34.802
 RC 88.877 GL -8.65 GP 35.89 ZAL 162.95 ZAP 93.17 ETS 4.20 ZAE 142.23 ETE 114.59 ZAC 96.52 ETC 159.08 CLP -93.91

PLANETOCENTRIC CONIC

C3 47.629 VHL 6.901 CLA -7.14 RAL 5.28 RAD 6568.8 VEL 13.000 PTH 2.37 VHP 4.552 DPA 35.16 RAP 357.44 ECC 1.7838
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 46 2207.02 -19.38 41.00 239.50 111.05 2 11 33 1607.0 -16.35 33.64
 90.00 11 45 28 5297.61 27.24 240.18 244.68 81.96 13 13 46 4697.6 25.85 231.79
 100.00 2 52 41 1955.64 -20.69 21.97 238.95 112.07 3 25 17 1355.6 -17.52 14.61
 100.00 13 10 14 5024.22 28.63 219.83 244.45 81.03 14 33 58 4424.2 -27.10 211.37
 110.00 3 53 7 1766.43 -24.18 5.97 237.31 114.93 4 22 33 1166.4 -20.62 358.64
 110.00 14 26 18 4786.19 32.38 200.97 243.66 78.39 15 46 4 4186.2 30.44 192.29

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.5868 TRA -.9876 TC3 -.4039 BAU .4103 SGT 1109.5 SGR 779.3 SG3 271.5 ST 546.9 SR 110.9 SS 563.2
 RDE -.0261 RRA .4251 RC3 .5021 FAU .10610 RRT -.7746 RRF -.8721 RTF .8360 CRT -.2679 CRS .0008 CST -.9608
 FDE -1.6913 FRA -1.0791 FC3 -1.9285 BSP 3603 SGB 1355.8 R23 .1755 R13 -.8911 LSA 777.5 MSA 153.9 SSA 21.2
 BDE .5874 BRA 1.0752 BC3 .6444 FSP -845 SG1 1287.6 SG2 424.6 THA 147.49 EL1 547.7 EL2 106.6 ALF 176.77

LAUNCH DATE MAR 8 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 267.703

RL 148.50 LAL .00 LOL 167.25 VL 28.901 GAL -12.11 AZL 92.37 MCA 124.30 SMA 139.39 ECC .21930 INC 2.3687 V1 30.004
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.538 GAP .94 AZP 88.66 TAL 240.95 TAP 5.25 RCA 108.82 APO 169.96 V2 34.797
 RC 91.256 GL -9.82 GP 36.89 ZAL 161.99 ZAP 96.93 ETS 7.06 ZAE 140.03 ETE 118.81 ZAC 94.94 ETC 159.90 CLP -98.68

PLANETOCENTRIC CONIC

C3 46.916 VHL 6.850 CLA -8.04 RAL 6.15 RAD 6568.8 VEL 12.972 PTH 2.37 VHP 4.600 DPA 35.38 RAP 355.45 ECC 1.7721
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 11 2174.65 -18.58 38.97 239.94 111.76 2 21 25 1574.7 -15.46 31.68
 90.00 11 41 58 5322.43 27.47 241.96 245.69 82.83 13 10 41 4722.4 26.19 233.52
 100.00 3 2 38 1924.76 -19.89 20.03 239.38 112.79 3 34 43 1324.8 -16.63 12.75
 100.00 13 7 12 5047.56 28.87 221.53 245.48 81.89 14 31 19 4447.6 27.45 213.02
 110.00 4 2 2 1738.81 -23.38 4.23 237.69 115.68 4 31 0 1138.8 -19.73 356.99
 110.00 14 24 18 4806.27 32.64 202.48 244.75 79.25 15 44 24 4206.3 30.82 193.74

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6625 TRA -1.0462 TC3 -.4815 BAU .4439 SGT 1234.2 SGR 788.4 SG3 267.9 ST 614.6 SR 105.0 SS 580.3
 RDE .0080 RRA .4047 RC3 .5186 FAU .10344 RRT -.7959 RRF -.8823 RTF .8543 CRT -.4856 CRS .2439 CST -.9634
 FDE -1.7160 FRA -1.0037 FC3 -1.9087 BSP 3996 SGB 1464.5 R23 .1845 R13 -.8986 LSA 838.5 MSA 148.5 SSA 20.9
 BDE .6625 BRA 1.1217 BC3 .7076 FSP -841 SG1 1403.0 SG2 419.9 THA 150.10 EL1 616.8 EL2 91.4 ALF 175.15

LAUNCH DATE MAR 8 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 273.907

RL 148.50 LAL .00 LOL 167.25 VL 28.854 GAL -11.95 AZL 92.65 MCA 127.45 SMA 139.00 ECC .21763 INC 2.6540 V1 30.004
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.499 GAP 1.36 AZP 88.39 TAL 240.14 TAP 7.60 RCA 108.75 APO 169.24 V2 34.793
 RC 93.644 GL -11.08 GP 37.91 ZAL 160.89 ZAP 100.41 ETS 9.98 ZAE 137.77 ETE 122.46 ZAC 93.54 ETC 160.64 CLP -103.24

PLANETOCENTRIC CONIC

C3 46.253 VHL 6.801 CLA -9.00 RAL 7.11 RAD 6568.7 VEL 12.947 PTH 2.36 VHP 4.672 DPA 35.69 RAP 353.65 ECC 1.7612
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 56 36 2140.01 -17.69 36.81 240.51 112.48 2 32 16 1540.0 -14.49 29.60
 90.00 11 38 13 5349.93 27.68 243.94 246.85 83.80 13 7 22 4749.9 26.54 235.46
 100.00 3 13 33 1891.77 -19.01 17.97 239.92 113.52 3 45 5 1291.8 -15.66 10.78
 100.00 13 3 57 5073.41 29.10 223.42 246.66 82.85 14 28 30 4473.4 27.81 214.85
 110.00 4 11 47 1709.41 -22.50 2.40 238.18 116.44 4 40 17 1109.4 -18.77 355.25
 110.00 14 22 12 4828.53 32.91 204.16 246.00 80.21 15 42 40 4228.5 31.21 195.35

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7453 TRA -1.1003 TC3 -.5590 BAU .4767 SGT 1361.3 SGR 791.8 SG3 261.5 ST 688.5 SR 105.2 SS 594.9
 RDE .0412 RRA .3786 RC3 .5309 FAU .09969 RRT -.8108 RRF -.8908 RTF .8673 CRT -.6847 CRS .4824 CST -.9658
 FDE -1.7249 FRA -.9135 FC3 -1.8659 BSP 4373 SGB 1574.8 R23 .1952 R13 -.9038 LSA 904.5 MSA 143.0 SSA 20.4
 BDE .7465 BRA 1.1636 BC3 .7709 FSP -821 SG1 1519.1 SG2 415.3 THA 152.53 EL1 692.3 EL2 76.2 ALF 173.96

LAUNCH DATE MAR 8 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 280.079

RL 148.50 LAL .00 LOL 167.25 VL 28.804 GAL -11.79 AZL 92.96 MCA 130.61 SMA 138.57 ECC .21600 INC 2.9645 V1 30.004
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.458 GAP 1.75 AZP 88.07 TAL 239.26 TAP 9.87 RCA 108.64 APO 168.50 V2 34.789
 RC 96.038 GL -12.46 GP 38.96 ZAL 159.65 ZAP 103.58 ETS 12.96 ZAE 135.49 ETE 125.59 ZAC 92.30 ETC 161.29 CLP -107.57

PLANETOCENTRIC CONIC

C3 45.656 VHL 6.757 CLA -10.05 RAL 8.17 RAD 6568.7 VEL 12.924 PTH 2.36 VHP 4.767 DPA 36.13 RAP 352.00 ECC 1.7514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 9 15 2102.56 -16.70 34.51 241.22 113.20 2 44 17 1502.6 -13.42 27.37
 90.00 11 34 2 5380.85 27.89 246.18 248.17 84.90 13 3 43 4780.9 26.89 237.66
 100.00 3 25 37 1856.17 -18.02 15.79 240.61 114.26 3 56 33 1256.2 -14.60 8.67
 100.00 13 0 21 5102.47 29.33 225.55 248.01 83.95 14 25 24 4502.5 28.18 216.93
 110.00 4 22 34 1677.83 -21.53 .46 238.81 117.22 4 50 32 1077.8 -17.71 353.41
 110.00 14 19 54 4853.57 33.19 206.06 247.43 81.30 15 40 47 4253.6 31.63 197.18

DIFFERENTIAL CORRECTIONS

TDE -.8369 TRA-1.1495 TC3 -.6361 BAU .5096
 RDE .0761 RRA .3494 RC3 .5409 FAU .09539
 FDE -1.7283 FRA -.8201 FC3 -1.8088 BSP 4780
 BDE .8404 BRA 1.2015 BC3 .8350 FSP -802

MID-COURSE EXECUTION ACCURACY

SGT 1490.8 SGR 793.1 SG3 253.7
 RRT -.8220 RRF -.8991 RTF .8773
 SGB 1688.7 R23 .2068 R13 -.9080
 SGI 1637.9 S62 411.1 THA 154.67

ORBIT DETERMINATION ACCURACY

ST 769.7 SR 113.1 SS 610.7
 CRT -.8403 CRS .6874 CST -.9682
 LSA 979.2 MSA 137.8 SSA 19.8
 EL1 775.6 EL2 60.8 ALF 172.92

LAUNCH DATE MAR 8 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 286.220

RL 148.50 LAL .00 LOL 167.25 VL 28.750 GAL -11.62 AZL 93.31 MCA 133.76 SMA 138.13 ECC .21441 INC 3.3057 V1 30.004
 RP 108.94 LAP -2.39 LOP 301.05 VP 38.416 GAP 2.12 AZP 87.71 TAL 238.31 TAP 12.07 RCA 108.51 APO 167.74 V2 34.787
 RC 98.436 GL -13.99 GP 40.09 ZAL 158.25 ZAP 106.42 ETS 16.03 ZAE 133.18 ETE 128.26 ZAC 91.22 ETC 161.83 CLP -111.69

PLANETOCENTRIC CONIC

C3 45.144 VHL 6.719 CLA -11.21 RAL 9.35 RAD 6568.7 VEL 12.904 PTH 2.35 VHP 4.886 DPA 36.72 RAP 350.50 ECC 1.7430
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 23 22 2061.60 -15.59 32.02 242.10 113.94 2 57 44 1461.6 -12.22 24.96
 90.00 11 29 18 5416.15 28.08 248.75 249.69 86.18 12 59 34 4816.1 27.25 240.18
 100.00 3 39 5 1817.35 -16.92 13.43 241.47 115.01 4 9 22 1217.4 -13.41 6.40
 100.00 12 56 16 5135.63 29.54 227.99 249.57 85.22 14 21 52 4535.6 28.57 219.32
 110.00 4 34 34 1643.61 -20.45 358.39 239.61 118.01 5 1 57 1043.6 -16.54 351.44
 110.00 14 17 17 4882.14 33.46 208.25 249.08 82.57 15 38 39 4282.1 32.07 199.29

DIFFERENTIAL CORRECTIONS

TDE -.9376 TRA-1.1921 TC3 -.7107 BAU .5412
 RDE .1109 RRA .3152 RC3 .5469 FAU .09033
 FDE -1.7205 FRA -.7184 FC3 -1.7323 BSP 5166
 BDE .9441 BRA 1.2330 BC3 .8968 FSP -770

MID-COURSE EXECUTION ACCURACY

SGT 1620.3 SGR 790.0 SG3 243.8
 RRT -.8292 RRF -.9065 RTF .8844
 SGB 1802.6 R23 .2200 R13 -.9109
 SGI 1755.9 S62 407.4 THA 156.66

ORBIT DETERMINATION ACCURACY

ST 858.3 SR 127.2 SS 625.1
 CRT -.9322 CRS .8265 CST -.9704
 LSA 1060.9 MSA 133.2 SSA 19.0
 EL1 866.5 EL2 45.6 ALF 172.11

LAUNCH DATE MAR 8 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 292.332

RL 148.50 LAL .00 LOL 167.25 VL 28.693 GAL -11.44 AZL 93.68 MCA 136.91 SMA 137.66 ECC .21286 INC 3.6848 V1 30.004
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.371 GAP 2.48 AZP 87.31 TAL 237.30 TAP 14.20 RCA 108.36 APO 166.96 V2 34.785
 RC 100.837 GL -15.68 GP 41.34 ZAL 156.68 ZAP 108.93 ETS 19.19 ZAE 130.87 ETE 130.52 ZAC 90.28 ETC 162.27 CLP -115.59

PLANETOCENTRIC CONIC

C3 44.749 VHL 6.689 CLA -12.49 RAL 10.65 RAD 6568.7 VEL 12.889 PTH 2.35 VHP 5.030 DPA 37.49 RAP 349.09 ECC 1.7365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 39 20 2016.29 -14.32 29.30 243.19 114.69 3 12 56 1416.3 -10.87 22.32
 90.00 11 23 45 5457.04 28.23 251.73 251.45 87.66 12 54 42 4857.0 27.61 243.12
 100.00 3 54 16 1774.56 -15.67 10.87 242.53 115.78 4 23 50 1174.6 -12.08 3.92
 100.00 12 51 30 5174.01 29.73 230.83 251.37 86.71 14 17 44 4574.0 28.95 222.11
 110.00 4 48 2 1606.15 -19.24 356.16 240.60 118.82 5 14 48 1006.2 -15.24 349.32
 110.00 14 14 13 4915.17 33.72 210.79 250.99 84.05 15 36 9 4315.2 32.53 201.76

DIFFERENTIAL CORRECTIONS

TDE -1.0501 TRA-1.2275 TC3 -.7824 BAU .5722
 RDE .1481 RRA .2778 RC3 .5502 FAU .08494
 FDE -1.7101 FRA -.6174 FC3 -1.6432 BSP 5576
 BDE 1.0605 BRA 1.2585 BC3 .9565 FSP -740

MID-COURSE EXECUTION ACCURACY

SGT 1750.5 SGR 785.7 SG3 233.0
 RRT -.8340 RRF -.9138 RTF .8902
 SGB 1918.8 R23 .2338 R13 -.9133
 SGI 1875.6 S62 404.6 THA 158.42

ORBIT DETERMINATION ACCURACY

ST 956.2 SR 148.1 SS 641.1
 CRT -.9776 CRS .9117 CST -.9726
 LSA 1153.4 MSA 129.4 SSA 17.9
 EL1 967.1 EL2 30.8 ALF 171.38

LAUNCH DATE MAR 8 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 298.417

RL 148.50 LAL .00 LOL 167.25 VL 28.634 GAL -11.26 AZL 94.11 MCA 140.06 SMA 137.18 ECC .21136 INC 4.1112 V1 30.004
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.326 GAP 2.82 AZP 86.85 TAL 236.22 TAP 16.28 RCA 108.18 APO 166.17 V2 34.784
 RC 103.240 GL -17.56 GP 42.73 ZAL 154.89 ZAP 111.06 ETS 22.47 ZAE 128.52 ETE 132.43 ZAC 89.44 ETC 162.63 CLP -119.29

PLANETOCENTRIC CONIC

C3 44.513 VHL 6.672 CLA -13.93 RAL 12.11 RAD 6568.7 VEL 12.879 PTH 2.35 VHP 5.203 DPA 38.47 RAP 347.73 ECC 1.7326
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 57 36 1965.51 -12.85 26.29 244.55 115.45 3 30 22 1365.5 -9.32 19.39
 90.00 11 17 4 5505.16 28.31 255.25 253.50 89.43 12 48 49 4905.2 27.93 246.60
 100.00 4 11 35 1726.82 -14.24 8.05 243.85 116.56 4 40 22 1126.8 -10.56 1.19
 100.00 12 45 46 5219.08 29.86 234.17 253.47 88.46 14 12 46 4619.1 29.32 225.41
 110.00 5 3 19 1564.79 -17.86 353.74 241.84 119.64 5 29 24 964.8 -13.78 347.01
 110.00 14 10 32 4953.88 33.96 213.79 253.23 85.81 15 33 6 4353.9 33.00 204.68

DIFFERENTIAL CORRECTIONS

TDE -1.1768 TRA-1.2541 TC3 -.8493 BAU .6020
 RDE .1873 RRA .2361 RC3 .5497 FAU .07915
 FDE -1.6953 FRA -.5156 FC3 -1.5395 BSP 5989
 BDE 1.1917 BRA 1.2762 BC3 1.0117 FSP -706

MID-COURSE EXECUTION ACCURACY

SGT 1880.7 SGR 779.4 SG3 221.1
 RRT -.8361 RRF -.9207 RTF .8947
 SGB 2035.8 R23 .2484 R13 -.9153
 SGI 1995.5 S62 403.0 THA 160.04

ORBIT DETERMINATION ACCURACY

ST 1064.6 SR 174.0 SS 657.9
 CRT -.9941 CRS .9584 CST -.9749
 LSA 1257.0 MSA 126.7 SSA 16.6
 EL1 1078.6 EL2 18.6 ALF 170.77

LAUNCH DATE MAR 8 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 304.475

RL 148.50 LAL .00 LOL 167.25 VL 28.573 GAL -11.07 AZL 94.60 HCA 143.20 SMA 136.68 ECC .20991 INC 4.5976 V1 30.004
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.280 GAP 3.14 AZP 86.32 TAL 235.09 TAP 18.29 RCA 107.99 APO 165.37 V2 34.783
 RC 105.643 GL -19.69 GP 44.31 ZAL 152.87 ZAP 112.82 ETS 25.89 ZAE 126.12 ETE 134.04 ZAC 88.68 ETC 162.92 CLP-122.82

PLANETOCENTRIC CONIC

C3 44.496 VHL 6.671 DLA -15.55 RAL 13.74 RAD 6568.7 VEL 12.879 PTH 2.35 VHP 5.408 DPA 39.67 RAP 346.35 ECC 1.7323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 51 1907.74 -11.14 22.92 246.26 116.20 3 50 39 1307.7 -7.53 16.10
 90.00 11 8 50 5562.74 28.28 259.46 255.89 91.54 12 41 32 4962.7 28.19 250.79
 100.00 4 31 39 1672.85 -12.57 4.91 245.52 117.34 4 59 32 1072.8 -8.81 358.14
 100.00 12 38 43 5272.86 29.89 238.17 255.92 90.56 14 6 36 4672.9 29.65 229.37
 110.00 5 20 54 1518.60 -16.29 351.09 243.40 120.48 5 46 12 918.6 -12.12 344.46
 110.00 14 5 58 4999.87 34.13 217.37 255.85 87.92 15 29 18 4399.9 33.46 208.19

DIFFERENTIAL CORRECTIONS

TDE-1.3205 TRA-1.2693 TC3 -.9083 BAU .6296
 RDE .2275 RRA .1883 RC3 .5435 FAU .07290
 FDE-1.6736 FRA -.4107 FC3-1.4184 BSP 6372
 BDE 1.3400 BRA 1.2832 BC3 1.0584 FSP -662

MID-COURSE EXECUTION ACCURACY

SGT 2008.8 SGR 769.5 SG3 207.7
 RRT -.8347 RRF -.9266 RTF .8981
 SGB 2151.2 R23 .2639 R13 -.9166
 SG1 2113.1 S62 402.9 THA 161.58

ORBIT DETERMINATION ACCURACY

ST 1184.5 SR 203.0 SS 674.2
 CRT -.9963 CRS .9823 CST -.9771
 LSA 1372.2 MSA 125.3 SSA 15.0
 EL1 1201.7 EL2 17.1 ALF 170.31

LAUNCH DATE MAR 8 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 310.507

RL 148.50 LAL .00 LOL 167.25 VL 28.510 GAL -10.87 AZL 95.16 HCA 146.35 SMA 136.18 ECC .20850 INC 5.1611 V1 30.004
 RP 108.95 LAP -2.86 LOP 313.70 VP 38.233 GAP 3.45 AZP 85.70 TAL 233.90 TAP 20.25 RCA 107.78 APO 164.57 V2 34.783
 RC 108.045 GL -22.11 GP 46.14 ZAL 150.56 ZAP 114.16 ETS 29.49 ZAE 123.63 ETE 135.41 ZAC 87.95 ETC 163.15 CLP-126.20

PLANETOCENTRIC CONIC

C3 44.789 VHL 6.692 DLA -17.40 RAL 15.58 RAD 6568.7 VEL 12.890 PTH 2.35 VHP 5.655 DPA 41.12 RAP 344.88 ECC 1.7371
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 3 1840.77 -9.10 19.05 248.43 116.93 4 14 44 1240.8 -5.41 12.31
 90.00 10 58 20 5633.00 28.04 264.58 258.68 94.10 12 32 13 5033.0 28.32 255.93
 100.00 4 55 19 1610.86 -10.61 1.35 247.63 118.11 5 22 10 1010.9 -6.77 354.67
 100.00 12 29 46 5338.17 29.74 243.02 258.80 93.11 13 58 44 4738.2 29.86 234.21
 110.00 5 41 23 1466.48 -14.46 348.15 245.38 121.32 6 5 50 866.5 -10.21 341.63
 110.00 14 0 11 5055.29 34.18 221.70 258.96 90.48 15 24 26 4455.5 33.87 212.47

DIFFERENTIAL CORRECTIONS

TDE-1.4886 TRA-1.2727 TC3 -.9578 BAU .6561
 RDE .2714 RRA .1358 RC3 .5323 FAU .06652
 FDE-1.6528 FRA -.3109 FC3-1.2858 BSP 6785
 BDE 1.5131 BRA 1.2799 BC3 1.0958 FSP -621

MID-COURSE EXECUTION ACCURACY

SGT 2138.1 SGR 759.2 SG3 194.0
 RRT -.8308 RRF -.9320 RTF .9015
 SGB 2268.9 R23 .2785 R13 -.9183
 SG1 2232.5 S62 404.8 THA 162.99

ORBIT DETERMINATION ACCURACY

ST 1320.2 SR 236.2 SS 693.0
 CRT -.9925 CRS .9939 CST -.9794
 LSA 1504.4 MSA 125.4 SSA 13.3
 EL1 1340.9 EL2 28.5 ALF 169.93

LAUNCH DATE MAR 8 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 316.515

RL 148.50 LAL .00 LOL 167.25 VL 28.445 GAL -10.67 AZL 95.83 HCA 149.49 SMA 135.66 ECC .20714 INC 5.8259 V1 30.004
 RP 108.94 LAP -2.95 LOP 316.87 VP 38.186 GAP 3.75 AZP 84.98 TAL 232.66 TAP 22.15 RCA 107.56 APO 163.77 V2 34.784
 RC 110.446 GL -24.87 GP 48.26 ZAL 147.90 ZAP 115.04 ETS 33.30 ZAE 121.02 ETE 136.61 ZAC 87.20 ETC 163.38 CLP-129.48

PLANETOCENTRIC CONIC

C3 45.528 VHL 6.747 DLA -19.52 RAL 17.69 RAD 6568.7 VEL 12.919 PTH 2.35 VHP 5.955 DPA 42.83 RAP 343.19 ECC 1.7493
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 44 1761.07 -6.61 14.52 251.26 117.60 4 44 6 1161.1 -2.86 7.84
 90.00 10 44 28 5720.93 27.45 270.95 261.93 97.23 12 19 49 5120.9 28.17 262.35
 100.00 5 23 51 1538.06 -8.25 357.24 250.37 118.83 5 49 29 938.1 -4.34 350.64
 100.00 12 17 59 5419.17 29.30 249.01 262.18 96.23 13 48 18 4819.2 29.85 240.25
 110.00 6 5 43 1406.86 -12.33 344.85 247.93 122.14 6 29 10 806.9 -8.00 338.43
 110.00 13 52 40 5123.14 34.01 226.99 262.66 93.61 15 18 3 4523.1 34.14 217.75

DIFFERENTIAL CORRECTIONS

TDE-1.6868 TRA-1.2593 TC3 -.9919 BAU .6794
 RDE .3162 RRA .0747 RC3 .5120 FAU .05976
 FDE-1.6268 FRA -.2111 FC3-1.1364 BSP 7164
 BDE 1.7162 BRA 1.2615 BC3 1.1162 FSP -572

MID-COURSE EXECUTION ACCURACY

SGT 2265.1 SGR 744.4 SG3 179.1
 RRT -.8220 RRF -.9355 RTF .9046
 SGB 2384.2 R23 .2927 R13 -.9199
 SG1 2348.9 S62 408.8 THA 164.40

ORBIT DETERMINATION ACCURACY

ST 1472.8 SR 270.1 SS 711.8
 CRT -.9863 CRS .9985 CST -.9816
 LSA 1653.0 MSA 127.0 SSA 11.5
 EL1 1496.7 EL2 43.8 ALF 169.74

LAUNCH DATE MAR 8 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 322.499

RL 148.50 LAL .00 LOL 167.25 VL 28.379 GAL -10.45 AZL 96.63 HCA 152.63 SMA 135.15 ECC .20583 INC 6.6272 V1 30.004
 RP 108.94 LAP -3.04 LOP 320.03 VP 38.138 GAP 4.03 AZP 84.11 TAL 231.38 TAP 24.00 RCA 107.33 APO 162.97 V2 34.786
 RC 112.844 GL -28.04 GP 50.73 ZAL 144.83 ZAP 115.44 ETS 37.38 ZAE 118.22 ETE 137.73 ZAC 86.37 ETC 163.66 CLP-132.74

PLANETOCENTRIC CONIC

C3 46.933 VHL 6.851 DLA -21.97 RAL 20.13 RAD 6568.8 VEL 12.973 PTH 2.37 VHP 6.327 DPA 44.82 RAP 341.15 ECC 1.7724
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 53 39 1662.07 -3.46 8.95 255.03 118.12 5 21 21 1062.1 .33 2.32
 90.00 10 25 3 5835.19 26.21 279.08 265.67 101.12 12 2 18 5235.2 27.48 270.64
 100.00 5 59 25 1449.82 -5.32 352.33 254.01 119.46 6 23 34 849.8 1.35 345.78
 100.00 12 1 58 5522.67 28.30 256.52 266.11 100.07 13 34 1 4922.7 29.39 247.89
 110.00 6 35 14 1337.51 -9.79 341.09 251.28 122.92 6 57 32 737.5 -5.38 334.76
 110.00 13 42 38 5207.75 33.46 233.53 267.03 97.44 15 9 26 4607.7 34.13 224.35

DIFFERENTIAL CORRECTIONS

TDE-1.9292 TRA-1.2264 TC3-1.0070 BAU .7006
 RDE .3627 RRA .0051 RC3 .4822 FAU .05292
 FDE-1.6013 FRA -.1177 FC3 -.9762 BSP 7572
 BDE 1.9630 BRA 1.2264 BC3 1.1165 FSP -524

MID-COURSE EXECUTION ACCURACY

SGT 2393.8 SGR 727.1 SG3 163.8
 RRT -.8080 RRF -.9363 RTF .9087
 SGB 2501.8 R23 .3040 R13 -.9225
 SG1 2467.0 S62 415.7 THA 165.80

ORBIT DETERMINATION ACCURACY

ST 1647.8 SR 304.0 SS 732.7
 CRT -.9797 CRS .9992 CST -.9840
 LSA 1824.1 MSA 129.8 SSA 9.6
 EL1 1674.5 EL2 60.0 ALF 169.74

LAUNCH DATE MAR 8 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 328.457

RL 148.50 LAL .00 LOL 167.25 VL 28.312 GAL -10.23 AZL 97.62 MCA 155.76 SMA 134.63 ECC .20458 INC 7.6183 V1 30.004
 RP 108.93 LAP -3.12 LOP 323.20 VP 38.091 GAP 4.30 AZP 83.05 TAL 230.05 TAP 25.81 RCA 107.08 APO 162.17 V2 34.789
 RC 115.239 GL -31.71 GP 53.63 ZAL 141.26 ZAP 115.29 ETS 41.79 ZAE 115.15 ETE 138.89 ZAC 85.37 ETC 164.09 CLP-136.09

PLANETOCENTRIC CONIC

C3 49.373 VHL 7.027 CLA -24.78 RAL 23.01 RAD 6568.8 VEL 13.067 PTH 2.38 VHP 6.803 DPA 47.08 RAP 338.55 ECC 1.8126
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 46 56 1527.58 .88 1.44 260.32 118.30 6 12 23 927.6 4.66 354.80
 90.00 9 54 43 706.99 23.64 312.17 269.73 106.06 10 6 30 107.0 25.62 304.06
 100.00 6 46 13 1336.16 -1.48 346.07 259.01 119.86 7 8 29 736.2 2.50 339.55
 100.00 11 38 7 5661.68 26.25 266.34 270.53 104.84 13 12 29 5061.7 28.03 257.99
 110.00 7 12 11 1254.72 -6.70 336.67 255.78 123.60 7 33 6 654.7 -2.23 330.43
 110.00 13 28 38 5315.89 32.20 241.72 272.16 102.13 14 57 14 4715.9 33.54 232.74

DIFFERENTIAL CORRECTIONS

TDE-2.2329 TRA-1.1662 TC3 -.9943 BAU .7173
 RDE .4055 RRA -.0772 RC3 .4384 FAU .04589
 FDE-1.5735 FRA -.0292 FC3 -.8047 BSP 7984
 BDE 2.2694 BRA 1.1688 BC3 1.0866 FSP -475

MID-COURSE EXECUTION ACCURACY

SGT 2522.8 SGR 702.6 SG3 147.8
 RRT -.7843 RRF -.9312 RTF .9139
 SGB 2618.8 R23 .3115 R13 -.9261
 SG1 2584.0 SG2 425.5 THA 167.33

ORBIT DETERMINATION ACCURACY

ST 1848.1 SR 331.8 SS 754.4
 CRT -.9723 CRS .9972 CST -.9865
 LSA 2019.1 MSA 133.7 SSA 7.8
 EL1 1876.1 EL2 76.4 ALF 170.08

LAUNCH DATE MAR 8 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 334.391

RL 148.50 LAL .00 LOL 167.25 VL 28.245 GAL -10.00 AZL 98.88 MCA 158.88 SMA 134.10 ECC .20337 INC 8.8834 V1 30.004
 RP 108.92 LAP -3.19 LOP 326.36 VP 38.043 GAP 4.56 AZP 81.70 TAL 228.67 TAP 27.56 RCA 106.83 APO 161.38 V2 34.792
 RC 117.630 GL -35.96 GP 57.01 ZAL 137.09 ZAP 114.54 ETS 46.69 ZAE 111.73 ETE 140.31 ZAC 84.10 ETC 164.86 CLP-139.71

PLANETOCENTRIC CONIC

C3 53.502 VHL 7.314 CLA -28.00 RAL 26.47 RAD 6568.9 VEL 13.224 PTH 2.42 VHP 7.430 DPA 49.56 RAP 335.06 ECC 1.8805
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 27 15 1258.66 9.41 346.29 269.19 116.83 7 48 13 658.7 12.94 339.38
 90.00 8 42 0 1015.84 16.46 331.95 272.57 113.37 8 58 56 415.8 19.49 324.58
 100.00 7 56 47 1163.14 4.37 336.56 266.47 119.60 8 16 10 563.1 8.28 329.96
 100.00 10 55 9 5874.62 21.76 280.55 274.86 111.02 12 33 4 5274.6 24.42 272.77
 110.00 8 0 41 1150.85 -2.75 331.21 262.04 124.09 8 19 52 550.8 1.74 325.01
 110.00 13 7 44 5459.68 29.67 252.14 277.95 107.82 14 38 43 4859.7 31.81 243.59

DIFFERENTIAL CORRECTIONS

TDE-2.6255 TRA-1.0650 TC3 -.9433 BAU .7263
 RDE .4321 RRA -.1778 RC3 .3757 FAU .03863
 FDE-1.5421 FRA -.0553 FC3 -.6251 BSP 8353
 BDE 2.6608 BRA 1.0798 BC3 1.0154 FSP -418

MID-COURSE EXECUTION ACCURACY

SGT 2650.8 SGR 664.5 SG3 131.0
 RRT -.7412 RRF -.9126 RTF .9208
 SGB 2732.8 R23 .3140 R13 -.9310
 SG1 2697.4 SG2 438.4 THA 169.19

ORBIT DETERMINATION ACCURACY

ST 2076.5 SR 342.2 SS 775.7
 CRT -.9618 CRS .9917 CST -.9889
 LSA 2238.6 MSA 138.4 SSA 6.2
 EL1 2102.5 EL2 92.5 ALF 170.98

LAUNCH DATE MAR 8 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 340.295

RL 148.50 LAL .00 LOL 167.25 VL 28.176 GAL -9.77 AZL 100.56 MCA 162.00 SMA 133.58 ECC .20220 INC10.5642 V1 30.004
 RP 108.91 LAP -3.25 LOP 329.53 VP 37.996 GAP 4.80 AZP 79.94 TAL 227.25 TAP 29.25 RCA 106.57 APO 160.59 V2 34.796
 RC 120.015 GL -40.85 GP 60.98 ZAL 132.22 ZAP 113.11 ETS 52.35 ZAE 107.82 ETE 142.36 ZAC 82.43 ETC 166.34 CLP-143.99

PLANETOCENTRIC CONIC

C3 60.580 VHL 7.783 CLA -31.62 RAL 30.72 RAD 6569.1 VEL 13.488 PTH 2.47 VHP 8.294 DPA 52.18 RAP 330.26 ECC 1.9970
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.30 6 26 4 1538.36 13.45 9.12 277.85 118.89 6 51 42 938.4 17.20 2.21
 104.70 10 17 7 797.10 13.47 314.30 277.86 118.88 10 30 24 197.1 17.22 307.39
 75.30 6 26 4 1538.36 13.45 9.12 277.85 118.89 6 51 42 938.4 17.20 2.21
 104.70 10 17 7 797.10 13.47 314.30 277.86 118.88 10 30 24 197.1 17.22 307.39
 110.00 9 11 35 1001.14 2.97 323.40 271.38 124.07 9 28 16 401.1 7.42 317.14
 110.00 12 30 46 5670.36 24.43 266.28 283.70 114.68 14 5 16 5070.4 27.55 258.50

DIFFERENTIAL CORRECTIONS

TDE-3.1555 TRA -.9024 TC3 -.8451 BAU .7244
 RDE .4136 RRA -.3001 RC3 .2929 FAU .03138
 FDE-1.5126 FRA .1319 FC3 -.4484 BSP 8742
 BDE 3.1824 BRA .9510 BC3 .8945 FSP -363

MID-COURSE EXECUTION ACCURACY

SGT 2781.2 SGR 606.6 SG3 114.0
 RRT -.6548 RRF -.8585 RTF .9311
 SGB 2846.6 R23 .3070 R13 -.9386
 SG1 2810.2 SG2 453.7 THA 171.65

ORBIT DETERMINATION ACCURACY

ST 2334.9 SR 314.6 SS 798.4
 CRT -.9388 CRS .9757 CST -.9914
 LSA 2483.5 MSA 143.1 SSA 4.8
 EL1 2353.6 EL2 107.5 ALF 172.78

LAUNCH DATE MAR 8 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 346.163

RL 148.50 LAL .00 LOL 167.25 VL 28.107 GAL -9.51 AZL 102.92 MCA 165.09 SMA 133.06 ECC .20105 INC12.9187 V1 30.004
 RP 108.89 LAP -3.30 LOP 332.70 VP 37.949 GAP 5.03 AZP 77.50 TAL 225.79 TAP 30.88 RCA 106.31 APO 159.81 V2 34.800
 RC 122.394 GL -46.38 GP 65.57 ZAL 126.54 ZAP 110.94 ETS 59.47 ZAE 103.24 ETE 145.86 ZAC 80.15 ETC 169.32 CLP-149.78

PLANETOCENTRIC CONIC

C3 73.280 VHL 8.560 CLA -35.54 RAL 36.08 RAD 6569.4 VEL 13.951 PTH 2.55 VHP 9.553 DPA 54.66 RAP 323.47 ECC 2.2060
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.56 5 59 11 1732.06 13.26 24.00 286.80 123.28 6 28 3 1132.1 17.55 17.41
 112.44 11 26 45 694.29 13.28 306.23 286.81 123.28 11 38 19 94.3 17.56 299.64
 67.56 5 59 11 1732.06 13.26 24.00 286.80 123.28 6 28 3 1132.1 17.55 17.41
 112.44 11 26 45 694.29 13.28 306.23 286.81 123.28 11 38 19 94.3 17.56 299.64
 67.56 5 59 11 1732.06 13.26 24.00 286.80 123.28 6 28 3 1132.1 17.55 17.41
 112.44 11 26 45 694.29 13.28 306.23 286.81 123.28 11 38 19 94.3 17.56 299.64

DIFFERENTIAL CORRECTIONS

TDE-3.8969 TRA -.6308 TC3 -.6893 BAU .7003
 RDE .2580 RRA -.4482 RC3 .1892 FAU .02410
 FDE-1.4883 FRA .2050 FC3 -.2847 BSP 9094
 BDE 3.9054 BRA .7738 BC3 .7148 FSP -306

MID-COURSE EXECUTION ACCURACY

SGT 2909.5 SGR 520.3 SG3 96.9
 RRT -.4238 RRF -.6718 RTF .9455
 SGB 2955.6 R23 .2875 R13 -.9492
 SG1 2918.0 SG2 469.9 THA 175.55

ORBIT DETERMINATION ACCURACY

ST 2613.1 SR 205.3 SS 823.4
 CRT -.8081 CRS .8680 CST -.9939
 LSA 2743.5 MSA 147.1 SSA 3.6
 EL1 2618.4 EL2 120.7 ALF 176.36

LAUNCH DATE MAR 8 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 28.038 GAL -9.25 AZL 106.46 MCA 168.15 SMA 132.54 ECC .19989 INC16.4639 V1 30.004
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.902 GAP 5.24 AZP 73.87 TAL 224.28 TAP 32.42 RCA 106.05 APO 159.04 V2 34.805
 RC 124.766 GL -52.37 GP 70.73 ZAL 120.04 ZAP 108.00 ETS 69.85 ZAE 97.70 ETE 152.75 ZAC 76.94 ETC 175.76 CLP -159.42

PLANETOCENTRIC CONIC
 C3 98.074 VHL 9.903 CLA -39.41 RAL 42.96 RAD 6569.9 VEL 14.813 PTH 2.68 VMP 11.525 OPA 56.47 RAP 313.92 ECC 2.6140
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.36 5 54 48 1890.81 11.79 35.86 298.23 127.88 6 26 19 1290.8 16.62 29.70
 118.64 12 26 3 666.70 11.81 302.91 298.24 127.88 12 37 10 66.7 16.64 296.74
 61.36 5 54 48 1890.81 11.79 35.86 298.23 127.88 6 26 19 1290.8 16.62 29.70
 118.64 12 26 3 666.70 11.81 302.91 298.24 127.88 12 37 10 66.7 16.64 296.74
 61.36 5 54 48 1890.81 11.79 35.86 298.23 127.88 6 26 19 1290.8 16.62 29.70
 118.64 12 26 3 666.70 11.81 302.91 298.24 127.88 12 37 10 66.7 16.64 296.74

MID-COURSE EXECUTION ACCURACY
 SGT 3018.4 SGR 505.6 SG3 80.7 ST 2865.3 SR 231.9 SS 859.6
 RRT .2951 RRF .0543 RTF .9654 CRT .8257 CRS -.7751 CST -.9964
 SGB 3060.4 R23 -.2491 R13 .9634 LSA 2996.7 MSA 149.1 SSA 2.7
 SG1 3022.2 SG2 482.5 THA 2.90 EL1 2871.7 EL2 130.5 ALF 3.83

DIFFERENTIAL CORRECTIONS
 TOE-4.9518 TRA -.1509 TC3 -.4763 BAU .6327
 ROE -.3284 RRA -.5917 RC3 .0770 FAU .01693
 FDE-1.4881 FRA .2796 FC3 -.1494 BSP 9489
 BOE 4.9627 BRA .6106 BC3 .4825 FSP -255

ORBIT DETERMINATION ACCURACY
 ST 2865.3 SR 231.9 SS 859.6
 CRT .8257 CRS -.7751 CST -.9964
 LSA 2996.7 MSA 149.1 SSA 2.7
 EL1 2871.7 EL2 130.5 ALF 3.83

LAUNCH DATE MAR 8 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 27.968 GAL -8.96 AZL 112.39 MCA 171.13 SMA 132.03 ECC .19862 INC22.3899 V1 30.004
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.856 GAP 5.42 AZP 67.85 TAL 222.69 TAP 33.82 RCA 105.81 APO 158.25 V2 34.811
 RC 127.128 GL -58.08 GP 75.71 ZAL 112.81 ZAP 104.29 ETS 88.75 ZAE 90.63 ETE 168.43 ZAC 72.16 ETC 191.09 CLP 179.78

PLANETOCENTRIC CONIC
 C3 153.710 VHL 12.398 CLA -42.32 RAL 51.77 RAD 6570.7 VEL 16.584 PTH 2.88 VMP 14.935 OPA 56.45 RAP 301.12 ECC 3.5297
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.13 6 11 13 2031.62 8.54 45.19 312.26 131.61 6 45 4 1431.6 13.80 39.46
 122.87 13 19 56 703.15 8.56 303.29 312.28 131.61 13 31 39 103.2 13.81 297.55
 57.13 6 11 13 2031.62 8.54 45.19 312.26 131.61 6 45 4 1431.6 13.80 39.46
 122.87 13 19 56 703.15 8.56 303.29 312.28 131.61 13 31 39 103.2 13.81 297.55
 57.13 6 11 13 2031.62 8.54 45.19 312.26 131.61 6 45 4 1431.6 13.80 39.46
 122.87 13 19 56 703.15 8.56 303.29 312.28 131.61 13 31 39 103.2 13.81 297.55

MID-COURSE EXECUTION ACCURACY
 SGT 2922.6 SGR 1164.5 SG3 66.2 ST 2833.7 SR 1127.6 SS 928.7
 RRT .8924 RRF .8207 RTF .9882 CRT .9913 CRS -.9836 CST -.9988
 SGB 3146.1 R23 -.1928 R13 .9787 LSA 3184.5 MSA 150.7 SSA 2.0
 SG1 3107.0 SG2 494.2 THA 20.10 EL1 3046.7 EL2 138.4 ALF 21.57

DIFFERENTIAL CORRECTIONS
 TOE-6.1237 TRA .7713 TC3 -.2211 BAU .4544
 ROE-2.4320 RRA -.4874 RC3 -.0026 FAU .00929
 FDE-1.5495 FRA .3843 FC3 -.0523 BSP 9755
 BOE 6.5889 BRA .9124 BC3 .2211 FSP -208

ORBIT DETERMINATION ACCURACY
 ST 2833.7 SR 1127.6 SS 928.7
 CRT .9913 CRS -.9836 CST -.9988
 LSA 3184.5 MSA 150.7 SSA 2.0
 EL1 3046.7 EL2 138.4 ALF 21.57

LAUNCH DATE MAR 8 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 27.898 GAL -8.63 AZL 123.97 MCA 173.93 SMA 131.52 ECC .19696 INC33.9702 V1 30.004
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.811 GAP 5.54 AZP 56.18 TAL 220.97 TAP 34.91 RCA 105.62 APO 157.42 V2 34.818
 RC 129.481 GL -61.12 GP 76.03 ZAL 105.27 ZAP 100.01 ETS 125.87 ZAE 80.58 ETE 202.61 ZAC 64.21 ETC 225.31 CLP 136.01

PLANETOCENTRIC CONIC
 C3 309.799 VHL 17.601 CLA -42.02 RAL 62.22 RAD 6571.8 VEL 20.763 PTH 3.18 VMP 21.726 OPA 52.19 RAP 286.08 ECC 6.0985
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.55 6 54 41 2129.88 3.83 49.57 327.95 131.88 7 30 11 1529.9 9.14 43.96
 122.45 13 59 50 811.13 3.85 308.52 327.96 131.88 14 13 21 211.1 9.16 302.91
 57.55 6 54 41 2129.88 3.83 49.57 327.95 131.88 7 30 11 1529.9 9.14 43.96
 122.45 13 59 50 811.13 3.85 308.52 327.96 131.88 14 13 21 211.1 9.16 302.91
 57.55 6 54 41 2129.88 3.83 49.57 327.95 131.88 7 30 11 1529.9 9.14 43.96
 122.45 13 59 50 811.13 3.85 308.52 327.96 131.88 14 13 21 211.1 9.16 302.91

MID-COURSE EXECUTION ACCURACY
 SGT 1666.5 SGR 2709.3 SG3 54.9 ST 1429.7 SR 2658.5 SS 1092.9
 RRT .9227 RRF .9696 RTF .9883 CRT .9914 CRS -.9968 CST -.9987
 SGB 3180.8 R23 -.1402 R13 .9897 LSA 3205.7 MSA 173.1 SSA 1.1
 SG1 3131.9 SG2 555.7 THA 59.35 EL1 3014.1 EL2 165.1 ALF 61.84

DIFFERENTIAL CORRECTIONS
 TOE-4.3142 TRA 2.0393 TC3 -.0229 BAU .2465
 ROE-8.1534 RRA 1.1603 RC3 .0549 FAU-.00165
 FDE-1.7717 FRA .6077 FC3 .0046 BSP 9807
 BOE 9.2244 BRA 2.3463 BC3 .0595 FSP -172

ORBIT DETERMINATION ACCURACY
 ST 1429.7 SR 2658.5 SS 1092.9
 CRT .9914 CRS -.9968 CST -.9987
 LSA 3205.7 MSA 173.1 SSA 1.1
 EL1 3014.1 EL2 165.1 ALF 61.84

LAUNCH DATE MAR 8 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 27.829 GAL -8.16 AZL 151.27 MCA 176.13 SMA 131.02 ECC .19385 INC61.2652 V1 30.004
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.766 GAP 5.48 AZP 28.79 TAL 218.89 TAP 35.01 RCA 105.62 APO 156.41 V2 34.825
 RC 131.823 GL -54.35 GP 62.49 ZAL 98.51 ZAP 95.78 ETS 161.78 ZAE 63.24 ETE 234.94 ZAC 48.30 ETC 259.64 CLP 102.59

PLANETOCENTRIC CONIC
 C3 883.619 VHL 29.726 CLA -32.67 RAL 71.38 RAD 6572.9 VEL 31.700 PTH 3.48 VMP 37.168 OPA 38.22 RAP 272.52 ECC15.5421
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.99 8 52 48 1973.78 -.01 34.05 341.39 122.67 9 25 42 1373.8 4.30 27.72
 107.01 13 14 47 1136.11 .00 331.89 341.40 122.67 13 33 43 536.1 4.31 325.56
 72.99 8 52 48 1973.78 -.01 34.05 341.39 122.67 9 25 42 1373.8 4.30 27.72
 107.01 13 14 47 1136.11 .00 331.89 341.40 122.67 13 33 43 536.1 4.31 325.56
 110.00 12 16 35 1315.66 -8.98 339.91 335.58 123.12 12 38 30 715.7 -4.56 333.62
 110.00 14 50 11 842.23 8.97 315.01 347.20 123.13 15 4 13 242.2 13.27 308.55

MID-COURSE EXECUTION ACCURACY
 SGT 643.2 SGR 2926.5 SG3 48.2 ST 469.6 SR 2440.2 SS 1444.6
 RRT -.4451 RRF .9965 RTF -.3686 CRT -.9168 CRS -.9994 CST .9031
 SGB 2996.3 R23 -.1034 R13 .9946 LSA 2867.9 MSA 193.5 SSA .4
 SG1 2941.0 SG2 573.1 THA 95.81 EL1 2478.1 EL2 184.6 ALF 100.06

DIFFERENTIAL CORRECTIONS
 TOE 2.3600 TRA 1.6915 TC3 -.0401 BAU 2.1080
 RO-12.4958 RRA 5.6850 RC3 .1739 FAU-.03131
 FDE-2.2900 FRA 1.2619 FC3 .0307 BSP 9251
 BOE12.7167 BRA 5.9313 BC3 .1784 FSP -154

ORBIT DETERMINATION ACCURACY
 ST 469.6 SR 2440.2 SS 1444.6
 CRT -.9168 CRS -.9994 CST .9031
 LSA 2867.9 MSA 193.5 SSA .4
 EL1 2478.1 EL2 184.6 ALF 100.06

LAUNCH DATE MAR 8 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 378.420

RL 148.50 LAL .00 LOL 167.25 VL 27.759 GAL -8.80 AZL 21.12 MCA 183.64 SMA 130.52 ECC .70482 INC68.8808 V1 30.004
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.722 GAP 6.95 AZP 158.84 TAL 219.53 TAP 43.17 RCA 103.79 APO 157.25 V2 34.833
 RC 134.153 GL 51.09 GP -57.92 ZAL 98.21 ZAP 96.56 ETS 184.25 ZAE 63.43 ETE 112.66 ZAC 72.29 ETC 89.35 CLP 102.41

PLANETOCENTRIC CONIC

C31081.595 VHL 32.888 OLA 69.83 RAL 37.28 RAD 6573.0 VEL 34.683 PTH 3.51 VHP 41.249 DPA -81.81 RAP 253.69 ECC18.8003
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.06 15 32 22 5084.45 .61 247.02 307.52 20.17 16 57 7 4484.4 -6.90 244.67
 156.94 2 3 10 3332.29 .61 97.18 307.50 20.17 2 58 42 2732.3 -6.89 94.82
 23.06 15 32 22 5084.45 .61 247.02 307.52 20.17 16 57 7 4484.4 -6.90 244.67
 156.94 2 3 10 3332.29 .61 97.18 307.50 20.17 2 58 42 2732.3 -6.89 94.82
 23.06 15 32 22 5084.45 .61 247.02 307.52 20.17 16 57 7 4484.4 -6.90 244.67
 156.94 2 3 10 3332.29 .61 97.18 307.50 20.17 2 58 42 2732.3 -6.89 94.82

DIFFERENTIAL CORRECTIONS

TOE-2.9336 TRA 1.2665 TC3 -.0792 BAU 2.8474
 ROE-14.6797 RRA .9479 RC3 -.1803 FAU-.04107
 FDE 2.9042 FRA -.1515 FC3 .0329 BSP 9039
 BOE14.9700 BRA 1.5819 BC3 .1969 FSP -154

MID-COURSE EXECUTION ACCURACY

SGT 970.7 SGR 2859.4 SG3 48.0
 RRT .8040 RRF -.9991 RTF -.7793
 SGB 3019.6 R23 -.0932 R13 -.9956
 SG1 2968.0 SG2 556.1 THA 74.16

ORBIT DETERMINATION ACCURACY

ST 546.2 SR 2561.7 SS 1805.2
 CRT .9543 CRS .9999 CST .9510
 LSA 3176.6 MSA 163.6 SSA .8
 EL1 2614.4 EL2 159.9 ALF 78.46

LAUNCH DATE MAR 8 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 383.081

RL 148.50 LAL .00 LOL 167.25 VL 27.690 GAL -8.27 AZL 52.96 MCA 185.62 SMA 130.03 ECC .20114 INC37.0400 V1 30.004
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.679 GAP 6.82 AZP 126.91 TAL 217.38 TAP 43.00 RCA 103.87 APO 156.18 V2 34.841
 RC 136.471 GL 60.71 GP -73.16 ZAL 103.55 ZAP 101.29 ETS 212.12 ZAE 82.98 ETE 138.28 ZAC 90.94 ETC 118.31 CLP 132.51

PLANETOCENTRIC CONIC

C3 358.179 VHL 18.926 OLA 71.13 RAL 358.21 RAD 6572.0 VEL 21.897 PTH 3.23 VHP 23.645 DPA -78.01 RAP 58.83 ECC 6.8947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 21.56 12 53 18 5010.68 -4.39 246.40 266.72 18.93 14 16 49 4410.7 -11.95 244.18
 158.44 23 26 34 3250.63 -4.39 94.99 266.70 18.93 24 20 45 2650.6 -11.95 92.76
 21.56 12 53 18 5010.68 -4.39 246.40 266.72 18.93 14 16 49 4410.7 -11.95 244.18
 158.44 23 26 34 3250.63 -4.39 94.99 266.70 18.93 24 20 45 2650.6 -11.95 92.76
 21.56 12 53 18 5010.68 -4.39 246.40 266.72 18.93 14 16 49 4410.7 -11.95 244.18
 158.44 23 26 34 3250.63 -4.39 94.99 266.70 18.93 24 20 45 2650.6 -11.95 92.76

DIFFERENTIAL CORRECTIONS

TOE 2.9663 TRA -.3480 TC3 -.0163 BAU .4488
 ROE-5.4704 RRA 3.0677 RC3 -.0923 FAU-.00178
 FDE 1.3303 FRA -.5328 FC3 .0043 BSP 10726
 BOE 6.2229 BRA 3.0874 BC3 .0937 FSP -180

MID-COURSE EXECUTION ACCURACY

SGT 957.3 SGR 3333.1 SG3 55.4
 RRT -.7525 RRF -.9847 RTF .8522
 SGB 3467.9 R23 -.1290 R13 -.9907
 SG1 3412.8 SG2 615.7 THA 102.61

ORBIT DETERMINATION ACCURACY

ST 903.3 SR 1866.8 SS 877.7
 CRT -.9319 CRS .9923 CST -.9696
 LSA 2231.6 MSA 301.6 SSA 1.6
 EL1 2052.3 EL2 298.1 ALF 114.83

LAUNCH DATE MAR 8 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 388.508

RL 148.50 LAL .00 LOL 167.25 VL 27.621 GAL -7.89 AZL 66.26 MCA 188.36 SMA 129.54 ECC .19968 INC23.7358 V1 30.004
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.637 GAP 6.90 AZP 113.51 TAL 215.56 TAP 43.92 RCA 103.68 APO 155.41 V2 34.850
 RC 138.775 GL 59.35 GP -72.67 ZAL 109.36 ZAP 107.12 ETS 260.81 ZAE 94.09 ETE 185.56 ZAC 100.85 ETC 166.91 CLP 171.27

PLANETOCENTRIC CONIC

C3 163.849 VHL 12.800 OLA 65.57 RAL 351.25 RAD 6570.8 VEL 16.887 PTH 2.91 VHP 15.927 DPA -65.99 RAP 54.94 ECC 3.6965
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 28.03 12 39 43 4883.31 -10.91 239.86 256.23 24.91 14 1 6 4283.3 -18.14 236.74
 151.97 22 44 36 3161.90 -10.90 95.40 256.21 24.91 23 37 18 2561.9 -18.13 92.28
 28.03 12 39 43 4883.31 -10.91 239.86 256.23 24.91 14 1 6 4283.3 -18.14 236.74
 151.97 22 44 36 3161.90 -10.90 95.40 256.21 24.91 23 37 18 2561.9 -18.13 92.28
 28.03 12 39 43 4883.31 -10.91 239.86 256.23 24.91 14 1 6 4283.3 -18.14 236.74
 151.97 22 44 36 3161.90 -10.90 95.40 256.21 24.91 23 37 18 2561.9 -18.13 92.28

DIFFERENTIAL CORRECTIONS

TOE 3.1015 TRA -2.6372 TC3 -.1696 BAU .3778
 ROE -.5242 RRA 1.6071 RC3 .0313 FAU .01282
 FDE .8889 FRA -.5973 FC3 -.0678 BSP 11434
 BOE 3.1455 BRA 3.0883 BC3 .1725 FSP -221

MID-COURSE EXECUTION ACCURACY

SGT 3203.1 SGR 1756.7 SG3 67.3
 RRT -.9461 RRF -.9003 RTF .9913
 SGB 3653.2 R23 -.1890 R13 -.9801
 SG1 3618.3 SG2 503.7 THA 151.99

ORBIT DETERMINATION ACCURACY

ST 1631.1 SR 572.1 SS 609.2
 CRT -.8278 CRS .7683 CST -.9951
 LSA 1804.6 MSA 320.0 SSA 1.9
 EL1 1700.9 EL2 307.7 ALF 163.25

LAUNCH DATE MAR 8 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 394.153

RL 148.50 LAL .00 LOL 167.25 VL 27.552 GAL -7.56 AZL 72.85 MCA 191.34 SMA 129.07 ECC .19892 INC17.1541 V1 30.004
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.595 GAP 7.05 AZP 106.84 TAL 213.82 TAP 45.16 RCA 103.39 APO 154.74 V2 34.860
 RC 141.067 GL 55.00 GP -66.68 ZAL 114.47 ZAP 113.04 ETS 282.70 ZAE 101.71 ETE 205.59 ZAC 107.48 ETC 187.97 CLP-171.45

PLANETOCENTRIC CONIC

C3 96.721 VHL 9.835 OLA 60.36 RAL 353.66 RAD 6569.9 VEL 14.767 PTH 2.67 VHP 12.234 DPA -56.92 RAP 51.51 ECC 2.5918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.18 13 4 3 4755.81 -16.44 232.06 254.00 31.04 14 23 18 4155.8 -23.24 228.00
 145.82 22 39 31 3083.75 -16.43 94.77 253.99 31.04 23 30 54 2483.7 -23.23 90.71
 34.18 13 4 3 4755.81 -16.44 232.06 254.00 31.04 14 23 18 4155.8 -23.24 228.00
 145.82 22 39 31 3083.75 -16.43 94.77 253.99 31.04 23 30 54 2483.7 -23.23 90.71
 34.18 13 4 3 4755.81 -16.44 232.06 254.00 31.04 14 23 18 4155.8 -23.24 228.00
 145.82 22 39 31 3083.75 -16.43 94.77 253.99 31.04 23 30 54 2483.7 -23.23 90.71

DIFFERENTIAL CORRECTIONS

TOE 2.2463 TRA -2.8355 TC3 -.5029 BAU .6504
 ROE .4356 RRA .4746 RC3 -.0077 FAU .02166
 FDE .8253 FRA -.6105 FC3 -.1939 BSP 11759
 BOE 2.2882 BRA 2.8749 BC3 .5030 FSP -267

MID-COURSE EXECUTION ACCURACY

SGT 3721.0 SGR 614.2 SG3 81.7
 RRT -.6652 RRF -.4723 RTF .9689
 SGB 3771.3 R23 -.2437 R13 -.9656
 SG1 3743.7 SG2 455.8 THA 173.64

ORBIT DETERMINATION ACCURACY

ST 1648.5 SR 304.2 SS 557.2
 CRT .3272 CRS -.5354 CST -.9733
 LSA 1739.2 MSA 309.4 SSA 2.6
 EL1 1651.6 EL2 286.9 ALF 3.56

LAUNCH DATE MAR 8 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 399.874

RL 148.50 LAL .00 LOL 167.25 VL 27.484 GAL -7.23 AZL 76.69 MCA 194.40 SMA 128.60 ECC .19851 INC13.3068 V1 30.004
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.554 GAP 7.22 AZP 102.90 TAL 212.10 TAP 46.50 RCA 103.07 APO 154.12 V2 34.870
 RC 143.344 GL 50.22 GP -60.22 ZAL 118.60 ZAP 118.66 ETS 290.93 ZAE 107.51 ETE 211.43 ZAC 112.64 ETC 194.85 CLP-164.97

PLANETOCENTRIC CONIC

C3 66.684 VHL 8.166 DLA 55.87 RAL 357.68 RAD 6569.3 VEL 13.713 PTH 2.51 VHP 10.220 DPA -49.29 RAP 49.21 ECC 2.0975
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.59 13 34 18 4643.22 -20.30 224.12 253.17 36.74 14 51 42 4043.2 -26.63 219.19
 140.41 22 41 20 3026.56 -20.29 93.72 253.15 36.74 23 31 46 2426.6 -26.62 88.79
 39.59 13 34 18 4643.22 -20.30 224.12 253.17 36.74 14 51 42 4043.2 -26.63 219.19
 140.41 22 41 20 3026.56 -20.29 93.72 253.15 36.74 23 31 46 2426.6 -26.62 88.79
 39.59 13 34 18 4643.22 -20.30 224.12 253.17 36.74 14 51 42 4043.2 -26.63 219.19
 140.41 22 41 20 3026.56 -20.29 93.72 253.15 36.74 23 31 46 2426.6 -26.62 88.79

DIFFERENTIAL CORRECTIONS

TOE 1.8047 TRA-2.6729 TC3 -.8781 BAU .7863
 ROE .5448 RRA .1229 RC3 -.0823 FAU .02856
 FDE .8129 FRA -.6016 FC3 -.3708 BSP 12136
 BOE 1.8852 BRA 2.6757 BC3 .8819 FSP -319

MID-COURSE EXECUTION ACCURACY

SGT 3851.5 SGR 433.4 SG3 96.9
 RRT .0976 RRF .3780 RTF .9504
 SGB 3875.8 R23 .2855 R13 .9507
 SG1 3851.7 SG2 431.3 THA .64

ORBIT DETERMINATION ACCURACY

ST 1615.8 SR 385.1 SS 541.8
 CRT .7039 CRS -.8789 CST -.9574
 LSA 1721.0 MSA 301.4 SSA 3.5
 EL1 1639.0 EL2 269.6 ALF 9.79

LAUNCH DATE MAR 8 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 405.629

RL 148.50 LAL .00 LOL 167.25 VL 27.416 GAL -6.90 AZL 79.21 MCA 197.50 SMA 128.14 ECC .19833 INC10.7911 V1 30.004
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.515 GAP 7.40 AZP 100.30 TAL 210.39 TAP 47.89 RCA 102.72 APO 153.55 V2 34.880
 RC 145.608 GL 45.73 GP -54.27 ZAL 121.75 ZAP 123.82 ETS 294.99 ZAE 112.08 ETE 212.74 ZAC 116.96 ETC 197.22 CLP-162.38

PLANETOCENTRIC CONIC

C3 50.652 VHL 7.117 DLA 52.06 RAL 1.77 RAD 6568.9 VEL 13.115 PTH 2.39 VHP 9.022 DPA -42.65 RAP 47.84 ECC 1.8336
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.29 14 4 15 4546.48 -22.75 216.55 252.71 41.81 15 20 2 3946.5 -28.59 210.90
 135.71 22 44 3 2988.87 -22.74 92.74 252.70 41.80 23 33 52 2388.9 -28.58 87.09
 44.29 14 4 15 4546.48 -22.75 216.55 252.71 41.81 15 20 2 3946.5 -28.59 210.90
 135.71 22 44 3 2988.87 -22.74 92.74 252.70 41.80 23 33 52 2388.9 -28.58 87.09
 44.29 14 4 15 4546.48 -22.75 216.55 252.71 41.81 15 20 2 3946.5 -28.59 210.90
 135.71 22 44 3 2988.87 -22.74 92.74 252.70 41.80 23 33 52 2388.9 -28.58 87.09

DIFFERENTIAL CORRECTIONS

TOE 1.5495 TRA-2.5017 TC3-1.2697 BAU .8656
 ROE .5162 RRA .0074 RC3 -.1475 FAU .03404
 FDE .7965 FRA -.5715 FC3 -.5818 BSP 12441
 BOE 1.6332 BRA 2.5017 BC3 1.2782 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 3943.9 SGR 465.7 SG3 111.2
 RRT .4715 RRF .7224 RTF .9353
 SGB 3971.3 R23 .3136 R13 .9371
 SG1 3950.0 SG2 410.0 THA 3.22

ORBIT DETERMINATION ACCURACY

ST 1589.0 SR 415.6 SS 529.9
 CRT .7811 CRS -.9413 CST -.9460
 LSA 1700.6 MSA 294.0 SSA 4.5
 EL1 1622.7 EL2 254.1 ALF 11.84

LAUNCH DATE MAR 8 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 411.398

RL 148.50 LAL .00 LOL 167.25 VL 27.349 GAL -6.57 AZL 80.99 MCA 200.63 SMA 127.68 ECC .19832 INC 9.0148 V1 30.004
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.476 GAP 7.58 AZP 98.45 TAL 208.67 TAP 49.29 RCA 102.36 APO 153.00 V2 34.891
 RC 147.857 GL 41.69 GP -49.00 ZAL 124.01 ZAP 128.45 ETS 297.51 ZAE 115.72 ETE 212.31 ZAC 120.73 ETC 197.86 CLP-161.42

PLANETOCENTRIC CONIC

C3 40.973 VHL 6.401 DLA 48.85 RAL 5.66 RAD 6568.6 VEL 12.741 PTH 2.32 VHP 8.271 DPA -36.81 RAP 47.16 ECC 1.6743
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.37 14 32 43 4462.81 -24.20 209.60 252.55 46.17 15 47 6 3862.8 -29.60 203.39
 131.63 22 46 34 2966.09 -24.19 92.04 252.53 46.16 23 36 0 2366.1 -29.58 85.83
 48.37 14 32 43 4462.81 -24.20 209.60 252.55 46.17 15 47 6 3862.8 -29.60 203.39
 131.63 22 46 34 2966.09 -24.19 92.04 252.53 46.16 23 36 0 2366.1 -29.58 85.83
 48.37 14 32 43 4462.81 -24.20 209.60 252.55 46.17 15 47 6 3862.8 -29.60 203.39
 131.63 22 46 34 2966.09 -24.19 92.04 252.53 46.16 23 36 0 2366.1 -29.58 85.83

DIFFERENTIAL CORRECTIONS

TOE 1.3776 TRA-2.3463 TC3-1.6659 BAU .9188
 ROE .4680 RRA -.0304 RC3 -.1950 FAU .03815
 FDE .7691 FRA -.5229 FC3 -.8061 BSP 12699
 BOE 1.4550 BRA 2.3465 BC3 1.6773 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 4032.0 SGR 489.4 SG3 123.6
 RRT .5984 RRF .8222 RTF .9227
 SGB 4061.6 R23 .3304 R13 .9251
 SG1 4042.7 SG2 391.1 THA 4.19

ORBIT DETERMINATION ACCURACY

ST 1562.6 SR 419.2 SS 515.5
 CRT .8075 CRS -.9632 CST -.9361
 LSA 1673.3 MSA 288.3 SSA 5.6
 EL1 1599.7 EL2 241.5 ALF 12.51

LAUNCH DATE MAR 8 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 417.173

RL 148.50 LAL .00 LOL 167.25 VL 27.283 GAL -6.24 AZL 82.31 MCA 203.77 SMA 127.24 ECC .19848 INC 7.6887 V1 30.004
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.438 GAP 7.77 AZP 97.04 TAL 206.94 TAP 50.71 RCA 101.98 APO 152.49 V2 34.902
 RC 150.092 GL 38.10 GP -44.40 ZAL 125.49 ZAP 132.56 ETS 299.30 ZAE 118.63 ETE 211.12 ZAC 124.11 ETC 197.75 CLP-161.23

PLANETOCENTRIC CONIC

C3 34.578 VHL 5.880 DLA 46.16 RAL 9.33 RAD 6568.4 VEL 12.488 PTH 2.26 VHP 7.786 DPA -31.67 RAP 47.02 ECC 1.5691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.89 14 59 38 4389.39 -25.02 203.32 252.71 49.85 16 12 47 3789.4 -30.01 196.69
 128.11 22 48 56 2953.76 -25.01 91.66 252.70 49.85 23 38 9 2353.8 -30.00 85.03
 51.89 14 59 38 4389.39 -25.02 203.32 252.71 49.85 16 12 47 3789.4 -30.01 196.69
 128.11 22 48 56 2953.76 -25.01 91.66 252.70 49.85 23 38 9 2353.8 -30.00 85.03
 51.89 14 59 38 4389.39 -25.02 203.32 252.71 49.85 16 12 47 3789.4 -30.01 196.69
 128.11 22 48 56 2953.76 -25.01 91.66 252.70 49.85 23 38 9 2353.8 -30.00 85.03

DIFFERENTIAL CORRECTIONS

TOE 1.2478 TRA-2.2071 TC3-2.0661 BAU .9609
 ROE .4224 RRA -.0418 RC3 -.2283 FAU .04120
 FDE .7292 FRA -.4643 FC3-1.0316 BSP 13042
 BOE 1.3173 BRA 2.2075 BC3 2.0787 FSP -441

MID-COURSE EXECUTION ACCURACY

SGT 4125.8 SGR 494.9 SG3 133.9
 RRT .6539 RRF .8557 RTF .9130
 SGB 4155.4 R23 .3354 R13 .9154
 SG1 4138.6 SG2 373.3 THA 4.52

ORBIT DETERMINATION ACCURACY

ST 1533.3 SR 412.0 SS 496.4
 CRT .8190 CRS -.9741 CST -.9271
 LSA 1639.3 MSA 282.7 SSA 7.0
 EL1 1570.8 EL2 230.8 ALF 12.69

LAUNCH DATE MAR 8 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 422.946

RL 148.50 LAL .00 LOL 167.25 VL 27.217 GAL -5.89 AZL 83.34 MCA 206.92 SMA 126.80 ECC .19880 INC 6.6564 V1 30.004
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.401 GAP 7.96 AZP 95.94 TAL 205.20 TAP 52.12 RCA 101.59 APO 152.01 V2 34.914
 RC 152.312 GL 34.92 GP -40.42 ZAL 126.30 ZAP 136.20 ETS 300.69 ZAE 120.94 ETE 209.62 ZAC 127.21 ETC 197.29 CLP-161.45

PLANETOCENTRIC CONIC

C3 30.054 VHL 5.482 OLA 43.90 RAL 12.84 RAD 6568.2 VEL 12.306 PTH 2.22 VHP 7.469 DPA -27.13 RAP 47.28 ECC 1.4946
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.94 15 25 11 4324.02 -25.45 197.68 253.20 52.95 16 37 15 3724.0 -30.09 190.73
 125.06 22 51 23 2948.56 -25.44 91.57 253.19 52.94 23 40 31 2348.6 -30.07 84.61
 54.94 15 25 11 4324.02 -25.45 197.68 253.20 52.95 16 37 15 3724.0 -30.09 190.73
 125.06 22 51 23 2948.56 -25.44 91.57 253.19 52.94 23 40 31 2348.6 -30.07 84.61
 54.94 15 25 11 4324.02 -25.45 197.68 253.20 52.95 16 37 15 3724.0 -30.09 190.73
 125.06 22 51 23 2948.56 -25.44 91.57 253.19 52.94 23 40 31 2348.6 -30.07 84.61

DIFFERENTIAL CORRECTIONS

TOE 1.1284 TRA-2.0945 TC3-2.4918 BAU 1.0065
 RDE .3802 RRA -.0482 RC3 -.2572 FAU .04391
 FDE .6695 FRA -.4130 FC3-1.2649 BSP 13865
 BOE 1.1907 BRA 2.0951 BC3 2.5051 FSP -500

MID-COURSE EXECUTION ACCURACY

SGT 4252.5 SGR 492.3 SG3 143.8
 RRT .6934 RRF .8676 RTF .9088
 SGB 4280.9 R23 .3234 R13 .9110
 SG1 4266.3 SG2 353.5 THA 4.62

ORBIT DETERMINATION ACCURACY

ST 1492.7 SR 398.0 SS 467.0
 CRT .8222 CRS -.9797 CST -.9188
 LSA 1590.2 MSA 275.1 SSA 8.5
 EL1 1528.9 EL2 221.2 ALF 12.63

LAUNCH DATE MAR 8 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 428.724

RL 148.50 LAL .00 LOL 167.25 VL 27.152 GAL -5.54 AZL 84.17 MCA 210.08 SMA 126.37 ECC .19926 INC 5.8257 V1 30.004
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.364 GAP 8.15 AZP 95.05 TAL 203.45 TAP 53.53 RCA 101.19 APO 151.55 V2 34.926
 RC 154.516 GL 32.08 GP -36.97 ZAL 126.51 ZAP 139.42 ETS 301.82 ZAE 122.80 ETE 208.03 ZAC 130.10 ETC 196.70 CLP-161.90

PLANETOCENTRIC CONIC

C3 26.676 VHL 5.165 OLA 42.00 RAL 16.26 RAD 6568.1 VEL 12.168 PTH 2.18 VHP 7.263 DPA -23.11 RAP 47.88 ECC 1.4390
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.58 15 49 37 4265.22 -25.66 192.63 254.02 55.54 17 0 42 3665.2 -29.99 185.43
 122.42 22 54 15 2947.85 -25.65 91.67 254.01 55.53 23 43 23 2347.9 -29.98 84.48
 57.58 15 49 37 4265.22 -25.66 192.63 254.02 55.54 17 0 42 3665.2 -29.99 185.43
 122.42 22 54 15 2947.85 -25.65 91.67 254.01 55.53 23 43 23 2347.9 -29.98 84.48
 57.58 15 49 37 4265.22 -25.66 192.63 254.02 55.54 17 0 42 3665.2 -29.99 185.43
 122.42 22 54 15 2947.85 -25.65 91.67 254.01 55.53 23 43 23 2347.9 -29.98 84.48

DIFFERENTIAL CORRECTIONS

TOE 1.0876 TRA-1.9280 TC3-2.8398 BAU 1.0169
 RDE .3608 RRA -.0347 RC3 -.2557 FAU .04375
 FDE .6489 FRA -.3135 FC3-1.4200 BSP 13284
 BOE 1.1459 BRA 1.9283 BC3 2.8513 FSP -464

MID-COURSE EXECUTION ACCURACY

SGT 4282.9 SGR 482.3 SG3 146.8
 RRT .6811 RRF .8537 RTF .8954
 SGB 4310.0 R23 .3273 R13 .8975
 SG1 4295.6 SG2 352.1 THA 4.42

ORBIT DETERMINATION ACCURACY

ST 1486.2 SR 400.6 SS 461.1
 CRT .8348 CRS -.9874 CST -.9099
 LSA 1583.2 MSA 274.5 SSA 9.9
 EL1 1524.1 EL2 215.1 ALF 12.94

LAUNCH DATE MAR 8 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 434.493

RL 148.50 LAL .00 LOL 167.25 VL 27.087 GAL -5.18 AZL 84.86 MCA 213.25 SMA 125.95 ECC .19988 INC 5.1393 V1 30.004
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.329 GAP 8.35 AZP 94.30 TAL 201.69 TAP 54.94 RCA 100.78 APO 151.13 V2 34.938
 RC 156.704 GL 29.52 GP -33.98 ZAL 126.22 ZAP 142.26 ETS 302.73 ZAE 124.29 ETE 206.45 ZAC 132.84 ETC 196.04 CLP-162.49

PLANETOCENTRIC CONIC

C3 24.054 VHL 4.905 OLA 40.39 RAL 19.64 RAD 6568.0 VEL 12.060 PTH 2.16 VHP 7.134 DPA -19.53 RAP 48.73 ECC 1.3959
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.90 16 13 13 4211.64 -25.74 188.06 255.15 57.72 17 23 25 3611.6 -29.80 180.68
 120.10 22 57 37 2950.39 -25.72 91.94 255.14 57.71 23 46 48 2350.4 -29.78 84.57
 59.90 16 13 13 4211.64 -25.74 188.06 255.15 57.72 17 23 25 3611.6 -29.80 180.68
 120.10 22 57 37 2950.39 -25.72 91.94 255.14 57.71 23 46 48 2350.4 -29.78 84.57
 59.90 16 13 13 4211.64 -25.74 188.06 255.15 57.72 17 23 25 3611.6 -29.80 180.68
 120.10 22 57 37 2950.39 -25.72 91.94 255.14 57.71 23 46 48 2350.4 -29.78 84.57

DIFFERENTIAL CORRECTIONS

TOE 1.0197 TRA-1.8044 TC3-3.2475 BAU 1.0478
 RDE .3373 RRA -.0320 RC3 -.2655 FAU .04445
 FDE .5969 FRA -.2458 FC3-1.5999 BSP 13768
 BOE 1.0740 BRA 1.8047 BC3 3.2583 FSP -489

MID-COURSE EXECUTION ACCURACY

SGT 4384.9 SGR 474.8 SG3 151.9
 RRT .6891 RRF .8408 RTF .8915
 SGB 4410.5 R23 .3072 R13 .8934
 SG1 4397.1 SG2 343.1 THA 4.29

ORBIT DETERMINATION ACCURACY

ST 1455.2 SR 394.4 SS 436.4
 CRT .8405 CRS -.9913 CST -.9018
 LSA 1546.4 MSA 268.3 SSA 11.6
 EL1 1493.3 EL2 208.2 ALF 13.09

LAUNCH DATE MAR 8 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 440.258

RL 148.50 LAL .00 LOL 167.25 VL 27.023 GAL -4.82 AZL 85.44 MCA 216.42 SMA 125.54 ECC .20066 INC 4.5594 V1 30.004
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.294 GAP 8.55 AZP 93.67 TAL 199.92 TAP 56.34 RCA 100.35 APO 150.73 V2 34.951
 RC 158.875 GL 27.18 GP -31.38 ZAL 125.48 ZAP 144.80 ETS 303.45 ZAE 125.50 ETE 204.95 ZAC 135.47 ETC 195.39 CLP-163.16

PLANETOCENTRIC CONIC

C3 21.954 VHL 4.685 OLA 39.03 RAL 23.03 RAD 6567.9 VEL 11.972 PTH 2.13 VHP 7.061 DPA -16.33 RAP 49.79 ECC 1.3613
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.93 16 36 10 4162.70 -25.73 183.93 256.57 59.58 17 45 33 3562.7 -29.57 176.42
 118.07 23 1 44 2954.83 -25.72 92.31 256.56 59.57 23 50 59 2354.8 -29.55 84.80
 61.93 16 36 10 4162.70 -25.73 183.93 256.57 59.58 17 45 33 3562.7 -29.57 176.42
 118.07 23 1 44 2954.83 -25.72 92.31 256.56 59.57 23 50 59 2354.8 -29.55 84.80
 61.93 16 36 10 4162.70 -25.73 183.93 256.57 59.58 17 45 33 3562.7 -29.57 176.42
 118.07 23 1 44 2954.83 -25.72 92.31 256.56 59.57 23 50 59 2354.8 -29.55 84.80

DIFFERENTIAL CORRECTIONS

TOE .9727 TRA-1.6702 TC3-3.6426 BAU 1.0720
 RDE .3210 RRA -.0268 RC3 -.2687 FAU .04432
 FDE .5519 FRA -.1721 FC3-1.7477 BSP 14038
 BOE 1.0243 BRA 1.6704 BC3 3.6525 FSP -497

MID-COURSE EXECUTION ACCURACY

SGT 4469.8 SGR 468.2 SG3 154.8
 RRT .6867 RRF .8208 RTF .8871
 SGB 4494.2 R23 .2862 R13 .8887
 SG1 4481.4 SG2 339.5 THA 4.14

ORBIT DETERMINATION ACCURACY

ST 1430.8 SR 392.8 SS 415.8
 CRT .8498 CRS -.9948 CST -.8940
 LSA 1518.4 MSA 262.3 SSA 13.5
 EL1 1470.0 EL2 201.5 ALF 13.39

LAUNCH DATE MAR 8 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 446.016

RL 148.50 LAL .00 LOL 167.25 VL 26.960 GAL -4.44 AZL 85.94 MCA 219.60 SMA 125.14 ECC .20160 INC 4.0603 V1 30.004
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.261 GAP 8.75 AZP 93.13 TAL 198.14 TAP 57.74 RCA 99.91 APO 150.36 V2 34.964
 RC 161.027 GL 25.03 GP -29.12 ZAL 124.34 ZAP 147.06 ETS 304.01 ZAE 126.49 ETE 203.55 ZAC 138.03 ETC 194.76 CLP-163.88

PLANETOCENTRIC CONIC

C3 20.232 VHL 4.498 CLA 37.86 RAL 26.47 RAD 6567.8 VEL 11.900 PTH 2.11 VHP 7.028 DPA -13.46 RAP 51.03 ECC 1.3330
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.74 16 58 43 4117.62 -25.68 180.17 258.28 61.17 18 7 21 3517.6 -29.32 172.55
 116.26 23 6 38 2960.68 -25.67 92.77 258.27 61.16 23 55 58 2360.7 -29.31 85.15
 63.74 16 58 43 4117.62 -25.68 180.17 258.28 61.17 18 7 21 3517.6 -29.32 172.55
 116.26 23 6 38 2960.68 -25.67 92.77 258.27 61.16 23 55 58 2360.7 -29.31 85.15
 63.74 16 58 43 4117.62 -25.68 180.17 258.28 61.17 18 7 21 3517.6 -29.32 172.55
 116.26 23 6 38 2960.68 -25.67 92.77 258.27 61.16 23 55 58 2360.7 -29.31 85.15

DIFFERENTIAL CORRECTIONS

TOE .9344 TRA-1.5330 TC3-4.0400 BAU 1.0952
 RDE .3087 RRA -.0216 RC3 -.2706 FAU .04382
 FDE .5083 FRA -.1006 FC3-1.8752 BSP 14330
 BDE .9841 BRA 1.5331 BC3 4.0490 FSP -504

MID-COURSE EXECUTION ACCURACY

SGT 4554.5 SGR 463.8 SG3 156.7
 RRT .6813 RRF .7974 RTF .8839
 SGB 4578.0 R23 .2621 R13 .8852
 SG1 4565.5 SG2 338.7 THA 3.99

ORBIT DETERMINATION ACCURACY

ST 1406.8 SR 393.5 SS 395.4
 CRT .8611 CRS -.9971 CST -.8866
 LSA 1491.6 MSA 255.3 SSA 15.5
 EL1 1447.8 EL2 194.4 ALF 13.79

LAUNCH DATE MAR 8 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 451.768

RL 148.50 LAL .00 LOL 167.25 VL 26.897 GAL -4.05 AZL 86.38 MCA 222.78 SMA 124.74 ECC .20271 INC 3.6237 V1 30.004
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.228 GAP 8.96 AZP 92.66 TAL 196.35 TAP 59.13 RCA 99.46 APO 150.03 V2 34.977
 RC 163.161 GL 23.02 GP -27.14 ZAL 122.84 ZAP 149.10 ETS 304.41 ZAE 127.30 ETE 202.26 ZAC 140.53 ETC 194.16 CLP-164.62

PLANETOCENTRIC CONIC

C3 18.800 VHL 4.336 CLA 36.85 RAL 29.99 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 7.026 DPA -10.86 RAP 52.42 ECC 1.3094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.36 17 21 8 4075.74 -25.61 176.71 260.26 62.54 18 29 4 3475.7 -29.07 169.01
 114.64 23 12 18 2967.78 -25.59 93.30 260.25 62.53 24 1 46 2367.8 -29.06 85.60
 65.36 17 21 8 4075.74 -25.61 176.71 260.26 62.54 18 29 4 3475.7 -29.07 169.01
 114.64 23 12 18 2967.78 -25.59 93.30 260.25 62.53 24 1 46 2367.8 -29.06 85.60
 65.36 17 21 8 4075.74 -25.61 176.71 260.26 62.54 18 29 4 3475.7 -29.07 169.01
 114.64 23 12 18 2967.78 -25.59 93.30 260.25 62.53 24 1 46 2367.8 -29.06 85.60

DIFFERENTIAL CORRECTIONS

TOE .9027 TRA-1.3906 TC3-4.4361 BAU 1.1171
 RDE .2996 RRA -.0162 RC3 -.2716 FAU .04300
 FDE .4664 FRA -.0310 FC3-1.9802 BSP 14610
 BDE .9511 BRA 1.3907 BC3 4.4444 FSP -507

MID-COURSE EXECUTION ACCURACY

SGT 4636.2 SGR 461.4 SG3 157.7
 RRT .6730 RRF .7716 RTF .8814
 SGB 4659.2 R23 .2369 R13 .8826
 SG1 4646.7 SG2 340.5 THA 3.85

ORBIT DETERMINATION ACCURACY

ST 1382.3 SR 396.0 SS 375.6
 CRT .8742 CRS -.9978 CST -.8790
 LSA 1465.4 MSA 247.3 SSA 17.7
 EL1 1425.8 EL2 186.4 ALF 14.31

LAUNCH DATE MAR 8 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 457.511

RL 148.50 LAL .00 LOL 167.25 VL 26.836 GAL -3.65 AZL 86.76 MCA 225.97 SMA 124.35 ECC .20399 INC 3.2363 V1 30.004
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.196 GAP 9.17 AZP 92.25 TAL 194.55 TAP 60.52 RCA 98.99 APO 149.72 V2 34.990
 RC 165.276 GL 21.12 GP -25.40 ZAL 121.01 ZAP 150.94 ETS 304.64 ZAE 127.98 ETE 201.09 ZAC 143.00 ETC 193.60 CLP-165.38

PLANETOCENTRIC CONIC

C3 17.599 VHL 4.195 CLA 35.96 RAL 33.62 RAD 6567.7 VEL 11.789 PTH 2.08 VHP 7.048 DPA -8.51 RAP 53.94 ECC 1.2896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.85 17 43 37 4036.54 -25.50 173.50 262.52 63.75 18 50 54 3436.5 -28.81 165.73
 113.15 23 18 45 2976.12 -25.49 93.91 262.51 63.73 24 8 21 2376.1 -28.80 86.14
 66.85 17 43 37 4036.54 -25.50 173.50 262.52 63.75 18 50 54 3436.5 -28.81 165.73
 113.15 23 18 45 2976.12 -25.49 93.91 262.51 63.73 24 8 21 2376.1 -28.80 86.14
 66.85 17 43 37 4036.54 -25.50 173.50 262.52 63.75 18 50 54 3436.5 -28.81 165.73
 113.15 23 18 45 2976.12 -25.49 93.91 262.51 63.73 24 8 21 2376.1 -28.80 86.14

DIFFERENTIAL CORRECTIONS

TOE .8789 TRA-1.2393 TC3-4.8214 BAU 1.1362
 RDE .2933 RRA -.0100 RC3 -.2715 FAU .04186
 FDE .4283 FRA .0383 FC3-2.0592 BSP 14812
 BDE .9265 BRA 1.2393 BC3 4.8291 FSP -503

MID-COURSE EXECUTION ACCURACY

SGT 4709.3 SGR 461.1 SG3 157.7
 RRT .6620 RRF .7448 RTF .8791
 SGB 4731.8 R23 .2131 R13 .8801
 SG1 4719.2 SG2 344.9 THA 3.73

ORBIT DETERMINATION ACCURACY

ST 1359.8 SR 400.6 SS 357.8
 CRT .8899 CRS -.9964 CST -.8715
 LSA 1442.4 MSA 238.2 SSA 20.1
 EL1 1406.5 EL2 176.7 ALF 14.93

LAUNCH DATE MAR 8 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 463.245

RL 148.50 LAL .00 LOL 167.25 VL 26.775 GAL -3.24 AZL 87.11 MCA 229.16 SMA 123.97 ECC .20546 INC 2.8882 V1 30.004
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.164 GAP 9.38 AZP 91.89 TAL 192.75 TAP 61.90 RCA 98.50 APO 149.45 V2 35.003
 RC 167.370 GL 19.31 GP -23.86 ZAL 118.87 ZAP 152.61 ETS 304.72 ZAE 128.56 ETE 200.02 ZAC 145.44 ETC 193.08 CLP-166.15

PLANETOCENTRIC CONIC

C3 16.590 VHL 4.073 CLA 35.15 RAL 37.37 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 7.091 DPA -6.36 RAP 55.58 ECC 1.2730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.25 18 6 25 3999.43 -25.36 170.48 265.06 64.81 19 13 4 3399.4 -28.54 162.65
 111.75 23 25 52 2985.98 -25.35 94.62 265.05 64.80 24 15 38 2386.0 -28.53 86.80
 68.25 18 6 25 3999.43 -25.36 170.48 265.06 64.81 19 13 4 3399.4 -28.54 162.65
 111.75 23 25 52 2985.98 -25.35 94.62 265.05 64.80 24 15 38 2386.0 -28.53 86.80
 68.25 18 6 25 3999.43 -25.36 170.48 265.06 64.81 19 13 4 3399.4 -28.54 162.65
 111.75 23 25 52 2985.98 -25.35 94.62 265.05 64.80 24 15 38 2386.0 -28.53 86.80

DIFFERENTIAL CORRECTIONS

TOE .8537 TRA-1.0848 TC3-5.2054 BAU 1.1561
 RDE .2882 RRA -.0038 RC3 -.2728 FAU .04066
 FDE .3890 FRA .1025 FC3-2.1216 BSP 15088
 BDE .9010 BRA 1.0848 BC3 5.2126 FSP -503

MID-COURSE EXECUTION ACCURACY

SGT 4786.0 SGR 462.3 SG3 157.4
 RRT .6514 RRF .7181 RTF .8783
 SGB 4808.3 R23 .1884 R13 .8792
 SG1 4795.5 SG2 350.1 THA 3.62

ORBIT DETERMINATION ACCURACY

ST 1331.0 SR 405.4 SS 338.3
 CRT .9057 CRS -.9919 CST -.8627
 LSA 1413.6 MSA 227.5 SSA 22.9
 EL1 1381.5 EL2 165.6 ALF 15.65

LAUNCH DATE MAR 8 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 468.969

RL 148.50 LAL .00 LOL 167.25 VL 26.715 GAL -2.82 AZL 87.43 HCA 232.35 SMA 123.60 ECC .20713 INC 2.5719 V1 30.004
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.133 GAP 9.61 AZP 91.57 TAL 190.94 TAP 63.29 RCA 98.00 APO 149.21 V2 35.016
 RC 169.445 GL 17.56 GP -22.51 ZAL 116.44 ZAP 154.14 ETS 304.65 ZAE 129.05 ETE 199.06 ZAC 147.87 ETC 192.58 CLP-166.92

PLANETOCENTRIC CONIC

C3 15.748 VHL 3.968 DLA 34.39 RAL 41.26 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 7.151 DPA -4.40 RAP 57.31 ECC 1.2592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.62 18 29 51 3963.59 -25.19 167.57 267.87 65.77 19 35 54 3363.6 -28.24 159.70
 110.38 23 33 27 2998.10 -25.18 95.49 267.87 65.76 24 23 25 2398.1 -28.23 87.62
 69.62 18 29 51 3963.59 -25.19 167.57 267.87 65.77 19 35 54 3363.6 -28.24 159.70
 110.38 23 33 27 2998.10 -25.18 95.49 267.87 65.76 24 23 25 2398.1 -28.23 87.62
 69.62 18 29 51 3963.59 -25.19 167.57 267.87 65.77 19 35 54 3363.6 -28.24 159.70
 110.38 23 33 27 2998.10 -25.18 95.49 267.87 65.76 24 23 25 2398.1 -28.23 87.62

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8285 TRA -.9233 TC3-5.5760 BAU 1.1753 SGT 4860.6 SGR 465.0 SG3 156.6 ST 1297.5 SR 410.7 SS 318.9
 RDE .2844 RRA .0029 RC3 -.2746 FAU .03935 RRT .6406 RRF .6924 RTF .8784 CRT .9221 CRS -.9830 CST -.8523
 FDE .3507 FRA .1639 FC3-2.1631 BSP 15358 SGB 4882.8 R23 .1649 R13 .8792 LSA 1380.9 MSA 215.5 SSA 26.3
 BDE .8760 BRA .9233 BC3 5.5827 FSP -501 SG1 4869.8 SG2 356.4 THA 3.53 EL1 1352.4 EL2 152.5 ALF 16.49

LAUNCH DATE MAR 8 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 474.682

RL 148.50 LAL .00 LOL 167.25 VL 26.655 GAL -2.39 AZL 87.72 HCA 235.55 SMA 123.24 ECC .20900 INC 2.2814 V1 30.004
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.103 GAP 9.84 AZP 91.29 TAL 189.12 TAP 64.67 RCA 97.48 APO 149.00 V2 35.030
 RC 171.498 GL 15.86 GP -21.30 ZAL 113.75 ZAP 155.54 ETS 304.41 ZAE 129.47 ETE 198.19 ZAC 150.29 ETC 192.11 CLP-167.69

PLANETOCENTRIC CONIC

C3 15.056 VHL 3.880 DLA 33.66 RAL 45.28 RAD 6567.6 VEL 11.681 PTH 2.05 VHP 7.225 DPA -2.60 RAP 59.14 ECC 1.2478
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.99 18 54 14 3928.09 -24.96 164.69 270.96 66.65 19 59 42 3328.1 -27.90 156.80
 109.01 23 41 12 3013.37 -24.95 96.57 270.95 66.63 24 31 26 2413.4 -27.89 88.67
 70.99 18 54 14 3928.09 -24.96 164.69 270.96 66.65 19 59 42 3328.1 -27.90 156.80
 109.01 23 41 12 3013.37 -24.95 96.57 270.95 66.63 24 31 26 2413.4 -27.89 88.67
 110.00 0 36 24 2856.60 -28.78 86.05 272.63 70.70 1 24 1 2256.6 -31.14 77.64
 110.00 23 2 9 3132.87 -21.25 103.95 269.04 62.57 23 54 22 2532.9 -24.75 96.55

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .8015 TRA -.7535 TC3-5.0230 BAU 1.1935 SGT 4931.1 SGR 468.3 SG3 155.4 ST 1257.1 SR 416.0 SS 299.3
 RDE .2817 RRA .0104 RC3 -.2763 FAU .03793 RRT .6293 RRF .6676 RTF .8791 CRT .9386 CRS -.9677 CST -.8391
 FDE .3127 FRA .2233 FC3-2.1811 BSP 15613 SGB 4953.3 R23 .1433 R13 .8798 LSA 1342.1 MSA 202.3 SSA 30.3
 BDE .8495 BRA .7536 BC3 5.9295 FSP -499 SG1 4939.9 SG2 363.3 THA 3.44 EL1 1317.1 EL2 137.0 ALF 17.45

LAUNCH DATE MAR 8 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 480.382

RL 148.50 LAL .00 LOL 167.25 VL 26.597 GAL -1.94 AZL 87.99 HCA 238.74 SMA 122.88 ECC .21109 INC 2.0122 V1 30.004
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.074 GAP 10.08 AZP 91.04 TAL 187.30 TAP 66.05 RCA 96.95 APO 148.82 V2 35.043
 RC 173.532 GL 14.19 GP -20.22 ZAL 110.81 ZAP 156.84 ETS 304.01 ZAE 129.85 ETE 197.40 ZAC 152.70 ETC 191.65 CLP-168.46

PLANETOCENTRIC CONIC

C3 14.506 VHL 3.809 DLA 32.93 RAL 49.46 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 7.312 DPA -.94 RAP 61.04 ECC 1.2387
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.43 19 19 56 3891.89 -24.67 161.76 274.32 67.46 20 24 48 3291.9 -27.50 153.84
 107.57 23 48 47 3032.97 -24.66 97.94 274.31 67.44 24 39 20 2433.0 -27.49 90.03
 72.43 19 19 56 3891.89 -24.67 161.76 274.32 67.46 20 24 48 3291.9 -27.50 153.84
 107.57 23 48 47 3032.97 -24.66 97.94 274.31 67.44 24 39 20 2433.0 -27.49 90.03
 110.00 1 17 38 2771.88 -30.54 80.08 276.64 73.84 2 3 50 2171.9 -32.45 71.38
 110.00 22 54 12 3200.97 -19.05 108.02 271.40 61.07 23 47 33 2601.0 -22.76 100.84

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7706 TRA -.5752 TC3-6.2366 BAU 1.2106 SGT 4997.4 SGR 472.3 SG3 153.8 ST 1208.2 SR 421.0 SS 280.0
 RDE .2797 RRA .0189 RC3 -.2779 FAU .03645 RRT .6179 RRF .6444 RTF .8803 CRT .9547 CRS -.9430 CST -.8217
 FDE .2750 FRA .2807 FC3-2.1753 BSP 15855 SGB 5019.7 R23 .1239 R13 .8808 LSA 1295.6 MSA 188.3 SSA 35.2
 BDE .8198 BRA .5755 BC3 6.2428 FSP -495 SG1 5006.0 SG2 370.7 THA 3.36 EL1 1273.9 EL2 118.9 ALF 18.57

LAUNCH DATE MAR 8 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 486.069

RL 148.50 LAL .00 LOL 167.25 VL 26.539 GAL -1.48 AZL 88.24 HCA 241.95 SMA 122.54 ECC .21340 INC 1.7605 V1 30.004
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.045 GAP -10.32 AZP 90.83 TAL 185.48 TAP 67.43 RCA 96.39 APO 148.69 V2 35.056
 RC 175.544 GL 12.54 GP -19.26 ZAL 107.64 ZAP 158.03 ETS 303.45 ZAE 130.18 ETE 196.69 ZAC 155.11 ETC 191.21 CLP-169.23

PLANETOCENTRIC CONIC

C3 14.091 VHL 3.754 DLA 32.19 RAL 53.76 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 7.411 DPA .59 RAP 63.01 ECC 1.2319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.02 19 47 28 3853.29 -24.30 158.64 277.94 68.22 20 51 41 3253.3 -27.04 150.71
 105.98 23 55 35 3058.73 -24.29 99.75 277.93 68.20 24 46 34 2458.7 -27.03 91.83
 74.02 19 47 28 3853.29 -24.30 158.64 277.94 68.22 20 51 41 3253.3 -27.04 150.71
 105.98 23 55 35 3058.73 -24.29 99.75 277.93 68.20 24 46 34 2458.7 -27.03 91.83
 110.00 1 53 5 2707.62 -31.66 75.41 280.60 76.39 2 38 13 2107.6 -33.21 66.52
 110.00 22 53 4 3252.40 -17.33 111.01 274.33 60.07 23 47 16 2652.4 -21.18 104.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7361 TRA -.3855 TC3-6.4995 BAU 1.2255 SGT 5055.2 SGR 476.7 SG3 151.8 ST 1152.1 SR 425.9 SS 263.2
 RDE .2788 RRA .0286 RC3 -.2779 FAU .03484 RRT .6059 RRF .6231 RTF .8814 CRT .9698 CRS -.9052 CST -.8005
 FDE .2391 FRA .3377 FC3-2.1407 BSP 16027 SGB 5077.7 R23 .1082 R13 .8819 LSA 1243.4 MSA 174.3 SSA 41.1
 BDE .7872 BRA .3865 BC3 6.5055 FSP -486 SG1 5063.5 SG2 378.6 THA 3.29 EL1 1224.4 EL2 97.8 ALF 19.85

LAUNCH DATE MAR 8 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 26.482 GAL -1.01 AZL 88.48 MCA 245.15 SMA 122.19 ECC .21596 INC 1.5232 V1 30.004
 RP 108.06 LAP -1.38 LOP 52.39 VP 37.017 GAP 10.58 AZP 90.64 TAL 183.66 TAP 68.81 RCA 95.81 APO 148.58 V2 35.069
 RC 177.535 GL 10.92 GP -18.39 ZAL 104.26 ZAP 159.14 ETS 302.72 ZAE 130.48 ETE 196.05 ZAC 157.53 ETC 190.75 CLP-169.99

PLANETOCENTRIC CONIC
 C3 13.810 VHL 3.716 DLA 31.40 RAL 58.18 RAD 6567.5 VEL 11.627 PTH 2.04 VHP 7.522 DPA 1.99 RAP 65.05 ECC 1.2273
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.84 20 17 31 3809.99 -23.84 155.15 281.80 68.94 21 21 1 3210.0 -26.49 147.23
 104.16 0 4 42 3093.21 -23.83 102.17 281.80 68.93 0 56 16 2493.2 -26.48 94.25
 75.84 20 17 31 3809.99 -23.84 155.15 281.80 68.94 21 21 1 3210.0 -26.49 147.23
 104.16 0 4 42 3093.21 -23.83 102.17 281.80 68.93 0 56 16 2493.2 -26.48 94.25
 110.00 2 26 29 2652.50 -32.47 71.32 284.64 78.68 3 10 41 2052.5 -33.69 62.29
 110.00 22 54 54 3298.70 -15.74 113.66 277.63 59.26 23 49 53 2698.7 -19.70 106.77

DIFFERENTIAL CORRECTIONS
 TDE .6907 TRA -1.896 TC3-6.7159 BAU 1.2410 SGT 5115.4 SGR 480.7 SG3 149.7 ST 1080.3 SR 429.0 SS 245.4
 RDE .2779 RRA .0388 RC3 -.2778 FAU .03329 RRT .5949 RRF .6031 RTF .8838 CRT .9818 CRS -.8468 CST -.7707
 FDE .2005 FRA .3908 FC3-2.0871 BSP 16255 SGB 5137.9 R23 .0924 R13 .8842 LSA 1175.9 MSA 161.6 SSA 48.3
 BDE .7445 BRA .1935 BC3 6.7216 FSP -481 SG1 5123.4 SG2 385.8 THA 3.22 EL1 1159.9 EL2 75.8 ALF 21.40

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 8 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 26.426 GAL -.51 AZL 88.70 MCA 248.36 SMA 121.86 ECC .21878 INC 1.2977 V1 30.004
 RP 108.02 LAP -1.21 LOP 55.60 VP 36.989 GAP 10.85 AZP 90.48 TAL 181.83 TAP 70.19 RCA 95.20 APO 148.52 V2 35.083
 RC 179.506 GL 9.32 GP -17.61 ZAL 100.72 ZAP 160.17 ETS 301.81 ZAE 130.75 ETE 195.47 ZAC 159.94 ETC 190.27 CLP-170.74

PLANETOCENTRIC CONIC
 C3 13.667 VHL 3.697 DLA 30.55 RAL 62.68 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 7.645 DPA 3.29 RAP 67.15 ECC 1.2249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.03 20 51 10 3758.20 -23.28 151.02 285.90 69.64 21 53 48 3158.2 -25.84 143.11
 101.97 0 7 0 3140.45 -23.27 105.49 285.89 69.63 0 59 20 2540.4 -25.83 97.58
 78.03 20 51 10 3758.20 -23.28 151.02 285.90 69.64 21 53 48 3158.2 -25.84 143.11
 101.97 0 7 0 3140.45 -23.27 105.49 285.89 69.63 0 59 20 2540.4 -25.83 97.58
 110.00 2 58 58 2602.74 -33.08 67.56 288.82 80.83 3 42 21 2002.7 -33.99 58.44
 110.00 22 58 22 3343.90 -14.15 116.19 281.22 58.55 23 54 6 2743.9 -18.21 109.43

DIFFERENTIAL CORRECTIONS
 TDE .6324 TRA .0148 TC3-6.8695 BAU 1.2562 SGT 5173.0 SGR 483.9 SG3 147.4 ST 991.9 SR 429.9 SS 227.8
 RDE .2768 RRA .0497 RC3 -.2775 FAU .03182 RRT .5853 RRF .5838 RTF .8873 CRT .9888 CRS -.7552 CST -.7288
 FDE .1584 FRA .4410 FC3-2.0158 BSP 16486 SGB 5195.6 R23 .0759 R13 .8876 LSA 1092.5 MSA 154.2 SSA 55.5
 BDE .6903 BRA .0518 BC3 6.8751 FSP -478 SG1 5180.8 SG2 391.8 THA 3.15 EL1 1079.4 EL2 59.0 ALF 23.27

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 8 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 26.370 GAL -.00 AZL 88.92 MCA 251.57 SMA 121.53 ECC .22189 INC 1.0819 V1 30.004
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.961 GAP 11.13 AZP 90.34 TAL 180.01 TAP 71.58 RCA 94.57 APO 148.50 V2 35.095
 RC 181.455 GL 7.74 GP -16.91 ZAL 97.03 ZAP 161.13 ETS 300.72 ZAE 131.00 ETE 194.94 ZAC 162.36 ETC 189.75 CLP-171.49

PLANETOCENTRIC CONIC
 C3 13.668 VHL 3.697 DLA 29.63 RAL 67.23 RAD 6567.5 VEL 11.621 PTH 2.04 VHP 7.779 DPA 4.48 RAP 69.30 ECC 1.2249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.90 21 30 54 3689.44 -22.61 145.64 290.18 70.32 22 32 23 3089.4 -25.08 137.74
 99.10 0 3 35 3209.21 -22.60 110.35 290.18 70.31 0 57 4 2609.2 -25.07 102.45
 100.00 0 43 54 3080.27 -25.08 101.68 291.08 73.19 1 35 14 2480.3 -27.15 93.48
 100.00 23 33 15 3293.62 -20.16 115.60 289.17 67.45 24 28 9 2693.6 -23.04 107.99
 110.00 3 30 58 2556.64 -33.52 64.04 293.12 82.87 4 13 34 1956.6 -34.14 54.85
 110.00 23 2 41 3390.01 -12.50 118.74 285.05 57.92 23 59 11 2790.0 -16.65 112.09

DIFFERENTIAL CORRECTIONS
 TDE .6131 TRA .1983 TC3-7.2291 BAU 1.3221 SGT 5440.5 SGR 519.8 SG3 156.5 ST 969.4 SR 454.5 SS 274.4
 RDE .2925 RRA .0619 RC3 -.3100 FAU .03321 RRT .5994 RRF .6300 RTF .9046 CRT .9879 CRS -.8029 CST -.8306
 FDE .1992 FRA .4916 FC3-2.1034 BSP 19949 SGB 5465.2 R23 .1056 R13 .9051 LSA 1093.1 MSA 151.7 SSA 61.6
 BDE .6793 BRA .2078 BC3 7.2357 FSP -738 SG1 5449.4 SG2 415.4 THA 3.30 EL1 1068.8 EL2 64.0 ALF 24.95

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 8 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC
 RL 148.50 LAL .00 LOL 167.25 VL 26.316 GAL .53 AZL 89.13 MCA 254.78 SMA 121.22 ECC .22528 INC .8739 V1 30.004
 RP 107.94 LAP -.84 LOP 62.03 VP 36.935 GAP 11.42 AZP 90.23 TAL 178.19 TAP 72.97 RCA 93.91 APO 148.52 V2 35.108
 RC 183.384 GL 6.20 GP -16.27 ZAL 93.22 ZAP 162.01 ETS 299.46 ZAE 131.23 ETE 194.47 ZAC 164.79 ETC 189.15 CLP-172.24

PLANETOCENTRIC CONIC
 C3 13.815 VHL 3.717 DLA 28.64 RAL 71.82 RAD 6567.5 VEL 11.628 PTH 2.04 VHP 7.925 DPA 5.58 RAP 71.51 ECC 1.2274
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.53 22 26 19 3572.28 -21.83 136.71 294.66 70.99 23 25 52 2972.3 -24.22 128.83
 94.47 23 40 49 3331.06 -21.82 119.04 294.65 70.98 24 36 20 2731.1 -24.21 111.16
 100.00 1 41 26 2955.60 -27.26 93.05 296.35 77.23 2 30 42 2355.6 -28.74 84.57
 100.00 23 12 19 3422.98 -16.59 123.55 292.40 64.77 24 9 22 2823.0 -19.85 116.27
 110.00 4 2 37 2513.65 -33.83 60.72 297.56 84.81 4 44 30 1913.6 -34.18 51.49
 110.00 23 7 38 3437.70 -10.76 121.34 289.09 57.36 24 4 56 2837.7 -14.99 114.79

DIFFERENTIAL CORRECTIONS
 TDE .4931 TRA .4629 TC3-6.9222 BAU 1.2794 SGT 5264.8 SGR 490.3 SG3 142.0 ST 813.1 SR 430.4 SS 217.6
 RDE .2780 RRA .0759 RC3 -.2659 FAU .02851 RRT .5621 RRF .5530 RTF .8913 CRT .9612 CRS -.4893 CST -.6742
 FDE .0835 FRA .5463 FC3-1.7867 BSP 16785 SGB 5287.6 R23 .0592 R13 .8916 LSA 924.8 MSA 188.2 SSA 55.8
 BDE .5661 BRA .4690 BC3 6.9273 FSP -459 SG1 5272.0 SG2 405.0 THA 3.01 EL1 913.9 EL2 105.6 ALF 27.36

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 8 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 514.226

RL 148.50 LAL .00 LOL 167.25 VL 26.262 GAL 1.08 AZL 89.33 HCA 258.00 SMA 120.90 ECC .22900 INC .6719 V1 30.004
 RP 107.90 LAP -.66 LOP 65.25 VP 36.908 GAP 11.73 AZP 90.14 TAL 176.37 TAP 74.37 RCA 93.22 APO 148.59 V2 35.120
 RC 185.291 GL 4.70 GP -15.70 ZAL 89.35 ZAP 162.84 ETS 297.99 ZAE 131.44 ETE 194.03 ZAC 167.21 ETC 188.40 CLP-172.98

PLANETOCENTRIC CONIC

C3 14.124 VHL 3.758 DLA 27.57 RAL 76.37 RAD 6567.6 VEL 11.641 PTH 2.04 VHP 8.083 DPA 6.58 RAP 73.76 ECC 1.2324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 22 37 3271.06 -25.04 115.68 300.54 76.33 1 17 8 2671.1 -26.68 107.39
 90.00 22 24 47 3642.01 -16.94 139.81 297.67 66.97 23 25 29 3042.0 -19.92 132.40
 100.00 2 25 36 2874.59 -28.34 87.28 301.31 80.08 3 13 31 2274.6 -29.42 78.64
 100.00 23 4 29 3513.72 -13.88 128.92 296.19 63.26 24 3 2 2913.7 -17.36 121.86
 110.00 4 33 49 2473.37 -34.04 57.59 302.09 86.65 5 15 2 1873.4 -34.13 48.35
 110.00 23 12 46 3487.70 -8.91 124.04 293.27 56.86 24 10 53 2887.7 -13.21 117.58

DIFFERENTIAL CORRECTIONS

TDE .4008 TRA .6986 TC3-6.8320 BAU 1.2910
 RDE .2784 RRA .0895 RC3 -.2582 FAU .02702
 FDE .0417 FRA .5930 FC3-1.6561 BSP 16970
 BDE .4880 BRA .7043 BC3 6.8368 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 5309.2 SGR 491.5 SG3 139.1
 RRT .5522 RRF .5377 RTF .8955
 SGB 5331.9 R23 .0483 R13 .8957
 SG1 5316.2 SG2 409.2 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 725.9 SR 427.0 SS 219.8
 CRT .8933 CRS -.3076 CST -.6780
 LSA 836.0 MSA 237.2 SSA 49.1
 EL1 825.1 EL2 168.9 ALF 29.05

LAUNCH DATE MAR 8 1969

FLIGHT TIME 176.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 519.785

RL 148.50 LAL .00 LOL 167.25 VL 26.209 GAL 1.65 AZL 89.53 HCA 261.22 SMA 120.60 ECC .23307 INC .4746 V1 30.004
 RP 107.87 LAP -.47 LOP 68.46 VP 36.882 GAP 12.06 AZP 90.07 TAL 174.56 TAP 75.77 RCA 92.49 APO 148.70 V2 35.132
 RC 187.175 GL 3.26 GP -15.17 ZAL 85.45 ZAP 163.61 ETS 296.31 ZAE 131.64 ETE 193.64 ZAC 169.64 ETC 187.40 CLP-173.72

PLANETOCENTRIC CONIC

C3 14.607 VHL 3.822 DLA 26.44 RAL 80.86 RAD 6567.6 VEL 11.662 PTH 2.05 VHP 8.254 DPA 7.50 RAP 76.04 ECC 1.2404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 56 3167.66 -26.51 108.47 305.76 79.66 2 6 44 2567.7 -27.67 99.99
 90.00 22 9 17 3760.30 -13.66 146.94 301.40 64.95 23 11 57 3160.3 -16.92 139.79
 100.00 3 5 2 2809.47 -29.02 82.56 306.20 82.48 3 51 52 2209.5 -29.75 73.83
 100.00 23 0 51 3593.73 -11.38 133.55 300.25 62.17 24 0 45 2993.7 -15.02 126.65
 110.00 5 4 25 2435.95 -34.15 54.67 306.69 88.38 5 45 1 1835.9 -34.00 45.43
 110.00 23 17 58 3540.02 -6.95 126.82 297.58 56.45 24 16 58 2940.0 -11.32 120.45

DIFFERENTIAL CORRECTIONS

TDE .3001 TRA .9509 TC3-6.6474 BAU 1.2991
 RDE .2799 RRA .1045 RC3 -.2463 FAU .02541
 FDE .0023 FRA .6428 FC3-1.5059 BSP 17045
 BDE .4103 BRA .9567 BC3 6.6520 FSP -441

MID-COURSE EXECUTION ACCURACY

SGT 5343.8 SGR 492.0 SG3 136.2
 RRT .5416 RRF .5243 RTF .8982
 SGB 5366.4 R23 .0415 R13 .8984
 SG1 5350.5 SG2 413.1 THA 2.87

ORBIT DETERMINATION ACCURACY

ST 673.6 SR 422.9 SS 231.6
 CRT .7537 CRS -.1352 CST -.7360
 LSA 769.8 MSA 303.0 SSA 41.9
 EL1 755.8 EL2 247.7 ALF 28.68

LAUNCH DATE MAR 8 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 525.312

RL 148.50 LAL .00 LOL 167.25 VL 26.157 GAL 2.25 AZL 89.72 HCA 264.44 SMA 120.30 ECC .23752 INC .2803 V1 30.004
 RP 107.83 LAP -.28 LOP 71.68 VP 36.856 GAP 12.41 AZP 90.03 TAL 172.75 TAP 77.19 RCA 91.72 APO 148.87 V2 35.144
 RC 189.037 GL 1.88 GP -14.70 ZAL 81.56 ZAP 164.32 ETS 294.42 ZAE 131.82 ETE 193.27 ZAC 172.06 ETC 185.89 CLP-174.46

PLANETOCENTRIC CONIC

C3 15.281 VHL 3.909 DLA 25.25 RAL 85.25 RAD 6567.6 VEL 11.690 PTH 2.06 VHP 8.438 DPA 8.34 RAP 78.37 ECC 1.2515
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 56 26 3093.01 -27.31 103.15 310.79 82.20 2 47 59 2493.0 -28.11 94.57
 90.00 22 1 45 3855.11 -10.86 152.50 305.47 63.69 23 6 0 3255.1 -14.31 145.52
 100.00 3 41 31 2754.25 -29.44 78.51 311.07 84.57 4 27 25 2154.2 -29.88 69.73
 100.00 22 59 21 3669.11 -8.95 137.83 304.46 61.36 24 0 30 3069.1 -12.71 131.05
 110.00 5 34 14 2401.61 -34.18 51.99 311.33 89.96 6 14 15 1801.6 -33.81 42.77
 110.00 23 23 8 3594.51 -4.89 129.70 301.98 56.13 24 23 2 2994.5 -9.31 123.39

DIFFERENTIAL CORRECTIONS

TDE .1830 TRA 1.2114 TC3-6.3974 BAU 1.3079
 RDE .2816 RRA .1199 RC3 -.2332 FAU .02393
 FDE -.0385 FRA .6902 FC3-1.3555 BSP 17211
 BDE .3359 BRA 1.2173 BC3 6.4017 FSP -435

MID-COURSE EXECUTION ACCURACY

SGT 5379.9 SGR 491.3 SG3 133.2
 RRT .5312 RRF .5112 RTF .9019
 SGB 5402.2 R23 .0345 R13 .9020
 SG1 5386.2 SG2 415.7 THA 2.79

ORBIT DETERMINATION ACCURACY

ST 664.3 SR 416.9 SS 249.2
 CRT .5267 CRS .0250 CST -.8248
 LSA 733.7 MSA 371.0 SSA 35.8
 EL1 711.0 EL2 331.1 ALF 23.74

LAUNCH DATE MAR 8 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 530.802

RL 148.50 LAL .00 LOL 167.25 VL 26.105 GAL 2.87 AZL 89.91 HCA 267.66 SMA 120.00 ECC .24238 INC .0882 V1 30.004
 RP 107.79 LAP -.09 LOP 74.91 VP 36.830 GAP 12.78 AZP 90.00 TAL 170.95 TAP 78.61 RCA 90.92 APO 149.09 V2 35.155
 RC 190.875 GL .57 GP -14.26 ZAL 77.72 ZAP 164.97 ETS 292.31 ZAE 131.99 ETE 192.94 ZAC 174.48 ETC 183.19 CLP-175.20

PLANETOCENTRIC CONIC

C3 16.166 VHL 4.021 DLA 24.02 RAL 89.49 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 8.638 DPA 9.10 RAP 80.72 ECC 1.2661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 28 3032.87 -27.79 98.82 315.73 84.33 3 25 1 2432.9 -28.28 90.18
 90.00 21 57 35 3940.74 -8.23 157.42 309.70 62.81 23 3 16 3340.7 -11.81 150.57
 100.00 4 15 38 2706.68 -29.69 74.99 315.91 86.40 5 0 45 2106.7 -29.88 66.19
 100.00 22 59 6 3742.16 -6.55 141.91 308.79 60.77 24 1 28 3142.2 -10.39 135.24
 110.00 6 3 2 2370.67 -34.16 49.57 316.01 91.39 6 42 33 1770.7 -33.59 40.38
 110.00 23 28 11 3650.93 -2.75 132.65 306.44 55.91 24 29 2 3050.9 -7.20 126.40

DIFFERENTIAL CORRECTIONS

TDE .0536 TRA 1.4840 TC3-6.0823 BAU 1.3154
 RDE .2839 RRA .1357 RC3 -.2181 FAU .02250
 FDE -.0797 FRA .7370 FC3-1.2049 BSP 17380
 BDE .2889 BRA 1.4902 BC3 6.0862 FSP -429

MID-COURSE EXECUTION ACCURACY

SGT 5411.9 SGR 489.1 SG3 130.3
 RRT .5209 RRF .4981 RTF .9059
 SGB 5434.0 R23 .0274 R13 .9060
 SG1 5417.9 SG2 417.1 THA 2.71

ORBIT DETERMINATION ACCURACY

ST 714.0 SR 409.6 SS 271.9
 CRT .2591 CRS .1601 CST -.9041
 LSA 763.0 MSA 410.3 SSA 30.9
 EL1 725.1 EL2 389.5 ALF 11.95

LAUNCH DATE MAR 8 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 536.250

RL 148.50 LAL .00 LOL 167.25 VL 26.055 GAL 3.52 AZL 90.10 HCA 270.88 SMA 119.72 ECC .24770 INC .1021 V1 30.004
 RP 107.76 LAP .10 LOP 78.13 VP 36.805 GAP 13.17 AZP 90.00 TAL 169.17 TAP 80.05 RCA 90.06 APO 149.37 V2 35.166
 RC 192.690 GL -.64 GP -13.87 ZAL 73.96 ZAP 165.56 ETS 289.56 ZAE 132.14 ETE 192.63 ZAC 176.87 ETC 176.51 CLP-175.94

PLANETOCENTRIC CONIC

C3 17.287 VHL 4.158 DLA 22.76 RAL 93.57 RAD 6567.7 VEL 11.776 PTH 2.08 VHP 8.854 DPA 9.78 RAP 83.11 ECC 1.2845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 9 17 2982.88 -28.07 95.19 320.62 86.12 3 59 0 2382.9 -28.31 86.53
 90.00 21 55 17 4021.49 -5.69 161.99 314.04 62.21 23 2 19 3421.5 -9.37 155.24
 100.00 4 47 38 2665.77 -29.83 71.96 320.73 87.99 5 32 4 2065.8 -29.79 63.15
 100.00 22 59 38 3813.82 -4.15 145.88 313.19 60.37 24 3 12 3213.8 -8.06 139.28
 110.00 6 30 40 2343.42 -34.09 47.45 320.70 92.65 7 9 44 1743.4 -33.35 38.29
 110.00 23 33 5 3708.94 -.53 135.68 310.94 55.82 24 34 54 3108.9 -5.01 129.46

DIFFERENTIAL CORRECTIONS

TDE -.0859 TRA 1.7712 TC3-5.7110 BAU 1.3207
 RDE .2872 RRA .1520 RC3 -.2009 FAU .02105
 FDE -.1193 FRA .7848 FC3-1.0543 BSP 17503
 BDE .2997 BRA 1.7777 BC3 5.7145 FSP -421

MID-COURSE EXECUTION ACCURACY

SGT 5438.1 SGR 485.9 SG3 127.3
 RRT .5100 RRF .4858 RTF .9094
 SGB 5459.8 R23 .0224 R13 .9095
 SG1 5443.8 SG2 417.5 THA 2.62

ORBIT DETERMINATION ACCURACY

ST 815.4 SR 401.6 SS 297.7
 CRT .0244 CRS .2619 CST -.9534
 LSA 863.9 MSA 409.5 SSA 27.0
 EL1 815.5 EL2 401.4 ALF .91

LAUNCH DATE MAR 8 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 541.650

RL 148.50 LAL .00 LOL 167.25 VL 26.005 GAL 4.20 AZL 90.29 HCA 274.11 SMA 119.44 ECC .25350 INC .2943 V1 30.004
 RP 107.73 LAP .29 LOP 81.36 VP 36.779 GAP 13.59 AZP 90.02 TAL 167.40 TAP 81.50 RCA 89.16 APO 149.72 V2 35.177
 RC 194.480 GL -1.77 GP -13.50 ZAL 70.32 ZAP 166.10 ETS 287.37 ZAE 132.29 ETE 192.34 ZAC 179.00 ETC 137.40 CLP-176.69

PLANETOCENTRIC CONIC

C3 18.672 VHL 4.321 DLA 21.50 RAL 97.46 RAD 6567.8 VEL 11.834 PTH 2.10 VHP 9.087 DPA 10.38 RAP 85.51 ECC 1.3073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 26 2941.14 -28.23 92.14 325.46 87.64 4 30 27 2341.1 -28.26 83.48
 90.00 21 54 10 4099.17 -3.21 166.35 318.44 61.85 23 2 29 3499.2 -6.95 159.67
 100.00 5 17 37 2631.02 -29.89 69.38 325.51 89.35 6 1 28 2031.0 -29.66 60.58
 100.00 23 0 40 3884.53 -1.76 149.77 317.64 60.15 24 5 25 3284.5 -5.72 143.22
 110.00 6 56 59 2320.13 -34.00 45.64 325.38 93.72 7 35 39 1720.1 -33.12 36.51
 110.00 23 37 47 3768.17 1.73 138.77 315.45 55.86 24 40 35 3168.2 -2.76 132.57

DIFFERENTIAL CORRECTIONS

TDE -.2322 TRA 2.0764 TC3-5.2933 BAU 1.3221
 RDE .2915 RRA .1689 RC3 -.1820 FAU .01959
 FDE -.1570 FRA .8342 FC3 -.9082 BSP 17537
 BDE .3727 BRA 2.0833 BC3 5.2964 FSP -411

MID-COURSE EXECUTION ACCURACY

SGT 5456.9 SGR 481.7 SG3 124.4
 RRT .4994 RRF .4745 RTF .9130
 SGB 5478.1 R23 .0184 R13 .9130
 SG1 5462.2 SG2 416.9 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 949.6 SR 393.2 SS 324.7
 CRT -.1453 CRS .3358 CST -.9775
 LSA 1003.9 MSA 391.5 SSA 24.0
 EL1 951.6 EL2 388.2 ALF 175.87

LAUNCH DATE MAR 8 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 546.993

RL 148.50 LAL .00 LOL 167.25 VL 25.886 GAL 4.92 AZL 90.49 HCA 277.34 SMA 119.17 ECC .25984 INC .4876 V1 30.004
 RP 107.70 LAP .48 LOP 84.58 VP 36.754 GAP 14.03 AZP 90.06 TAL 165.64 TAP 82.98 RCA 88.20 APO 150.13 V2 35.187
 RC 196.245 GL -2.80 GP -13.17 ZAL 66.82 ZAP 166.58 ETS 284.54 ZAE 132.41 ETE 192.08 ZAC 177.99 ETC 35.11 CLP-177.43

PLANETOCENTRIC CONIC

C3 20.359 VHL 4.512 DLA 20.24 RAL 101.14 RAD 6567.8 VEL 11.905 PTH 2.12 VHP 9.340 DPA 10.91 RAP 87.94 ECC 1.3350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 11 11 2906.64 -28.30 89.62 330.26 88.91 4 59 38 2306.6 -28.15 80.96
 90.00 21 53 48 4174.63 -.78 170.57 322.88 61.69 23 3 23 3574.6 -4.56 163.92
 100.00 5 45 38 2602.10 -29.89 67.23 330.27 90.48 6 29 0 2002.1 -29.50 58.44
 100.00 23 2 2 3954.40 .61 153.61 322.11 60.11 24 7 57 3354.4 -3.37 147.08
 110.00 7 21 52 2301.00 -33.91 44.15 330.06 94.59 8 0 13 1701.0 -32.90 35.06
 110.00 23 42 17 3828.27 4.03 141.91 319.98 56.03 24 46 6 3228.3 -.46 135.70

DIFFERENTIAL CORRECTIONS

TDE -.3924 TRA 2.3927 TC3-4.8607 BAU 1.3237
 RDE .2965 RRA .1855 RC3 -.1632 FAU .01823
 FDE -.1954 FRA .8828 FC3 -.7753 BSP 17659
 BDE .4918 BRA 2.3998 BC3 4.8634 FSP -404

MID-COURSE EXECUTION ACCURACY

SGT 5474.9 SGR 475.9 SG3 121.5
 RRT .4879 RRF .4624 RTF .9170
 SGB 5495.5 R23 .0143 R13 .9170
 SG1 5479.9 SG2 415.0 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 1099.7 SR 384.0 SS 352.2
 CRT -.2696 CRS .3959 CST -.9888
 LSA 1159.3 MSA 369.4 SSA 21.6
 EL1 1105.2 EL2 367.9 ALF 173.95

LAUNCH DATE MAR 8 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 552.272

RL 148.50 LAL .00 LOL 167.25 VL 25.907 GAL 5.68 AZL 90.68 HCA 280.57 SMA 118.90 ECC .26678 INC .6841 V1 30.004
 RP 107.67 LAP .67 LOP 87.81 VP 36.729 GAP 14.51 AZP 90.13 TAL 163.91 TAP 84.47 RCA 87.18 APO 150.62 V2 35.196
 RC 197.986 GL -3.73 GP -12.87 ZAL 63.48 ZAP 167.01 ETS 281.46 ZAE 132.53 ETE 191.83 ZAC 175.65 ETC 22.03 CLP-178.19

PLANETOCENTRIC CONIC

C3 22.388 VHL 4.732 DLA 19.01 RAL 104.61 RAD 6567.9 VEL 11.990 PTH 2.14 VHP 9.615 DPA 11.37 RAP 90.38 ECC 1.3684
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 38 43 2878.74 -28.32 87.58 335.00 89.93 5 26 42 2278.7 -28.03 78.93
 90.00 21 53 58 4248.28 1.60 174.67 327.34 61.72 23 4 46 3648.3 -2.20 168.05
 100.00 6 11 44 2578.79 -29.86 65.49 334.98 91.39 6 54 43 1978.8 -29.35 56.73
 100.00 23 3 38 4023.46 2.95 157.40 326.58 60.24 24 10 41 3423.5 -1.03 150.87
 110.00 7 45 17 2286.13 -33.82 43.00 334.71 95.27 8 23 23 1686.1 -32.72 33.93
 110.00 23 46 35 3888.89 6.32 145.10 324.49 56.34 24 51 23 3288.9 1.86 138.86

DIFFERENTIAL CORRECTIONS

TDE -.5616 TRA 2.7255 TC3-4.4170 BAU 1.3227
 RDE .3025 RRA .2020 RC3 -.1442 FAU .01691
 FDE -.2330 FRA .9323 FC3 -.6540 BSP 17767
 BDE .6379 BRA 2.7330 BC3 4.4193 FSP -397

MID-COURSE EXECUTION ACCURACY

SGT 5488.2 SGR 468.8 SG3 118.7
 RRT .4759 RRF .4502 RTF .9211
 SGB 5508.2 R23 .0106 R13 .9212
 SG1 5492.7 SG2 411.9 THA 2.34

ORBIT DETERMINATION ACCURACY

ST 1255.0 SR 374.5 SS 379.1
 CRT -.3560 CRS .4417 CST -.9941
 LSA 1318.0 MSA 348.6 SSA 19.7
 EL1 1262.6 EL2 347.8 ALF 173.44

LAUNCH DATE MAR 8 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 557.476

RL 148.50 LAL .00 LOL 167.25 VL 25.860 GAL 6.48 AZL 90.88 MCA 283.80 SMA 118.64 ECC .27439 INC .8847 V1 30.004
 RP 107.64 LAP .86 LOP 91.05 VP 36.704 GAP 15.03 AZP 90.21 TAL 162.20 TAP 86.00 RCA 86.08 APO 151.19 V2 35.205
 RC 199.701 GL -4.57 GP -12.59 ZAL 60.32 ZAP 167.37 ETS 278.14 ZAE 132.62 ETE 191.59 ZAC 173.26 ETC 18.12 CLP -178.95

PLANETOCENTRIC CONIC

C3 24.812 VHL 4.981 DLA 17.82 RAL 107.87 RAD 6568.0 VEL 12.091 PTH 2.16 VHP 9.913 DPA 11.76 RAP 92.82 ECC 1.4084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 4 10 2856.95 -28.31 85.99 339.70 90.73 5 51 47 2257.0 -27.91 77.34
 90.00 21 54 29 4320.33 3.91 178.70 331.80 61.93 23 6 30 3720.3 .13 172.06
 100.00 6 35 59 2560.86 -29.83 64.16 339.65 92.09 7 18 40 1960.9 -29.22 55.41
 100.00 23 5 21 4091.65 5.24 161.16 331.06 60.53 24 13 33 3491.7 1.28 154.61
 110.00 8 7 11 2275.54 -33.75 42.18 339.34 95.75 8 45 6 1675.5 -32.59 33.14
 110.00 23 50 39 3949.74 8.61 148.33 329.00 56.79 24 56 29 3349.7 4.18 142.05

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.7391 TRA 3.0769 TC3-3.9736 BAU 1.3188 SGT 5496.7 SGR 460.5 SG3 116.0 ST 1407.4 SR 364.9 SS 405.0
 RDE .3097 RRA .2183 RC3 -.1255 FAU .01561 RRT .4632 RRF .4380 RTF .9253 CRT -.4170 CRS .4762 CST -.9967
 FDE -.2696 FRA .9838 FC3 -.5447 BSP 17845 SGB 5516.0 R23 .0080 R13 .9254 LSA 1472.6 MSA 330.0 SSA 18.1
 BOE .8014 BRA 3.0846 BC3 3.9756 FSP -389 SGI 5500.9 SG2 407.8 THA 2.23 EL1 1416.1 EL2 329.6 ALF 173.47

LAUNCH DATE MAR 8 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 562.592

RL 148.50 LAL .00 LOL 167.25 VL 25.813 GAL 7.33 AZL 91.09 MCA 287.03 SMA 118.38 ECC .28273 INC 1.0911 V1 30.004
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.679 GAP 15.59 AZP 90.32 TAL 160.52 TAP 87.55 RCA 84.91 APO 151.85 V2 35.213
 RC 201.391 GL -5.32 GP -12.34 ZAL 57.33 ZAP 167.66 ETS 274.58 ZAE 132.70 ETE 191.37 ZAC 170.86 ETC 16.24 CLP -179.72

PLANETOCENTRIC CONIC

C3 27.695 VHL 5.263 DLA 16.68 RAL 110.91 RAD 6568.1 VEL 12.209 PTH 2.19 VHP 10.239 DPA 12.09 RAP 95.28 ECC 1.4558
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 27 39 2840.87 -28.29 84.81 344.34 91.32 6 15 0 2240.9 -27.81 76.18
 90.00 21 55 16 4390.83 6.16 182.67 336.25 62.31 23 8 27 3790.8 2.40 176.00
 100.00 6 58 27 2548.06 -29.79 63.21 344.28 92.59 7 40 55 1948.1 -29.11 54.47
 100.00 23 7 9 4158.88 7.48 164.89 335.53 60.97 24 16 28 3558.9 3.55 158.31
 110.00 8 27 35 2269.17 -33.71 41.69 343.93 96.04 9 5 24 1669.2 -32.51 32.66
 110.00 23 54 30 4010.53 10.86 151.60 333.49 57.39 25 1 21 3410.5 6.48 145.25

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.9212 TRA 3.4512 TC3-3.5350 BAU 1.3094 SGT 5498.7 SGR 451.1 SG3 113.4 ST 1550.2 SR 355.5 SS 429.0
 RDE .3182 RRA .2341 RC3 -.1072 FAU .01429 RRT .4499 RRF .4261 RTF .9296 CRT -.4593 CRS .5011 CST -.9980
 FDE -.3041 FRA 1.0382 FC3 -.4466 BSP 17820 SGB 5517.2 R23 .0063 R13 .9296 LSA 1617.0 MSA 314.2 SSA 16.8
 BOE .9746 BRA 3.4592 BC3 3.5366 FSP -378 SGI 5502.5 SG2 402.6 THA 2.13 EL1 1559.2 EL2 314.0 ALF 173.73

LAUNCH DATE MAR 8 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 567.604

RL 148.50 LAL .00 LOL 167.25 VL 25.768 GAL 8.23 AZL 91.30 MCA 290.26 SMA 118.13 ECC .29190 INC 1.3048 V1 30.004
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.655 GAP 16.20 AZP 90.45 TAL 158.87 TAP 89.13 RCA 83.65 APO 152.62 V2 35.221
 RC 203.056 GL -5.98 GP -12.10 ZAL 54.53 ZAP 167.89 ETS 270.80 ZAE 132.76 ETE 191.16 ZAC 168.47 ETC 15.13 CLP 179.49

PLANETOCENTRIC CONIC

C3 31.111 VHL 5.578 DLA 15.60 RAL 113.74 RAD 6568.2 VEL 12.348 PTH 2.23 VHP 10.595 DPA 12.35 RAP 97.73 ECC 1.5120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 16 2830.10 -28.27 84.02 348.93 91.71 6 36 26 2230.1 -27.73 75.40
 90.00 21 56 14 4459.82 8.32 186.58 340.69 62.84 23 10 33 3859.8 4.62 179.86
 100.00 7 19 12 2540.12 -29.76 62.62 348.86 92.90 8 1 32 1940.1 -29.04 53.89
 100.00 23 8 59 4225.04 9.65 168.61 339.99 61.57 24 19 24 3625.0 5.78 161.96
 110.00 8 46 31 2266.89 -33.69 41.51 348.49 96.14 9 24 18 1666.9 -32.48 32.49
 110.00 0 2 5 4071.03 13.06 154.91 337.97 58.12 1 9 56 3471.0 8.75 148.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.1169 TRA 3.8422 TC3-3.1217 BAU 1.2990 SGT 5498.6 SGR 440.2 SG3 110.9 ST 1684.7 SR 345.8 SS 452.5
 RDE .3275 RRA .2489 RC3 -.0904 FAU .01306 RRT .4349 RRF .4125 RTF .9342 CRT -.4941 CRS .5239 CST -.9987
 FDE -.3398 FRA 1.0934 FC3 -3.3634 BSP 17894 SGB 5516.2 R23 .0045 R13 .9343 LSA 1753.0 MSA 299.1 SSA 15.7
 BOE 1.1639 BRA 3.8502 BC3 3.1231 FSP -372 SGI 5501.9 SG2 396.2 THA 2.00 EL1 1693.7 EL2 299.0 ALF 174.02

LAUNCH DATE MAR 8 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 572.493

RL 148.50 LAL .00 LOL 167.25 VL 25.723 GAL 9.19 AZL 91.53 MCA 293.50 SMA 117.89 ECC .30199 INC 1.5278 V1 30.004
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.630 GAP 16.87 AZP 90.61 TAL 157.26 TAP 90.76 RCA 82.29 APO 153.49 V2 35.228
 RC 204.697 GL -6.56 GP -11.89 ZAL 51.91 ZAP 168.04 ETS 266.82 ZAE 132.79 ETE 190.96 ZAC 166.09 ETC 14.40 CLP 178.68

PLANETOCENTRIC CONIC

C3 35.156 VHL 5.929 DLA 14.57 RAL 116.36 RAD 6568.4 VEL 12.511 PTH 2.27 VHP 10.986 DPA 12.55 RAP 100.17 ECC 1.5786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 9 9 2824.26 -28.26 83.60 353.46 91.93 6 56 13 2224.3 -27.69 74.98
 90.00 21 57 18 4527.27 10.40 190.45 345.11 63.51 23 12 45 3927.3 6.76 183.66
 100.00 7 38 18 2536.73 -29.75 62.37 353.38 93.03 8 20 35 1936.7 -29.01 53.65
 100.00 23 10 50 4290.04 11.73 172.31 344.42 62.31 24 22 20 3690.0 7.93 165.58
 110.00 9 4 1 2268.51 -33.70 41.63 353.01 96.07 9 41 50 1668.5 -32.50 32.61
 110.00 0 5 32 4131.02 15.19 158.25 342.42 59.00 1 14 23 3531.0 10.97 151.69

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -1.3217 TRA 4.2567 TC3-2.7298 BAU 1.2835 SGT 5493.0 SGR 428.2 SG3 108.4 ST 1807.3 SR 336.1 SS 475.0
 RDE .3382 RRA .2625 RC3 -.0748 FAU .01185 RRT .4182 RRF .3977 RTF .9391 CRT -.5216 CRS .5427 CST -.9992
 FDE -.3750 FRA 1.1516 FC3 -.2918 BSP 17953 SGB 5509.7 R23 .0033 R13 .9391 LSA 1877.0 MSA 285.4 SSA 14.7
 BOE 1.3643 BRA 4.2648 BC3 2.7308 FSP -364 SGI 5496.0 SG2 388.7 THA 1.88 EL1 1816.0 EL2 285.4 ALF 174.32

LAUNCH DATE MAR 8 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 577.235

RL 148.50 LAL .00 LOL 167.25 VL 25.679 GAL 10.22 AZL 91.76 MCA 296.73 SMA 117.66 ECC .31313 INC 1.7620 V1 30.004
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.606 GAP 17.59 AZP 90.79 TAL 155.70 TAP 92.43 RCA 80.81 APO 154.50 V2 35.235
 RC 206.313 GL -7.06 GP -11.69 ZAL 49.48 ZAP 168.12 ETS 262.66 ZAE 132.80 ETE 190.76 ZAC 163.73 ETC 13.87 CLP 177.86

PLANETOCENTRIC CONIC

C3 39.944 VHL 6.320 DLA 13.61 RAL 118.79 RAD 6568.5 VEL 12.701 PTH 2.31 VHP 11.416 DPA 12.69 RAP 102.60 ECC 1.6574
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 21 2822.95 -28.25 83.50 357.92 91.97 7 14 24 2223.0 -27.68 74.88
 90.00 21 58 27 4593.11 12.37 194.28 349.51 64.32 23 15 0 3993.1 8.81 187.41
 100.00 7 55 51 2537.56 -29.76 62.43 357.85 93.00 8 38 9 1937.6 -29.02 53.71
 100.00 23 12 39 4353.73 13.72 176.00 348.83 63.18 24 25 12 3753.7 10.01 169.17
 110.00 9 20 9 2273.78 -33.74 42.04 357.49 95.83 9 58 3 1673.8 -32.57 33.00
 110.00 0 8 46 4190.27 17.23 161.63 346.85 60.01 1 18 36 3590.3 13.12 154.93

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.5363 TRA 4.6987 TC3-2.3646 BAU 1.2631 SGT 5484.6 SGR 414.9 SG3 106.0 ST 1917.4 SR 326.6 SS 496.7
 ROE .3501 RRA .2745 RC3 -.0607 FAU .01065 RRT .3996 RRF .3815 RTF .9440 CRT -.5443 CRS .5589 CST -.9994
 FDE -.4101 FRA 1.2132 FC3 -.2309 BSP 17984 SGB 5500.3 R23 .0026 R13 .9440 LSA 1988.8 MSA 272.7 SSA 13.8
 BOE 1.5757 BRA 4.7067 BC3 2.3653 FSP -357 SG1 5487.1 SG2 380.2 THA 1.74 EL1 1925.8 EL2 272.7 ALF 174.59

LAUNCH DATE MAR 8 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 581.802

RL 148.50 LAL .00 LOL 167.25 VL 25.636 GAL 11.33 AZL 92.01 MCA 299.97 SMA 117.43 ECC .32545 INC 2.0101 V1 30.004
 RP 107.53 LAP 1.74 LOP 107.24 VP 36.581 GAP 18.39 AZP 91.00 TAL 154.19 TAP 94.17 RCA 79.21 APO 155.65 V2 35.240
 RC 207.904 GL -7.50 GP -11.51 ZAL 47.24 ZAP 168.11 ETS 258.36 ZAE 132.78 ETE 190.56 ZAC 161.39 ETC 13.48 CLP 177.01

PLANETOCENTRIC CONIC

C3 45.622 VHL 6.754 DLA 12.72 RAL 121.03 RAD 6568.7 VEL 12.922 PTH 2.36 VHP 11.891 DPA 12.77 RAP 105.01 ECC 1.7508
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 44 0 2825.79 -28.26 83.71 2.31 91.87 7 31 6 2225.8 -27.70 75.09
 90.00 21 59 38 4657.25 14.23 198.07 353.87 65.26 23 17 16 4057.2 10.77 191.10
 100.00 8 11 55 2542.28 -29.77 62.78 2.24 92.82 8 54 17 1942.3 -29.06 54.05
 100.00 23 14 25 4415.99 15.60 179.67 353.20 64.17 24 28 1 3816.0 12.00 172.73
 110.00 9 34 57 2282.44 -33.80 42.71 1.90 95.44 10 13 0 1682.4 -32.68 33.65
 110.00 0 11 48 4248.59 19.18 165.02 351.26 61.15 1 22 36 3648.6 15.19 158.18

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.7576 TRA 5.1718 TC3-2.0236 BAU 1.2346 SGT 5470.2 SGR 400.7 SG3 103.6 ST 2012.5 SR 317.2 SS 517.5
 ROE .3636 RRA .2847 RC3 -.0480 FAU .00941 RRT .3790 RRF .3638 RTF .9490 CRT -.5630 CRS .5724 CST -.9996
 FDE -.4445 FRA 1.2798 FC3 -.1786 BSP 17920 SGB 5484.9 R23 .0027 R13 .9490 LSA 2085.7 MSA 261.1 SSA 13.0
 BOE 1.7948 BRA 5.1796 BC3 2.0242 FSP -348 SG1 5472.3 SG2 370.7 THA 1.60 EL1 2020.5 EL2 261.1 ALF 174.84

LAUNCH DATE MAR 8 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 586.157

RL 148.50 LAL .00 LOL 167.25 VL 25.595 GAL 12.53 AZL 92.28 MCA 303.21 SMA 117.21 ECC .33911 INC 2.2750 V1 30.004
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.557 GAP 19.27 AZP 91.25 TAL 152.76 TAP 95.96 RCA 77.46 APO 156.95 V2 35.246
 RC 209.470 GL -7.88 GP -11.34 ZAL 45.17 ZAP 168.02 ETS 253.96 ZAE 132.72 ETE 190.37 ZAC 159.08 ETC 13.18 CLP 176.12

PLANETOCENTRIC CONIC

C3 52.369 VHL 7.237 DLA 11.90 RAL 123.08 RAD 6568.9 VEL 13.181 PTH 2.41 VHP 12.418 DPA 12.79 RAP 107.39 ECC 1.8619
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 59 10 2832.38 -28.27 84.19 6.62 91.63 7 46 22 2232.4 -27.75 75.56
 90.00 22 0 51 4719.55 15.97 201.82 358.18 66.30 23 19 30 4119.6 12.63 194.73
 100.00 8 26 34 2550.52 -29.80 63.40 6.56 92.50 9 9 4 1950.5 -29.13 54.65
 100.00 23 16 8 4476.64 17.36 183.31 357.52 65.28 24 30 45 3876.6 13.88 176.24
 110.00 9 48 29 2294.18 -33.87 43.62 6.25 94.90 10 26 43 1694.2 -32.82 34.54
 110.00 0 14 38 4305.75 21.03 168.44 355.62 62.41 1 26 24 3705.7 17.16 161.44

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-1.9953 TRA 5.6732 TC3-1.7149 BAU 1.2010 SGT 5452.3 SGR 385.3 SG3 101.4 ST 2097.1 SR 307.8 SS 538.9
 ROE .3783 RRA .2922 RC3 -.0369 FAU .00822 RRT .3546 RRF .3424 RTF .9541 CRT -.5815 CRS .5870 CST -.9997
 FDE -.4808 FRA 1.3500 FC3 -.1359 BSP 17945 SGB 5465.9 R23 .0027 R13 .9541 LSA 2172.7 MSA 249.5 SSA 12.3
 BOE 2.0309 BRA 5.6808 BC3 1.7153 FSP -341 SG1 5454.0 SG2 360.2 THA 1.44 EL1 2104.8 EL2 249.5 ALF 175.05

LAUNCH DATE MAR 8 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 590.253

RL 148.50 LAL .00 LOL 167.25 VL 25.554 GAL 13.83 AZL 92.56 MCA 306.45 SMA 116.99 ECC .35431 INC 2.5604 V1 30.004
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.533 GAP 20.25 AZP 91.52 TAL 151.40 TAP 97.84 RCA 75.54 APO 158.45 V2 35.250
 RC 211.012 GL -8.20 GP -11.19 ZAL 43.28 ZAP 167.84 ETS 249.50 ZAE 132.62 ETE 190.17 ZAC 156.81 ETC 12.95 CLP 175.20

PLANETOCENTRIC CONIC

C3 60.417 VHL 7.773 DLA 11.15 RAL 124.95 RAD 6569.1 VEL 13.482 PTH 2.46 VHP 13.004 DPA 12.77 RAP 109.73 ECC 1.9943
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 54 2842.33 -28.29 84.92 10.84 91.26 8 0 16 2242.3 -27.82 76.28
 90.00 22 2 2 4779.86 17.58 205.51 2.42 67.44 23 21 42 4179.9 14.37 198.30
 100.00 8 39 50 2561.93 -29.83 64.24 10.78 92.05 9 22 32 1961.9 -29.23 55.49
 100.00 23 17 47 4535.49 19.00 186.91 1.78 66.48 24 33 22 3935.5 15.66 179.71
 110.00 10 0 46 2308.68 -33.95 44.75 10.52 94.24 10 39 15 1708.7 -32.99 35.64
 110.00 0 17 16 4361.51 22.74 171.85 359.93 63.77 1 29 58 3761.5 19.03 164.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TOE-2.2462 TRA 6.2110 TC3-1.4341 BAU 1.1586 SGT 5430.2 SGR 369.0 SG3 99.2 ST 2169.2 SR 298.5 SS 560.8
 ROE .3947 RRA .2967 RC3 -.0274 FAU .00699 RRT .3262 RRF .3172 RTF .9591 CRT -.5992 CRS .6013 CST -.9998
 FDE -.5180 FRA 1.4259 FC3 -.1002 BSP 17953 SGB 5442.7 R23 .0032 R13 .9591 LSA 2247.7 MSA 238.2 SSA 11.6
 BOE 2.2806 BRA 6.2181 BC3 1.4344 FSP -334 SG1 5431.5 SG2 348.7 THA 1.28 EL1 2176.7 EL2 238.2 ALF 175.23

LAUNCH DATE MAR 8 1969

FLIGHT TIME 206.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 594.033

RL 148.50 LAL .00 LOL 167.25 VL 25.515 GAL 15.25 AZL 92.87 MCA 309.68 SMA 116.79 ECC .37127 INC 2.8707 V1 30.004
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.509 GAP 21.33 AZP 91.83 TAL 150.13 TAP 99.81 RCA 73.43 APO 160.15 V2 35.254
 RC 212.528 GL -8.47 GP -11.04 ZAL 41.57 ZAP 167.56 ETS 245.02 ZAE 132.47 ETE 189.97 ZAC 154.59 ETC 12.76 CLP 174.23

PLANETOCENTRIC CONIC

C3 70.058 VHL 8.370 DLA 10.46 RAL 126.64 RAD 6569.3 VEL 13.835 PTH 2.53 VMP 13.660 DPA 12.71 RAP 112.02 ECC 2.1530
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 25 15 2855.29 -28.31 85.86 14.93 90.79 8 12 50 2255.3 -27.90 77.22
 90.00 22 3 12 4837.95 19.06 209.13 6.57 68.66 23 23 50 4238.0 15.99 201.80
 100.00 8 51 47 2576.16 -29.86 65.30 14.90 91.50 9 34 44 1976.2 -29.33 56.53
 100.00 23 19 20 4592.31 20.50 190.46 5.96 67.76 24 35 53 3992.3 17.31 183.12
 110.00 10 11 51 2325.64 -34.03 46.06 14.68 93.47 10 50 37 1725.6 -33.17 36.93
 110.00 0 19 42 4415.60 24.33 175.25 4.16 65.21 1 33 18 3815.6 20.78 167.90

DIFFERENTIAL CORRECTIONS

TOE-2.5117 TRA 6.7903 TC3-1.1798 BAU 1.1052
 RDE .4129 RRA .2974 RC3 -.0194 FAU .00571
 FDE -.5567 FRA 1.5086 FC3 -.0706 BSP 17937
 BOE 2.5454 BRA 6.7968 BC3 1.1800 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 5403.7 SGR 351.9 SG3 97.1
 RRT .2929 RRF .2873 RTF .9641
 SGB 5415.1 R23 .0040 R13 .9641
 SG1 5404.6 SG2 336.4 THA 1.10

ORBIT DETERMINATION ACCURACY

ST 2229.5 SR 289.4 SS 583.6
 CRT -.6166 CRS .6160 CST -.9998
 LSA 2311.5 MSA 227.1 SSA 11.0
 EL1 2236.7 EL2 227.1 ALF 175.38

LAUNCH DATE MAR 8 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 597.422

RL 148.50 LAL .00 LOL 167.25 VL 25.478 GAL 16.81 AZL 93.21 MCA 312.92 SMA 116.59 ECC .39027 INC 3.2116 V1 30.004
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.486 GAP 22.55 AZP 92.19 TAL 148.98 TAP 101.90 RCA 71.09 APO 162.09 V2 35.256
 RC 214.018 GL -8.70 GP -10.91 ZAL 40.04 ZAP 167.17 ETS 240.56 ZAE 132.25 ETE 189.77 ZAC 152.41 ETC 12.62 CLP 173.21

PLANETOCENTRIC CONIC

C3 81.671 VHL 9.037 DLA 9.85 RAL 128.16 RAD 6569.6 VEL 14.248 PTH 2.59 VMP 14.398 DPA 12.60 RAP 114.26 ECC 2.3441
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 36 14 2870.88 -28.32 87.00 18.89 90.22 8 24 5 2270.9 -27.99 78.35
 90.00 22 4 19 4893.57 20.40 212.66 10.62 69.93 23 25 53 4293.6 17.48 205.20
 100.00 9 2 26 2592.86 -29.88 66.54 18.88 90.84 9 45 39 1992.9 -29.44 57.76
 100.00 23 20 48 4646.83 21.87 193.93 10.03 69.10 24 38 15 4046.8 18.83 186.45
 110.00 10 21 44 2344.72 -34.10 47.55 18.73 92.59 11 0 49 1744.7 -33.36 38.39
 110.00 0 21 56 4467.72 25.78 178.61 8.30 66.73 1 36 23 3867.7 22.40 171.08

DIFFERENTIAL CORRECTIONS

TOE-2.7901 TRA 7.4201 TC3 -.9491 BAU 1.0364
 RDE .4333 RRA .2936 RC3 -.0128 FAU .00429
 FDE -.5964 FRA 1.6001 FC3 -.0455 BSP 17812
 BOE 2.8236 BRA 7.4259 BC3 .9492 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 5373.2 SGR 334.2 SG3 95.0
 RRT .2538 RRF .2517 RTF .9689
 SGB 5383.5 R23 .0051 R13 .9689
 SG1 5373.8 SG2 323.2 THA .91

ORBIT DETERMINATION ACCURACY

ST 2276.8 SR 280.5 SS 607.4
 CRT -.6338 CRS .6306 CST -.9998
 LSA 2363.1 MSA 216.4 SSA 10.4
 EL1 2283.8 EL2 216.3 ALF 175.49

LAUNCH DATE MAR 8 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 600.322

RL 148.50 LAL .00 LOL 167.25 VL 25.442 GAL 18.54 AZL 93.59 MCA 316.16 SMA 116.41 ECC .41161 INC 3.5905 V1 30.004
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.463 GAP 23.93 AZP 92.59 TAL 147.97 TAP 104.12 RCA 68.49 APO 164.32 V2 35.259
 RC 215.482 GL -8.88 GP -10.78 ZAL 38.68 ZAP 166.67 ETS 236.16 ZAE 131.97 ETE 189.55 ZAC 150.30 ETC 12.51 CLP 172.12

PLANETOCENTRIC CONIC

C3 95.750 VHL 9.785 DLA 9.32 RAL 129.50 RAD 6569.9 VEL 14.734 PTH 2.67 VMP 15.231 DPA 12.46 RAP 116.43 ECC 2.5758
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 45 53 2888.79 -28.31 88.31 22.70 89.56 8 34 1 2288.8 -28.07 79.66
 90.00 22 5 22 4946.40 21.60 216.07 14.51 71.23 23 27 49 4346.4 18.84 208.49
 100.00 9 11 47 2611.71 -29.89 67.94 22.70 90.11 9 55 19 2011.7 -29.56 59.15
 100.00 23 22 9 4698.71 23.09 197.30 13.95 70.47 24 40 28 4098.7 20.21 189.69
 110.00 10 30 25 2365.64 -34.15 49.18 22.62 91.62 11 9 51 1765.6 -33.55 39.99
 110.00 0 23 56 4517.55 27.07 181.90 12.30 68.29 1 39 14 3917.5 23.88 174.19

DIFFERENTIAL CORRECTIONS

TDE-3.0932 TRA 8.0977 TC3 -.7454 BAU .9542
 RDE .4562 RRA .2839 RC3 -.0077 FAU .00280
 FDE -.6400 FRA 1.6998 FC3 -.0253 BSP 17799
 BOE 3.1266 BRA 8.1027 BC3 7454 FSP -313

MID-COURSE EXECUTION ACCURACY

SGT 5338.1 SGR 316.1 SG3 93.1
 RRT .2060 RRF .2072 RTF .9735
 SGB 5347.4 R23 .0061 R13 .9735
 SG1 5338.5 SG2 309.3 THA .70

ORBIT DETERMINATION ACCURACY

ST 2315.2 SR 271.8 SS 633.8
 CRT -.6529 CRS .6477 CST -.9999
 LSA 2406.9 MSA 205.5 SSA 9.7
 EL1 2322.0 EL2 205.3 ALF 175.58

LAUNCH DATE MAR 8 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

DISTANCE 602.606

RL 148.50 LAL .00 LOL 167.25 VL 25.408 GAL 20.46 AZL 94.02 MCA 319.39 SMA 116.23 ECC .43569 INC 4.0167 V1 30.004
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.440 GAP 25.49 AZP 93.05 TAL 147.12 TAP 106.51 RCA 65.59 APO 166.87 V2 35.260
 RC 216.920 GL -9.03 GP -10.66 ZAL 37.52 ZAP 166.05 ETS 231.82 ZAE 131.60 ETE 189.31 ZAC 148.28 ETC 12.43 CLP 170.94

PLANETOCENTRIC CONIC

C3 112.946 VHL 10.628 DLA 8.86 RAL 130.66 RAD 6570.1 VEL 15.306 PTH 2.74 VMP 16.177 DPA 12.29 RAP 118.51 ECC 2.8588
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 54 8 2908.72 -28.29 89.77 26.31 88.83 8 42 37 2308.7 -28.16 81.11
 90.00 22 6 20 4996.08 22.65 219.34 18.23 72.54 23 29 36 4396.1 20.05 211.63
 100.00 9 19 48 2632.45 -29.88 69.48 26.34 89.29 10 3 40 2032.4 -29.66 60.69
 100.00 23 23 22 4747.58 24.16 200.54 17.70 71.85 24 42 29 4147.6 21.46 192.78
 110.00 10 37 52 2388.11 -34.18 50.84 26.34 90.59 11 17 41 1788.1 -33.72 41.72
 110.00 0 25 42 4564.68 28.22 185.09 16.13 69.86 1 41 47 3964.7 25.22 177.20

DIFFERENTIAL CORRECTIONS

TDE-3.4174 TRA 8.8359 TC3 -.5637 BAU .8512
 RDE .4820 RRA .2671 RC3 -.0038 FAU .00109
 FDE -.6868 FRA 1.8107 FC3 -.0084 BSP 17758
 BOE 3.4512 BRA 8.8399 BC3 .5637 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 5298.4 SGR 298.1 SG3 91.2
 RRT .1480 RRF .1524 RTF .9778
 SGB 5306.8 R23 .0073 R13 .9778
 SG1 5298.6 SG2 294.8 THA .48

ORBIT DETERMINATION ACCURACY

ST 2342.6 SR 263.5 SS 662.9
 CRT -.6731 CRS .6662 CST -.9999
 LSA 2441.0 MSA 194.6 SSA 9.2
 EL1 2349.3 EL2 194.3 ALF 175.64

LAUNCH DATE MAR 8 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC

DISTANCE 604.107

RL 148.50 LAL .00 LOL 167.25 VL 25.377 GAL 22.61 AZL 94.50 MCA 322.63 SMA 116.07 ECC .46293 INC 4.5032 V1 30.004
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.419 GAP 27.27 AZP 93.58 TAL 146.47 TAP 109.10 RCA 62.34 APO 169.80 V2 35.261
 RC 218.330 GL -9.14 GP -10.54 ZAL 36.55 ZAP 165.28 ETS 227.59 ZAE 131.12 ETE 189.05 ZAC 146.35 ETC 12.37 CLP 169.66

PLANETOCENTRIC CONIC

C3 134.121 VHL 11.581 DLA 8.48 RAL 131.62 RAD 6570.4 VEL 15.983 PTH 2.82 VHP 17.259 DPA 12.11 RAP 120.49 ECC 3.2073
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 0 57 2930.45 -28.25 91.36 29.70 88.03 8 49 48 2330.4 -28.23 82.70
 90.00 22 7 12 5042.15 23.56 222.41 21.71 73.82 23 31 14 4442.2 21.11 214.59
 100.00 9 26 25 2654.82 -29.85 71.15 29.75 88.42 10 10 40 2054.8 -29.75 62.34
 100.00 23 24 26 4793.01 25.09 203.59 21.21 73.20 24 44 19 4193.0 22.55 195.71
 110.00 10 44 2 2411.89 -34.18 52.79 29.85 89.49 11 24 14 1811.9 -33.87 43.56
 110.00 0 27 13 4608.70 29.21 188.13 19.73 71.41 1 44 2 4008.7 26.40 180.08

DIFFERENTIAL CORRECTIONS

TDE-3.7658 TRA 9.6427 TC3 -.4029 BAU .7224
 RDE .5116 RRA .2417 RC3 -.0012 FAU-.00089
 FDE -.7376 FRA 1.9347 FC3 .0057 BSP 17692
 BOE 3.8004 BRA 9.6457 BC3 .4029 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 5254.2 SGR 280.5 SG3 89.4
 RRT .0775 RRF .0848 RTF .9817
 SGB 5261.7 R23 .0085 R13 .9817
 SG1 5254.3 SG2 279.6 THA .24

ORBIT DETERMINATION ACCURACY

ST 2359.2 SR 255.7 SS 895.4
 CRT -.6947 CRS .6863 CST -.9999
 LSA 2465.9 MSA 183.7 SSA 8.6
 EL1 2365.9 EL2 183.4 ALF 175.67

LAUNCH DATE MAR 8 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 10 1969

HELIOCENTRIC CONIC

DISTANCE 604.606

RL 148.50 LAL .00 LOL 167.25 VL 25.348 GAL 25.03 AZL 95.07 MCA 325.86 SMA 115.92 ECC .49385 INC 5.0673 V1 30.004
 RP 107.47 LAP 2.84 LOP 133.21 VP 36.399 GAP 29.32 AZP 94.20 TAL 146.07 TAP 111.93 RCA 58.67 APO 173.17 V2 35.260
 RC 219.714 GL -9.22 GP -10.42 ZAL 35.79 ZAP 164.55 ETS 223.46 ZAE 130.52 ETE 188.77 ZAC 144.54 ETC 12.34 CLP 168.26

PLANETOCENTRIC CONIC

C3 160.437 VHL 12.666 DLA 8.19 RAL 132.37 RAD 6570.7 VEL 16.786 PTH 2.90 VHP 18.504 DPA 11.92 RAP 122.34 ECC 3.6404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 6 14 2953.80 -28.19 93.07 32.82 87.18 8 55 28 2353.8 -28.28 84.40
 90.00 22 7 56 5084.11 24.32 225.24 24.90 75.04 23 32 40 4484.1 22.03 217.32
 100.00 9 31 32 2678.66 -29.80 72.92 32.91 87.49 10 16 11 2078.7 -29.83 64.11
 100.00 23 25 19 4834.48 25.88 206.42 24.43 74.49 24 45 53 4234.5 23.50 198.43
 110.00 10 48 50 2436.81 -34.15 54.74 33.09 88.34 11 29 26 1836.8 -34.00 45.50
 110.00 0 28 27 4649.10 30.06 190.97 23.05 72.90 1 45 56 4049.1 27.42 182.77

DIFFERENTIAL CORRECTIONS

TDE-4.1368 TRA10.5312 TC3 -.2604 BAU .3584
 RDE .5437 RRA .2054 RC3 .0003 FAU-.00331
 FDE -.7924 FRA 2.0752 FC3 .0179 BSP 17508
 BOE 4.1724 BRA10.5332 BC3 .2604 FSP -293

MID-COURSE EXECUTION ACCURACY

SGT 5205.8 SGR 264.1 SG3 87.7
 RRT -.0076 RRF .0022 RTF .9853
 SGB 5212.5 R23 -.0098 R13 -.9853
 SG1 5205.8 SG2 264.1 THA 179.98

ORBIT DETERMINATION ACCURACY

ST 2363.6 SR 248.5 SS 731.6
 CRT -.7173 CRS .7077 CST -.9998
 LSA 2480.6 MSA 173.1 SSA 8.0
 EL1 2370.3 EL2 172.6 ALF 175.66

LAUNCH DATE MAR 8 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 12 1969

HELIOCENTRIC CONIC

DISTANCE 603.807

RL 148.50 LAL .00 LOL 167.25 VL 25.323 GAL 27.79 AZL 95.73 MCA 329.09 SMA 115.79 ECC .52903 INC 5.7338 V1 30.004
 RP 107.47 LAP 2.94 LOP 136.46 VP 36.381 GAP 31.70 AZP 94.92 TAL 145.98 TAP 115.07 RCA 54.54 APO 177.05 V2 35.260
 RC 221.070 GL -9.26 GP -10.30 ZAL 35.26 ZAP 163.24 ETS 219.46 ZAE 129.77 ETE 188.46 ZAC 142.88 ETC 12.34 CLP 166.70

PLANETOCENTRIC CONIC

C3 193.462 VHL 13.909 DLA 8.00 RAL 132.89 RAD 6571.1 VEL 17.742 PTH 2.99 VHP 19.943 DPA 11.74 RAP 124.03 ECC 4.1839
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 9 49 2978.71 -28.09 94.88 35.64 86.28 8 59 28 2378.7 -28.31 86.22
 90.00 22 8 31 5121.36 24.96 227.79 27.75 76.17 23 33 52 4521.4 22.81 219.78
 100.00 9 35 2 2703.90 -29.71 74.79 35.76 86.51 10 20 6 2103.9 -29.87 65.99
 100.00 23 26 0 4871.40 26.53 208.97 27.31 75.69 24 47 11 4271.4 24.30 200.88
 110.00 10 52 5 2462.75 -34.08 56.76 36.04 87.14 11 33 8 1862.7 -34.10 47.52
 110.00 0 29 21 4685.31 30.75 193.56 26.02 74.29 1 47 27 4085.3 28.29 185.23

DIFFERENTIAL CORRECTIONS

TDE-4.5417 TRA11.4997 TC3 -.1372 BAU .3549
 RDE .5856 RRA .1556 RC3 .0007 FAU-.00624
 FDE -.8541 FRA 2.2326 FC3 .0279 BSP 17428
 BOE 4.5793 BRA11.5008 BC3 .1372 FSP -289

MID-COURSE EXECUTION ACCURACY

SGT 5150.7 SGR 249.8 SG3 86.1
 RRT -.1108 RRF -.0990 RTF .9884
 SGB 5156.7 R23 -.0108 R13 -.9884
 SG1 5150.7 SG2 248.2 THA 179.69

ORBIT DETERMINATION ACCURACY

ST 2357.9 SR 242.0 SS 773.3
 CRT -.7421 CRS .7316 CST -.9998
 LSA 2488.0 MSA 162.5 SSA 7.4
 EL1 2364.8 EL2 161.8 ALF 175.62

LAUNCH DATE MAR 8 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 14 1969

HELIOCENTRIC CONIC

DISTANCE 601.324

RL 148.50 LAL .00 LOL 167.25 VL 25.302 GAL 30.96 AZL 96.54 MCA 332.31 SMA 115.69 ECC .56906 INC 6.5389 V1 30.004
 RP 107.48 LAP 3.03 LOP 139.71 VP 36.365 GAP 34.47 AZP 95.80 TAL 146.27 TAP 118.58 RCA 49.85 APO 181.52 V2 35.258
 RC 222.400 GL -9.27 GP -10.18 ZAL 35.00 ZAP 161.90 ETS 215.59 ZAE 128.82 ETE 188.10 ZAC 141.41 ETC 12.37 CLP 164.95

PLANETOCENTRIC CONIC

C3 235.328 VHL 15.340 DLA 7.92 RAL 133.15 RAD 6571.4 VEL 18.885 PTH 3.07 VHP 21.618 DPA 11.59 RAP 125.53 ECC 4.8729
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 11 30 3005.22 -27.96 96.81 38.10 85.32 9 1 36 2405.2 -28.31 88.16
 90.00 22 8 54 5153.19 25.46 229.99 30.18 77.16 23 34 47 4553.2 23.43 221.90
 100.00 9 36 40 2730.55 -29.58 76.76 38.25 85.48 10 22 11 2130.5 -29.89 67.97
 100.00 23 26 25 4903.09 27.04 211.19 29.77 76.75 24 48 9 4303.1 24.95 203.01
 110.00 10 53 38 2489.70 -33.97 58.86 36.64 85.90 11 35 7 1889.7 -34.16 49.62
 110.00 0 29 53 4716.70 31.31 195.84 28.56 75.53 1 48 30 4116.7 29.01 187.39

DIFFERENTIAL CORRECTIONS

TDE-4.9757 TRA12.5808 TC3 -.0308 BAU .0969
 RDE .6327 RRA .0887 RC3 .0001 FAU-.00994
 FDE -.9226 FRA 2.4114 FC3 .0366 BSP 17321
 BOE 5.0158 BRA12.5611 BC3 .0308 FSP -285

MID-COURSE EXECUTION ACCURACY

SGT 5089.0 SGR 238.7 SG3 84.6
 RRT -.2311 RRF -.2181 RTF .9910
 SGB 5094.6 R23 -.0117 R13 -.9910
 SG1 5089.3 SG2 232.2 THA 179.38

ORBIT DETERMINATION ACCURACY

ST 2339.4 SR 236.5 SS 820.9
 CRT -.7679 CRS .7570 CST -.9998
 LSA 2485.9 MSA 152.0 SSA 6.9
 EL1 2346.5 EL2 151.1 ALF 175.54

LAUNCH DATE MAR 9 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 18 1969

HELIOCENTRIC CONIC

DISTANCE 204.712

RL 148.54 LAL .00 LOL 168.25 VL 29.162 GAL -13.84 AZL 90.30 MCA 93.26 SMA 141.71 ECC .24366 INC .3024 VI 29.996
 RP 108.68 LAP -.30 LOP 261.50 VP 38.803 GAP -4.19 AZP 89.98 TAL 245.09 TAP 338.35 RCA 107.18 APO 176.24 V2 34.867
 RC 69.360 GL -1.13 GP 25.43 ZAL 167.22 ZAP 55.61 ETS 343.56 ZAE 153.34 ETE 59.76 ZAC 113.23 ETC 152.54 CLP -51.28

PLANETOCENTRIC CONIC

C3 58.009 VHL 7.616 CLA -.65 RAL 1.34 RAD 6569.1 VEL 13.393 PTH 2.45 VHP 5.342 OPA 32.44 RAP 17.71 ECC 1.9547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 26 14 2459.18 -24.65 57.59 240.95 104.39 1 7 13 1859.2 -22.44 49.62
 90.00 12 14 42 5143.17 25.30 229.29 241.47 76.84 13 40 25 4543.2 23.24 221.23
 100.00 1 47 16 2197.76 -26.01 37.97 240.55 105.28 2 23 54 1597.8 -23.66 29.96
 100.00 13 36 21 4879.83 26.67 209.56 241.10 75.97 14 57 41 4279.8 24.47 201.45
 110.00 2 54 50 1986.29 -29.67 20.69 239.32 107.80 3 27 56 1386.3 -26.95 12.56
 110.00 14 45 17 4664.06 30.35 192.04 239.96 73.46 16 3 1 4064.1 27.79 183.78

DIFFERENTIAL CORRECTIONS

TDE -.2287 TRA -.5344 TC3 .0836 BAU .2038
 RDE -.3158 RRA .4226 RC3 .2491 FAU .08424
 FDE -.9847 FRA-1.0494 FC3-1.2571 BSP 1213
 BDE .3899 BRA .6813 BC3 .2627 FSP -541

MID-COURSE EXECUTION ACCURACY

SGT 455.5 SGR 549.1 SG3 190.1
 RRT -.1544 RRF -.6637 RTF .2006
 SGB 713.4 R23 .0837 R13 -.6658
 SG1 561.5 SG2 440.0 THA 109.70

ORBIT DETERMINATION ACCURACY

ST 210.2 SR 256.2 SS 359.9
 CRT .5462 CRS -.7643 CST -.9507
 LSA 458.6 MSA 169.1 SSA 21.6
 EL1 293.7 EL2 153.6 ALF 55.03

LAUNCH DATE MAR 9 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 211.292

RL 148.54 LAL .00 LOL 168.25 VL 29.176 GAL -13.69 AZL 90.49 MCA 96.42 SMA 141.84 ECC .24101 INC .4919 VI 29.996
 RP 108.72 LAP -.49 LOP 264.67 VP 38.805 GAP -3.51 AZP 89.95 TAL 245.33 TAP 341.76 RCA 107.65 APO 176.02 V2 34.858
 RC 71.560 GL -1.85 GP 26.72 ZAL 167.26 ZAP 60.19 ETS 345.73 ZAE 153.20 ETE 67.01 ZAC 111.25 ETC 153.09 CLP -56.18

PLANETOCENTRIC CONIC

C3 56.902 VHL 7.543 CLA -1.35 RAL 1.52 RAD 6569.0 VEL 13.351 PTH 2.44 VHP 5.129 OPA 32.89 RAP 15.37 ECC 1.9365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 32 13 2432.47 -24.19 55.77 240.52 105.19 1 12 45 1832.5 -21.87 47.87
 90.00 12 10 10 5160.44 25.56 230.49 241.60 77.39 13 36 11 4560.4 23.57 222.39
 100.00 1 52 56 2172.11 -25.54 36.21 240.10 106.09 2 29 8 1572.1 -23.09 28.27
 100.00 13 32 9 4896.03 26.93 210.69 241.25 76.51 14 53 45 4296.0 24.80 202.54
 110.00 2 59 44 1963.01 -29.18 19.06 238.82 108.65 3 32 27 1363.0 -26.35 11.01
 110.00 14 41 50 4677.89 30.62 193.03 240.14 74.00 15 59 48 4077.9 28.12 184.72

DIFFERENTIAL CORRECTIONS

TDE -.2490 TRA -.5764 TC3 .0489 BAU .2147
 RDE -.2886 RRA .4355 RC3 .2779 FAU .09001
 FDE-1.0936 FRA-1.1114 FC3-1.3695 BSP 1353
 BDE .3812 BRA .7225 BC3 .2822 FSP -592

MID-COURSE EXECUTION ACCURACY

SGT 482.7 SGR 577.4 SG3 205.8
 RRT -.2602 RRF -.7009 RTF .3254
 SGB 752.6 R23 .1101 R13 -.7079
 SG1 609.4 SG2 441.6 THA 117.67

ORBIT DETERMINATION ACCURACY

ST 230.3 SR 240.9 SS 385.9
 CRT .5126 CRS -.7443 CST -.9489
 LSA 479.6 MSA 171.8 SSA 21.6
 EL1 290.0 EL2 164.3 ALF 47.51

LAUNCH DATE MAR 9 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 217.828

RL 148.54 LAL .00 LOL 168.25 VL 29.180 GAL -13.54 AZL 90.68 MCA 99.59 SMA 141.88 ECC .23855 INC .6835 VI 29.996
 RP 108.74 LAP -.67 LOP 267.84 VP 38.800 GAP -2.87 AZP 89.89 TAL 245.42 TAP 345.02 RCA 108.03 APO 175.72 V2 34.848
 RC 73.792 GL -2.60 GP 28.00 ZAL 167.16 ZAP 64.85 ETS 347.97 ZAE 152.76 ETE 74.55 ZAC 109.17 ETC 153.77 CLP -61.23

PLANETOCENTRIC CONIC

C3 55.856 VHL 7.474 CLA -2.05 RAL 1.79 RAD 6569.0 VEL 13.312 PTH 2.43 VHP 4.954 OPA 33.25 RAP 12.91 ECC 1.9192
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 38 27 2406.23 -23.71 54.00 240.20 105.95 1 18 33 1806.2 -21.30 46.16
 90.00 12 6 2 5177.55 25.81 231.68 241.83 77.94 13 32 20 4577.6 23.89 223.54
 100.00 1 58 50 2146.92 -25.05 34.50 239.77 106.86 2 34 37 1546.9 -22.50 26.63
 100.00 13 28 20 4912.10 27.18 211.82 241.49 77.05 14 50 12 4312.1 25.12 203.62
 110.00 3 4 54 1940.15 -28.67 17.47 238.44 109.47 3 37 14 1340.2 -25.75 9.51
 110.00 14 38 47 4691.63 30.87 194.02 240.42 74.53 15 56 58 4091.6 28.44 185.66

DIFFERENTIAL CORRECTIONS

TDE -.2742 TRA -.6236 TC3 .0081 BAU .2298
 RDE -.2590 RRA .4467 RC3 .3076 FAU .09538
 FDE-1.2031 FRA-1.1637 FC3-1.4783 BSP 1543
 BDE .3772 BRA .7671 BC3 .3077 FSP -647

MID-COURSE EXECUTION ACCURACY

SGT 522.6 SGR 606.8 SG3 220.8
 RRT -.3678 RRF -.7343 RTF .4450
 SGB 800.9 R23 .1260 R13 -.7475
 SG1 668.3 SG2 441.3 THA 123.91

ORBIT DETERMINATION ACCURACY

ST 254.5 SR 224.0 SS 412.0
 CRT .4734 CRS -.7172 CST -.9480
 LSA 504.2 MSA 173.4 SSA 21.7
 EL1 292.3 EL2 171.8 ALF 37.43

LAUNCH DATE MAR 9 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 224.319

RL 148.54 LAL .00 LOL 168.25 VL 29.176 GAL -13.40 AZL 90.88 MCA 102.76 SMA 141.84 ECC .23624 INC .8787 VI 29.996
 RP 108.77 LAP -.86 LOP 271.01 VP 38.789 GAP -2.26 AZP 89.81 TAL 245.38 TAP 348.14 RCA 108.33 APO 175.34 V2 34.839
 RC 76.053 GL -3.37 GP 29.25 ZAL 166.95 ZAP 69.54 ETS 350.29 ZAE 151.99 ETE 82.14 ZAC 107.05 ETC 154.55 CLP -66.39

PLANETOCENTRIC CONIC

C3 54.856 VHL 7.406 CLA -2.75 RAL 2.13 RAD 6569.0 VEL 13.275 PTH 2.43 VHP 4.813 OPA 33.53 RAP 10.36 ECC 1.9028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 59 2380.22 -23.21 52.26 239.99 106.69 1 24 39 1780.2 -20.71 44.48
 90.00 12 2 15 5194.66 26.05 232.88 242.15 78.49 13 28 49 4594.7 24.20 224.70
 100.00 2 5 3 2121.96 -24.55 32.81 239.54 107.61 2 40 25 1522.0 -21.91 25.01
 100.00 13 24 52 4928.16 27.42 212.96 241.82 77.60 14 47 0 4328.2 25.43 204.72
 110.00 3 10 21 1917.52 -28.15 15.92 238.16 110.25 3 42 19 1317.5 -25.13 8.05
 110.00 14 36 3 4705.36 31.11 195.01 240.79 75.07 15 54 29 4105.4 28.75 186.61

DIFFERENTIAL CORRECTIONS

TDE -.3063 TRA -.6768 TC3 -.0399 BAU .2486
 RDE -.2287 RRA .4542 RC3 .3366 FAU .09983
 FDE-1.3037 FRA-1.1968 FC3-1.5756 BSP 1762
 BDE .3822 BRA .8151 BC3 .3390 FSP -691

MID-COURSE EXECUTION ACCURACY

SGT 578.3 SGR 635.4 SG3 233.8
 RRT -.4680 RRF -.7627 RTF .5514
 SGB 859.1 R23 .1369 R13 -.7819
 SG1 737.9 SG2 440.0 THA 129.30

ORBIT DETERMINATION ACCURACY

ST 284.4 SR 206.5 SS 436.0
 CRT .4307 CRS -.6835 CST -.9485
 LSA 532.0 MSA 173.6 SSA 21.7
 EL1 305.7 EL2 173.4 ALF 26.47

LAUNCH DATE MAR 9 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 230.767

RL 148.54 LAL .00 LOL 168.25 VL 29.163 GAL -13.26 AZL 91.08 HCA 105.92 SMA 141.72 ECC .23406 INC 1.0786 V1 29.996
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.771 GAP -1.68 AZP 89.70 TAL 245.20 TAP 351.12 RCA 108.55 APO 174.89 V2 34.831
 RC 78.340 GL -4.17 GP 30.45 ZAL 166.62 ZAP 74.22 ETS 352.70 ZAE 150.87 ETE 89.52 ZAC 104.91 ETC 155.42 CLP -71.62

PLANETOCENTRIC CONIC

C3 53.894 VHL 7.341 CLA -3.44 RAL 2.55 RAD 6568.9 VEL 13.238 PTH 2.42 VHP 4.707 DPA 33.73 RAP 7.79 ECC 1.8870
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 51 51 2354.20 -22.69 50.53 239.87 107.41 1 31 5 1754.2 -20.10 42.81
 90.00 11 58 44 5211.95 26.28 234.09 242.55 79.06 13 25 36 4611.9 24.50 225.87
 100.00 2 11 35 2097.00 -24.02 31.14 239.40 108.34 2 46 32 1497.0 -21.29 23.41
 100.00 13 21 41 4944.39 27.65 214.11 242.24 78.16 14 44 5 4344.4 25.74 205.83
 110.00 3 16 8 1894.91 -27.60 14.38 237.98 111.01 3 47 43 1294.9 -24.50 6.59
 110.00 14 33 37 4719.23 31.35 196.02 241.25 75.63 15 52 16 4119.2 29.06 187.57

DIFFERENTIAL CORRECTIONS

TDE -.3441 TRA -.7338 TC3 -.0937 BAU .2717
 RDE -.1969 RRA .4587 RC3 .3652 FAU .10347
 FDE -1.3948 FRA -1.2156 FC3 -1.6620 BSP .2025
 BDE .3964 BRA .8653 BC3 .3770 FSP -734

MID-COURSE EXECUTION ACCURACY

SGT 648.2 SGR 663.1 SG3 245.1
 RRT -.5542 RRF -.7876 RTF .6384
 SGB 927.3 R23 .1442 R13 -.8113
 SG1 817.6 SG2 437.6 THA 133.83

ORBIT DETERMINATION ACCURACY

ST 319.0 SR 188.2 SS 459.7
 CRT .3776 CRS -.6383 CST -.9497
 LSA 564.1 MSA 172.5 SSA 21.6
 EL1 329.8 EL2 168.6 ALF 17.18

LAUNCH DATE MAR 9 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 237.172

RL 148.54 LAL .00 LOL 168.25 VL 29.142 GAL -13.11 AZL 91.28 HCA 109.09 SMA 141.54 ECC .23196 INC 1.2848 V1 29.996
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.749 GAP -1.13 AZP 89.58 TAL 244.90 TAP 353.99 RCA 108.71 APO 174.37 V2 34.824
 RC 80.651 GL -5.02 GP 31.59 ZAL 166.18 ZAP 78.83 ETS 355.20 ZAE 149.44 ETE 96.47 ZAC 102.82 ETC 156.34 CLP -76.86

PLANETOCENTRIC CONIC

C3 52.964 VHL 7.278 CLA -4.15 RAL 3.05 RAD 6568.9 VEL 13.203 PTH 2.41 VHP 4.632 DPA 33.87 RAP 5.26 ECC 1.8716
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 6 2327.93 -22.15 48.79 239.84 108.11 1 37 54 1727.9 -19.47 41.14
 90.00 11 55 26 5229.60 26.50 235.34 243.04 79.64 13 22 36 4629.6 24.80 227.08
 100.00 2 18 30 2071.80 -23.47 29.47 239.36 109.06 2 53 2 1471.8 -20.66 21.81
 100.00 13 18 43 4960.96 27.88 215.29 242.75 78.75 14 41 24 4361.0 26.04 206.97
 110.00 3 22 17 1872.11 -27.04 12.85 237.89 111.76 3 53 29 1272.1 -23.84 5.15
 110.00 14 31 25 4733.42 31.59 197.06 241.80 76.20 15 50 19 4133.4 29.37 188.56

DIFFERENTIAL CORRECTIONS

TDE -.3888 TRA -.7946 TC3 -.1534 BAU .2979
 RDE -.1652 RRA .4582 RC3 .3917 FAU .10585
 FDE -1.4786 FRA -1.2120 FC3 -1.7302 BSP .2313
 BDE .4225 BRA .9172 BC3 .4207 FSP -764

MID-COURSE EXECUTION ACCURACY

SGT 732.8 SGR 687.6 SG3 253.6
 RRT -.6238 RRF -.8080 RTF .7061
 SGB 1004.9 R23 .1507 R13 -.8349
 SG1 906.0 SG2 434.7 THA 137.91

ORBIT DETERMINATION ACCURACY

ST 359.4 SR 170.2 SS 480.7
 CRT .3151 CRS -.5816 CST -.9516
 LSA 599.8 MSA 170.3 SSA 21.6
 EL1 364.3 EL2 159.3 ALF 10.52

LAUNCH DATE MAR 9 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 243.537

RL 148.54 LAL .00 LOL 168.25 VL 29.115 GAL -12.97 AZL 91.50 HCA 112.25 SMA 141.30 ECC .22994 INC 1.4990 V1 29.996
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.722 GAP -.61 AZP 89.43 TAL 244.49 TAP 356.74 RCA 108.81 APO 173.79 V2 34.816
 RC 82.981 GL -5.90 GP 32.67 ZAL 165.62 ZAP 83.32 ETS 357.77 ZAE 147.74 ETE 102.85 ZAC 100.79 ETC 157.28 CLP -82.06

PLANETOCENTRIC CONIC

C3 52.062 VHL 7.215 CLA -4.87 RAL 3.62 RAD 6568.9 VEL 13.169 PTH 2.41 VHP 4.587 DPA 33.97 RAP 2.81 ECC 1.8568
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 6 48 2301.12 -21.57 47.04 239.91 108.80 1 45 9 1701.1 -18.81 39.46
 90.00 11 52 17 5247.88 26.72 236.63 243.63 80.26 13 19 45 4647.9 25.10 228.34
 100.00 2 25 51 2046.11 -22.89 27.79 239.41 109.77 2 59 58 1446.1 -19.99 20.19
 100.00 13 15 55 4978.13 28.10 216.51 243.35 79.36 14 38 53 4378.1 26.34 208.15
 110.00 3 28 51 1848.89 -26.44 11.31 237.90 112.50 3 59 40 1248.9 -23.16 3.69
 110.00 14 29 25 4748.11 31.82 198.14 242.44 76.80 15 48 33 4148.1 29.68 189.59

DIFFERENTIAL CORRECTIONS

TDE -.4397 TRA -.8571 TC3 -.2176 BAU .3271
 RDE -.1326 RRA .4538 RC3 .4166 FAU .10718
 FDE -1.5489 FRA -1.1928 FC3 -1.7824 BSP .2635
 BDE .4593 BRA .9698 BC3 .4700 FSP -791

MID-COURSE EXECUTION ACCURACY

SGT 828.9 SGR 709.5 SG3 259.7
 RRT -.6786 RRF -.8258 RTF .7572
 SGB 1091.0 R23 .1566 R13 -.8539
 SG1 1002.3 SG2 431.0 THA 141.48

ORBIT DETERMINATION ACCURACY

ST 405.0 SR 152.3 SS 501.3
 CRT .2329 CRS -.5044 CST -.9539
 LSA 640.4 MSA 167.1 SSA 21.5
 EL1 406.8 EL2 147.4 ALF 5.76

LAUNCH DATE MAR 9 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 249.861

RL 148.54 LAL .00 LOL 168.25 VL 29.082 GAL -12.82 AZL 91.72 HCA 115.41 SMA 141.01 ECC .22798 INC 1.7230 V1 29.996
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.691 GAP -.12 AZP 89.26 TAL 243.97 TAP 359.38 RCA 108.86 APO 173.16 V2 34.810
 RC 85.328 GL -6.84 GP 33.69 ZAL 164.96 ZAP 87.65 ETS .42 ZAE 145.83 ETE 108.59 ZAC 98.89 ETC 158.21 CLP -87.18

PLANETOCENTRIC CONIC

C3 51.186 VHL 7.154 CLA -5.61 RAL 4.27 RAD 6568.9 VEL 13.136 PTH 2.40 VHP 4.570 DPA 34.06 RAP .49 ECC 1.8424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 15 2 2273.51 -20.95 45.25 240.07 109.49 1 52 55 1673.5 -18.11 37.73
 90.00 11 49 14 5267.07 26.93 237.99 244.30 80.91 13 17 1 4667.1 25.40 229.66
 100.00 2 33 43 2019.67 -22.27 26.07 239.55 110.47 3 7 23 1419.7 -19.29 18.54
 100.00 13 13 14 4996.15 28.32 217.81 244.04 80.00 14 36 30 4396.1 26.65 209.40
 110.00 3 35 53 1825.04 -25.81 9.74 238.00 113.23 4 6 18 1225.0 -22.44 2.21
 110.00 14 27 33 4763.54 32.06 199.29 243.18 77.44 15 46 56 4163.5 30.00 190.68

DIFFERENTIAL CORRECTIONS

TDE -.4973 TRA -.9203 TC3 -.2858 BAU .3583
 RDE -.1005 RRA .4442 RC3 .4387 FAU .10725
 FDE -1.6031 FRA -1.1533 FC3 -1.8139 BSP .2976
 BDE .5074 BRA 1.0220 BC3 .5235 FSP -806

MID-COURSE EXECUTION ACCURACY

SGT 935.1 SGR 726.8 SG3 262.7
 RRT -.7201 RRF -.8405 RTF .7948
 SGB 1184.3 R23 .1633 R13 -.8686
 SG1 1104.7 SG2 426.9 THA 144.74

ORBIT DETERMINATION ACCURACY

ST 456.2 SR 135.4 SS 519.6
 CRT .1295 CRS -.4041 CST -.9563
 LSA 685.2 MSA 163.0 SSA 21.3
 EL1 456.6 EL2 134.2 ALF 2.41

LAUNCH DATE MAR 9 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 256.147

RL 148.54 LAL .00 LOL 168.25 VL 29.043 GAL -12.67 AZL 91.96 HCA 118.57 SMA 140.67 ECC .22608 INC 1.9590 V1 29.996
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.657 GAP .35 AZP 89.06 TAL 243.36 TAP 1.93 RCA 108.87 APO 172.48 V2 34.804
 RC 87.691 GL -7.85 GP 34.66 ZAL 164.18 ZAP 91.78 ETS 3.12 ZAE 143.77 ETE 113.67 ZAC 97.12 ETC 159.09 CLP -92.16

PLANETOCENTRIC CONIC

C3 50.340 VHL 7.095 OLA -6.39 RAL 4.99 RAD 6568.9 VEL 13.104 PTH 2.39 VHP 4.580 DPA 34.17 RAP 358.33 ECC 1.8285
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 52 2244.78 -20.29 43.40 240.31 110.19 2 1 17 1644.8 -17.36 35.95
 90.00 11 46 11 5287.51 27.14 239.45 245.08 81.61 13 14 18 4687.5 25.70 231.08
 100.00 2 42 10 1992.18 -21.61 24.30 239.78 111.17 3 15 22 1392.2 -18.54 16.85
 100.00 13 10 34 5015.34 28.54 219.19 244.84 80.70 14 34 9 4415.3 26.96 210.75
 110.00 3 43 28 1800.28 -25.14 8.14 238.18 113.97 4 13 28 1200.3 -21.68 .69
 110.00 14 25 46 4780.00 32.29 200.51 244.02 78.13 15 45 26 4180.0 30.32 191.85

DIFFERENTIAL CORRECTIONS

TDE -.5613 TRA -1.9828 TC3 -.3568 BAU .3908
 RDE -.0683 RRA .4303 RC3 .4581 FAU .10620
 FDE -1.6444 FRA -1.0990 FC3 -1.8263 BSP 3336
 BDE .5654 BRA 1.0729 BC3 .5806 FSP -813

MID-COURSE EXECUTION ACCURACY

SGT 1048.6 SGR 740.1 SG3 263.2
 RRT -.7515 RRF -.8533 RTF .8225
 SGB 1283.5 R23 .1707 R13 -.8800
 SGI 1212.0 SG2 422.4 THA 147.66

ORBIT DETERMINATION ACCURACY

ST 512.9 SR 120.1 SS 536.9
 CRT -.0067 CRS -.2679 CST -.9587
 LSA 735.0 MSA 158.3 SSA 21.2
 EL1 512.9 EL2 120.1 ALF 179.90

LAUNCH DATE MAR 9 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 262.397

RL 148.54 LAL .00 LOL 168.25 VL 28.999 GAL -12.52 AZL 92.21 HCA 121.72 SMA 140.30 ECC .22422 INC 2.2095 V1 29.996
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.620 GAP .80 AZP 88.84 TAL 242.66 TAP 4.38 RCA 108.84 APO 171.75 V2 34.799
 RC 90.065 GL -8.92 GP 35.61 ZAL 163.29 ZAP 95.66 ETS 5.88 ZAE 141.62 ETE 118.11 ZAC 95.52 ETC 159.92 CLP -96.97

PLANETOCENTRIC CONIC

C3 49.529 VHL 7.038 OLA -7.21 RAL 5.80 RAD 6568.8 VEL 13.073 PTH 2.39 VHP 4.614 DPA 34.32 RAP 356.35 ECC 1.8151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 33 26 2214.58 -19.57 41.48 240.66 110.88 2 10 20 1614.6 -16.55 34.10
 90.00 11 43 4 5309.60 27.35 241.04 245.98 82.38 13 11 33 4709.6 26.02 232.63
 100.00 2 51 19 1963.31 -20.89 22.46 240.11 111.88 3 24 2 1363.3 -17.73 15.08
 100.00 13 7 51 5036.10 28.76 220.70 245.75 81.46 14 31 47 4436.1 27.28 212.21
 110.00 3 51 40 1774.36 -24.41 6.47 238.47 114.71 4 21 14 1174.4 -20.87 359.11
 110.00 14 24 0 4797.82 32.54 201.84 244.99 78.88 15 43 58 4197.8 30.66 193.13

DIFFERENTIAL CORRECTIONS

TDE -.6319 TRA -1.0434 TC3 -.4297 BAU .4241
 RDE -.0359 RRA .4121 RC3 .4749 FAU .10416
 FDE -1.6740 FRA -1.0325 FC3 -1.8207 BSP 3715
 BDE .6329 BRA 1.1219 BC3 .6404 FSP -815

MID-COURSE EXECUTION ACCURACY

SGT 1167.7 SGR 749.7 SG3 261.2
 RRT -.7754 RRF -.8645 RTF .8430
 SGB 1387.7 R23 .1791 R13 -.8889
 SGI 1323.3 SG2 417.8 THA 150.28

ORBIT DETERMINATION ACCURACY

ST 575.3 SR 107.5 SS 553.5
 CRT -.1841 CRS -.0838 CST -.9612
 LSA 790.6 MSA 153.0 SSA 20.9
 EL1 575.7 EL2 105.6 ALF 177.96

LAUNCH DATE MAR 9 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 268.612

RL 148.54 LAL .00 LOL 168.25 VL 28.951 GAL -12.36 AZL 92.48 HCA 124.88 SMA 139.89 ECC .22241 INC 2.4776 V1 29.996
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.580 GAP 1.23 AZP 88.58 TAL 241.87 TAP 6.75 RCA 108.77 APO 171.00 V2 34.795
 RC 92.449 GL -10.08 GP 36.56 ZAL 162.28 ZAP 99.27 ETS 8.69 ZAE 139.40 ETE 121.95 ZAC 94.08 ETC 160.65 CLP -101.57

PLANETOCENTRIC CONIC

C3 48.758 VHL 6.983 OLA -8.10 RAL 6.69 RAD 6568.8 VEL 13.043 PTH 2.38 VHP 4.671 DPA 34.56 RAP 354.55 ECC 1.8024
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 43 50 2182.50 -18.78 39.46 241.12 111.59 2 20 13 1582.5 -15.68 32.15
 90.00 11 39 46 5333.85 27.56 242.78 247.00 83.23 13 8 40 4733.9 26.34 234.33
 100.00 3 1 16 1932.70 -20.10 20.52 240.55 112.60 3 33 29 1332.7 -16.86 13.23
 100.00 13 5 1 5058.88 28.98 222.35 246.79 82.31 14 29 20 4458.9 27.61 213.82
 110.00 4 0 36 1746.95 -23.62 4.74 238.86 115.46 4 29 43 1147.0 -19.99 357.47
 110.00 14 22 11 4817.39 32.78 203.32 246.09 79.72 15 42 29 4217.4 31.02 194.54

DIFFERENTIAL CORRECTIONS

TDE -.7092 TRA -1.1006 TC3 -.5033 BAU .4570
 RDE -.0044 RRA .3887 RC3 .4880 FAU .10103
 FDE -1.6877 FRA -.9508 FC3 -1.7938 BSP 4087
 BDE .7092 BRA 1.1672 BC3 .7011 FSP -801

MID-COURSE EXECUTION ACCURACY

SGT 1290.2 SGR 753.9 SG3 256.5
 RRT -.7924 RRF -.8740 RTF .8577
 SGB 1494.3 R23 .1893 R13 -.8952
 SGI 1436.1 SG2 413.1 THA 152.71

ORBIT DETERMINATION ACCURACY

ST 643.4 SR 98.8 SS 567.8
 CRT -.3894 CRS .1393 CST -.9635
 LSA 850.9 MSA 147.6 SSA 20.6
 EL1 644.6 EL2 90.9 ALF 176.51

LAUNCH DATE MAR 9 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 274.793

RL 148.54 LAL .00 LOL 168.25 VL 28.899 GAL -12.19 AZL 92.77 HCA 128.03 SMA 139.45 ECC .22064 INC 2.7671 V1 29.996
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.538 GAP 1.63 AZP 88.29 TAL 241.01 TAP 9.04 RCA 108.68 APO 170.21 V2 34.791
 RC 94.840 GL -11.35 GP 37.53 ZAL 161.14 ZAP 102.60 ETS 11.56 ZAE 137.15 ETE 125.25 ZAC 92.82 ETC 161.30 CLP -105.97

PLANETOCENTRIC CONIC

C3 48.042 VHL 6.931 OLA -9.05 RAL 7.68 RAD 6568.8 VEL 13.016 PTH 2.37 VHP 4.751 DPA 34.91 RAP 352.92 ECC 1.7906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 55 17 2148.08 -17.90 37.31 241.70 112.31 2 31 5 1548.1 -14.72 30.08
 90.00 11 36 11 5360.87 27.76 244.73 248.16 84.19 13 5 32 4760.9 26.67 236.24
 100.00 3 12 12 1899.91 -19.23 18.48 241.11 113.34 3 43 52 1299.9 -15.90 11.26
 100.00 13 1 57 5084.27 29.19 224.21 247.98 83.26 14 26 41 4484.3 27.95 215.63
 110.00 4 10 23 1717.72 -22.75 2.91 239.37 116.23 4 39 1 1117.7 -19.04 355.74
 110.00 14 20 15 4839.23 33.04 204.97 247.35 80.67 15 40 54 4239.2 31.40 196.13

DIFFERENTIAL CORRECTIONS

TDE -.7941 TRA -1.1534 TC3 -.5770 BAU .4900
 RDE .0283 RRA .3621 RC3 .4991 FAU .09727
 FDE -1.6950 FRA -.8645 FC3 -1.7528 BSP 4478
 BDE .7946 BRA 1.2089 BC3 .7629 FSP -787

MID-COURSE EXECUTION ACCURACY

SGT 1415.2 SGR 755.7 SG3 250.3
 RRT -.8054 RRF -.8831 RTF .8689
 SGB 1604.3 R23 .2004 R13 -.9002
 SGI 1551.4 SG2 408.6 THA 154.86

ORBIT DETERMINATION ACCURACY

ST 717.9 SR 96.2 SS 582.8
 CRT -.6113 CRS .3959 CST -.9658
 LSA 918.5 MSA 142.1 SSA 20.1
 EL1 720.3 EL2 75.8 ALF 175.27

LAUNCH DATE MAR 9 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 280.942

RL 148.54 LAL .00 LOL 168.25 VL 28.844 GAL -12.02 AZL 93.08 HCA 131.18 SMA 138.98 ECC .21892 INC 3.0826 V1 29.996
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.493 GAP 2.02 AZP 87.97 TAL 240.08 TAP 11.26 RCA 108.56 APO 169.40 V2 34.788
 RC 97.236 GL -12.73 GP 38.56 ZAL 159.85 ZAP 105.61 ETS 14.50 ZAE 134.89 ETE 128.07 ZAC 91.73 ETC 161.85 CLP-110.13

PLANETOCENTRIC CONIC

C3 47.396 VHL 6.884 DLA -10.09 RAL 8.76 RAD 6568.8 VEL 12.991 PTH 2.37 VHP 4.853 DPA 35.40 RAP 351.45 ECC 1.7800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 7 57 2110.77 -16.92 35.01 242.42 113.05 2 43 8 1510.8 -13.66 27.86
 90.00 11 32 11 5391.40 27.95 246.95 249.50 85.28 13 2 2 4791.4 27.01 238.41
 100.00 3 24 18 1864.45 -18.26 16.29 241.81 114.09 3 55 23 1264.4 -14.85 9.16
 100.00 12 58 31 5112.96 29.40 226.32 249.35 84.35 14 23 44 4513.0 28.31 217.68
 110.00 4 21 13 1686.25 -21.79 .97 240.01 117.01 4 49 19 1086.2 -17.99 353.90
 110.00 14 18 6 4863.92 33.29 206.85 248.79 81.76 15 39 10 4263.9 31.80 197.94

DIFFERENTIAL CORRECTIONS

TDE -.8875 TRA-1.2011 TC3 -.6498 BAU .5225
 RDE .0619 RRA .3318 RC3 .5075 FAU .09289
 FDE-1.6946 FRA -.7726 FC3-1.6967 BSP 4881
 BDE .8897 BRA 1.2461 BC3 .8246 FSP -768

MID-COURSE EXECUTION ACCURACY

SGT 1541.8 SGR 754.8 SG3 242.4
 RRT -.8147 RRF -.8917 RTF .8773
 SGB 1716.6 R23 .2129 R13 -.9041
 SG1 1668.3 SG2 404.5 THA 156.81

ORBIT DETERMINATION ACCURACY

ST 799.4 SR 100.9 SS 597.7
 CRT -.7967 CRS .6301 CST -.9681
 LSA 993.7 MSA 137.0 SSA 19.4
 EL1 803.5 EL2 60.6 ALF 174.23

LAUNCH DATE MAR 9 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 287.062

RL 148.54 LAL .00 LOL 168.25 VL 28.786 GAL -11.85 AZL 93.43 HCA 134.34 SMA 138.49 ECC .21723 INC 3.4300 V1 29.996
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.448 GAP 2.38 AZP 87.60 TAL 239.07 TAP 13.41 RCA 108.41 APO 168.58 V2 34.786
 RC 99.636 GL -14.26 GP 39.69 ZAL 158.42 ZAP 108.30 ETS 17.52 ZAE 132.63 ETE 130.45 ZAC 90.78 ETC 162.29 CLP-114.08

PLANETOCENTRIC CONIC

C3 46.842 VHL 6.844 DLA -11.24 RAL 9.96 RAD 6568.8 VEL 12.969 PTH 2.36 VHP 4.978 DPA 36.05 RAP 350.10 ECC 1.7709
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 22 8 2069.87 -15.81 32.52 243.31 113.80 2 56 38 1469.9 -12.46 25.45
 90.00 11 27 34 5426.42 28.12 249.49 251.04 86.55 12 58 0 4826.4 27.35 240.91
 100.00 3 37 50 1825.67 -17.16 13.93 242.68 114.86 4 8 15 1225.7 -13.67 6.88
 100.00 12 54 34 5145.84 29.60 228.74 250.92 85.62 14 20 20 4545.8 28.68 220.06
 110.00 4 33 16 1652.05 -20.72 358.90 240.81 117.82 5 0 48 1052.1 -16.83 351.93
 110.00 14 15 37 4892.23 33.55 209.02 250.46 83.02 15 37 9 4292.2 32.22 200.04

DIFFERENTIAL CORRECTIONS

TDE -.9898 TRA-1.2416 TC3 -.7200 BAU .5534
 RDE .0954 RRA .2966 RC3 .5122 FAU .08780
 FDE-1.6838 FRA -.6732 FC3-1.6227 BSP 5257
 BDE .9944 BRA 1.2766 BC3 .8837 FSP -735

MID-COURSE EXECUTION ACCURACY

SGT 1667.7 SGR 749.7 SG3 232.7
 RRT -.8202 RRF -.8993 RTF .8832
 SGB 1828.5 R23 .2271 R13 -.9066
 SG1 1784.0 SG2 400.9 THA 158.63

ORBIT DETERMINATION ACCURACY

ST 888.0 SR 112.2 SS 611.4
 CRT -.9128 CRS .7967 CST -.9702
 LSA 1075.7 MSA 132.4 SSA 18.6
 EL1 893.9 EL2 45.5 ALF 173.40

LAUNCH DATE MAR 9 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 293.153

RL 148.54 LAL .00 LOL 168.25 VL 28.725 GAL -11.66 AZL 93.82 HCA 137.49 SMA 137.99 ECC .21559 INC 3.8168 V1 29.996
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.401 GAP 2.73 AZP 87.18 TAL 238.01 TAP 15.50 RCA 108.24 APO 167.74 V2 34.784
 RC 102.038 GL -15.95 GP 40.93 ZAL 156.80 ZAP 110.64 ETS 20.65 ZAE 130.35 ETE 132.45 ZAC 89.95 ETC 162.65 CLP-117.82

PLANETOCENTRIC CONIC

C3 46.415 VHL 6.813 DLA -12.52 RAL 11.29 RAD 6568.7 VEL 12.953 PTH 2.36 VHP 5.127 DPA 36.89 RAP 348.83 ECC 1.7639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 38 12 2024.51 -14.55 29.79 244.42 114.56 3 11 56 1424.5 -11.11 22.80
 90.00 11 22 7 5467.18 28.25 252.47 252.82 88.03 12 53 14 4867.2 27.68 243.85
 100.00 3 53 6 1782.83 -15.92 11.36 243.75 115.64 4 22 49 1182.8 -12.34 4.40
 100.00 12 49 54 5184.09 29.76 231.57 252.74 87.10 14 16 18 4584.1 29.04 222.84
 110.00 4 46 50 1614.56 -19.51 356.66 241.82 118.64 5 13 44 1014.6 -15.54 349.79
 110.00 14 12 39 4925.13 33.79 211.56 252.39 84.50 15 34 44 4325.1 32.66 202.51

DIFFERENTIAL CORRECTIONS

TDE-1.1046 TRA-1.2751 TC3 -.7874 BAU .5838
 RDE .1317 RRA .2586 RC3 .5149 FAU .08247
 FDE-1.6723 FRA -.5757 FC3-1.5382 BSP 5664
 BDE 1.1124 BRA 1.3011 BC3 .9408 FSP -707

MID-COURSE EXECUTION ACCURACY

SGT 1794.7 SGR 744.3 SG3 222.2
 RRT -.8237 RRF -.9070 RTF .8881
 SGB 1942.9 R23 .2418 R13 -.9089
 SG1 1901.6 SG2 398.4 THA 160.24

ORBIT DETERMINATION ACCURACY

ST 986.2 SR 131.0 SS 627.1
 CRT -.9716 CRS .9002 CST -.9724
 LSA 1168.8 MSA 128.7 SSA 17.5
 EL1 994.4 EL2 30.7 ALF 172.64

LAUNCH DATE MAR 9 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 299.217

RL 148.54 LAL .00 LOL 168.25 VL 28.662 GAL -11.47 AZL 94.25 HCA 140.63 SMA 137.47 ECC .21399 INC 4.2530 V1 29.996
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.353 GAP 3.06 AZP 86.71 TAL 236.89 TAP 17.53 RCA 108.05 APO 166.89 V2 34.783
 RC 104.441 GL -17.86 GP 42.35 ZAL 154.97 ZAP 112.63 ETS 23.91 ZAE 128.04 ETE 134.13 ZAC 89.22 ETC 162.91 CLP-121.37

PLANETOCENTRIC CONIC

C3 46.158 VHL 6.794 DLA -13.96 RAL 12.77 RAD 6568.7 VEL 12.943 PTH 2.36 VHP 5.305 DPA 37.95 RAP 347.59 ECC 1.7596
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 56 36 1973.55 -13.09 26.77 245.79 115.34 3 29 30 1373.6 -9.57 19.86
 90.00 11 15 31 5515.35 28.32 255.99 254.88 89.80 12 47 26 4915.4 27.99 247.34
 100.00 4 10 33 1734.93 -14.49 8.52 245.09 116.44 4 39 28 1134.9 -10.82 1.65
 100.00 12 44 14 5229.21 29.87 234.92 254.86 88.86 14 11 24 4629.2 29.39 226.15
 110.00 5 2 15 1573.04 -18.14 354.22 243.07 119.48 5 28 28 973.0 -14.07 347.47
 110.00 14 9 3 4963.86 34.00 214.57 254.66 86.27 15 31 46 4363.9 33.11 205.44

DIFFERENTIAL CORRECTIONS

TDE-1.2329 TRA-1.2988 TC3 -.8491 BAU .6122
 RDE .1687 RRA .2153 RC3 .5130 FAU .07664
 FDE-1.6539 FRA -.4747 FC3-1.4375 BSP 6043
 BDE 1.2444 BRA 1.3165 BC3 .9921 FSP -668

MID-COURSE EXECUTION ACCURACY

SGT 1920.0 SGR 735.7 SG3 210.4
 RRT -.8237 RRF -.9138 RTF .8917
 SGB 2056.1 R23 .2579 R13 -.9103
 SG1 2017.4 SG2 397.0 THA 161.75

ORBIT DETERMINATION ACCURACY

ST 1094.1 SR 154.4 SS 642.4
 CRT -.9927 CRS .9550 CST -.9745
 LSA 1271.7 MSA 126.1 SSA 16.2
 EL1 1104.7 EL2 18.4 ALF 172.02

LAUNCH DATE MAR 9 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 305.254

RL 148.54 LAL .00 LOL 168.25 VL 28.597 GAL -11.28 AZL 94.75 HCA 143.78 SMA 136.95 ECC .21245 INC 4.7518 V1 29.996
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.304 GAP 3.38 AZP 86.16 TAL 235.72 TAP 19.50 RCA 107.85 APO 166.04 V2 34.783
 RC 106.844 GL -20.00 GP 43.97 ZAL 152.90 ZAP 114.22 ETS 27.32 ZAE 125.67 ETE 135.54 ZAC 88.55 ETC 163.12 CLP-124.75

PLANETOCENTRIC CONIC

C3 46.138 VHL 6.792 CLA -15.59 RAL 14.43 RAD 6568.7 VEL 12.942 PTH 2.36 VHP 5.516 DPA 39.24 RAP 346.32 ECC 1.7593
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 3 1915.44 -11.37 23.36 247.52 116.11 3 49 58 1315.4 -7.77 16.53
 90.00 11 7 18 5573.24 28.26 260.22 257.30 91.92 12 40 11 4973.2 28.22 251.56
 100.00 4 30 49 1680.65 -12.82 5.36 246.78 117.24 4 58 50 1080.6 -9.07 358.58
 100.00 12 37 13 5283.27 29.88 238.94 257.35 90.97 14 5 16 4683.3 29.69 230.14
 110.00 5 20 0 1526.60 -16.56 351.55 244.65 120.34 5 45 26 926.6 -12.41 344.90
 110.00 14 4 31 5010.08 34.15 218.17 257.32 88.40 15 28 2 4410.1 33.55 208.98

DIFFERENTIAL CORRECTIONS

TDE-1.3805 TRA-1.3125 TC3 -.9043 BAU .6397
 RDE .2088 RRA .1681 RC3 .5076 FAU .07066
 FDE-1.6358 FRA -.3774 FC3-1.3258 BSP 6442
 BDE 1.3962 BRA 1.3232 BC3 1.0370 FSP -632

MID-COURSE EXECUTION ACCURACY

SGT 2046.0 SGR 726.8 SG3 198.1
 RRT -.8214 RRF -.9204 RTF .8951
 SGB 2171.3 R23 .2736 R13 -.9120
 SG1 2134.6 SG2 397.4 THA 163.13

ORBIT DETERMINATION ACCURACY

ST 1215.0 SR 182.8 SS 659.8
 CRT -.9957 CRS .9823 CST -.9767
 LSA 1389.0 MSA 124.9 SSA 14.7
 EL1 1228.6 EL2 16.8 ALF 171.48

LAUNCH DATE MAR 9 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 311.267

RL 148.54 LAL .00 LOL 168.25 VL 28.531 GAL -11.07 AZL 95.33 HCA 146.92 SMA 136.41 ECC .21095 INC 5.3316 V1 29.996
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.255 GAP 3.68 AZP 85.53 TAL 234.49 TAP 21.41 RCA 107.63 APO 165.19 V2 34.784
 RC 109.246 GL -22.44 GP 45.84 ZAL 150.54 ZAP 115.40 ETS 30.92 ZAE 123.21 ETE 136.74 ZAC 87.90 ETC 163.28 CLP-128.01

PLANETOCENTRIC CONIC

C3 46.452 VHL 6.816 CLA -17.45 RAL 16.30 RAD 6568.7 VEL 12.954 PTH 2.36 VHP 5.770 DPA 40.78 RAP 344.92 ECC 1.7645
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 43 32 1847.90 -9.32 19.46 249.73 116.86 4 14 20 1247.9 -5.64 12.71
 90.00 10 56 46 5644.18 27.99 265.40 260.13 94.50 12 30 50 5044.2 28.32 256.75
 100.00 4 54 45 1618.13 -10.84 1.77 248.92 118.03 5 21 43 1018.1 -7.01 355.07
 100.00 12 28 14 5349.19 29.70 243.83 260.26 93.54 13 57 24 4749.2 29.88 235.03
 110.00 5 40 44 1474.07 -14.73 348.58 246.66 121.20 6 5 18 874.1 -10.49 342.04
 110.00 13 58 45 5066.02 34.17 222.54 260.47 90.98 15 23 11 4466.0 33.93 213.30

DIFFERENTIAL CORRECTIONS

TDE-1.5529 TRA-1.3134 TC3 -.9495 BAU .6654
 RDE .2513 RRA .1149 RC3 .4966 FAU .06443
 FDE-1.6161 FRA -.2820 FC3-1.2007 BSP 6851
 BDE 1.5731 BRA 1.3184 BC3 1.0715 FSP -593

MID-COURSE EXECUTION ACCURACY

SGT 2172.3 SGR 716.3 SG3 185.0
 RRT -.8156 RRF -.9257 RTF .8984
 SGB 2287.4 R23 .2888 R13 -.9138
 SG1 2252.2 SG2 399.8 THA 164.44

ORBIT DETERMINATION ACCURACY

ST 1351.4 SR 214.4 SS 678.8
 CRT -.9910 CRS .9944 CST -.9790
 LSA 1522.3 MSA 125.1 SSA 13.0
 EL1 1368.0 EL2 28.4 ALF 171.06

LAUNCH DATE MAR 9 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 317.256

RL 148.54 LAL .00 LOL 168.25 VL 28.463 GAL -10.86 AZL 96.02 HCA 150.06 SMA 135.87 ECC .20951 INC 6.0181 V1 29.996
 RP 108.94 LAP -3.00 LOP 318.45 VP 38.206 GAP 3.97 AZP 84.78 TAL 233.22 TAP 23.28 RCA 107.40 APO 164.34 V2 34.785
 RC 111.645 GL -25.24 GP 48.03 ZAL 147.82 ZAP 116.13 ETS 34.75 ZAE 120.60 ETE 137.79 ZAC 87.20 ETC 163.44 CLP-131.18

PLANETOCENTRIC CONIC

C3 47.249 VHL 6.874 CLA -19.60 RAL 18.45 RAD 6568.8 VEL 12.985 PTH 2.37 VHP 6.080 DPA 42.59 RAP 343.28 ECC 1.7776
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 41 1767.26 -6.80 14.87 252.61 117.55 4 44 8 1167.3 -3.06 8.19
 90.00 10 42 44 5733.36 27.34 271.84 263.43 97.67 12 18 18 5133.4 28.12 263.26
 100.00 5 23 42 1544.53 -8.46 357.60 251.71 118.78 5 49 27 944.5 -4.55 350.99
 100.00 12 16 24 5431.32 29.20 249.89 263.69 96.69 13 46 56 4831.3 29.82 241.14
 110.00 6 5 25 1413.84 -12.58 345.23 249.25 122.05 6 28 58 813.8 -8.26 338.81
 110.00 13 51 11 5134.77 33.96 227.89 264.22 94.14 15 16 46 4534.8 34.16 218.65

DIFFERENTIAL CORRECTIONS

TDE-1.7568 TRA-1.2967 TC3 -.9790 BAU .6878
 RDE .2943 RRA .0530 RC3 .4768 FAU .05783
 FDE-1.5917 FRA -.1867 FC3-1.0596 BSP 7220
 BDE 1.7813 BRA 1.2978 BC3 1.0889 FSP -545

MID-COURSE EXECUTION ACCURACY

SGT 2296.1 SGR 701.5 SG3 170.8
 RRT -.8042 RRF -.9287 RTF .9015
 SGB 2400.9 R23 .3034 R13 -.9155
 SG1 2366.5 SG2 404.5 THA 165.77

ORBIT DETERMINATION ACCURACY

ST 1504.8 SR 246.5 SS 697.8
 CRT -.9836 CRS .9987 CST -.9813
 LSA 1672.1 MSA 126.8 SSA 11.1
 EL1 1524.2 EL2 43.9 ALF 170.84

LAUNCH DATE MAR 9 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 323.221

RL 148.54 LAL .00 LOL 168.25 VL 28.394 GAL -10.64 AZL 96.85 HCA 153.20 SMA 135.33 ECC .20812 INC 6.8492 V1 29.996
 RP 108.93 LAP -3.08 LOP 321.61 VP 38.156 GAP 4.25 AZP 83.88 TAL 231.90 TAP 25.10 RCA 107.16 APO 163.49 V2 34.787
 RC 114.042 GL -28.46 GP 50.58 ZAL 144.68 ZAP 116.35 ETS 38.85 ZAE 117.79 ETE 138.78 ZAC 86.39 ETC 163.66 CLP-134.36

PLANETOCENTRIC CONIC

C3 48.771 VHL 6.984 CLA -22.07 RAL 20.94 RAD 6568.8 VEL 13.044 PTH 2.38 VHP 6.465 DPA 44.69 RAP 341.25 ECC 1.8026
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 21 1666.63 -3.60 9.21 256.47 118.11 5 22 8 1066.6 .18 2.57
 90.00 10 22 57 5849.85 26.01 280.10 267.22 101.60 12 0 26 5249.8 27.35 271.69
 100.00 5 59 56 1454.96 -5.49 352.61 255.43 119.43 6 24 11 855.0 -1.53 346.06
 100.00 12 0 3 5536.75 28.12 257.54 267.68 100.57 13 32 19 4936.7 29.29 248.93
 110.00 6 35 27 1343.61 -10.01 341.41 252.67 122.86 6 57 51 743.6 -5.61 335.09
 110.00 13 41 1 5220.87 33.34 234.54 268.67 98.03 15 8 2 4620.9 34.09 225.38

DIFFERENTIAL CORRECTIONS

TDE-2.0074 TRA-1.2600 TC3 -.9891 BAU .7078
 RDE .3381 RRA -.0179 RC3 .4475 FAU .05113
 FDE-1.5681 FRA -.0977 FC3 -.9076 BSP 7622
 BDE 2.0357 BRA 1.2602 BC3 1.0856 FSP -500

MID-COURSE EXECUTION ACCURACY

SGT 2421.9 SGR 684.0 SG3 156.2
 RRT -.7864 RRF -.9280 RTF .9058
 SGB 2516.6 R23 .3147 R13 -.9184
 SG1 2482.6 SG2 412.2 THA 167.12

ORBIT DETERMINATION ACCURACY

ST 1681.1 SR 278.0 SS 719.1
 CRT -.9756 CRS .9986 CST -.9838
 LSA 1844.9 MSA 129.8 SSA 9.3
 EL1 1702.9 EL2 60.3 ALF 170.82

LAUNCH DATE MAR 9 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 329.161

RL 148.54 LAL .00 LOL 168.25 VL 28.324 GAL -10.41 AZL 97.88 MCA 156.33 SMA 134.78 ECC .20678 INC 7.8826 V1 .29.996
 RP 108.93 LAP -3.16 LOP 324.78 VP 38.107 GAP 4.51 AZP 82.77 TAL 230.53 TAP 26.87 RCA 106.91 APO 162.65 V2 34.790
 RC 116.435 GL -32.19 GP 53.58 ZAL 141.02 ZAP 116.02 ETS 43.32 ZAE 114.70 ETE 139.85 ZAC 85.39 ETC 164.07 CLP-137.65

PLANETOCENTRIC CONIC

C3 51.425 VHL 7.171 DLA -24.93 RAL 23.88 RAD 6568.9 VEL 13.145 PTH 2.40 VHP 6.960 DPA 47.05 RAP 338.60 ECC 1.8463
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 49 8 1528.59 .85 1.50 261.92 118.31 6 14 37 928.6 4.62 354.86
 90.00 9 51 38 726.27 23.27 313.46 271.32 106.60 10 3 44 126.3 25.33 305.39
 100.00 6 47 55 1338.80 -1.57 346.21 260.57 119.85 7 10 14 738.8 2.41 339.69
 100.00 11 35 32 5679.32 25.93 267.56 272.15 105.41 13 10 11 5079.3 27.80 259.25
 110.00 7 13 13 1259.48 -6.87 336.92 257.29 123.57 7 34 12 659.5 -2.41 330.67
 110.00 13 26 44 5331.42 31.98 242.87 273.89 102.78 14 55 35 4731.4 33.40 233.93

DIFFERENTIAL CORRECTIONS

TDE-2.3219 TRA-1.1932 TC3 -.9702 BAU .7224
 RDE .3752 RRA -.1031 RC3 .4036 FAU .04416
 FDE-1.5408 FRA -.0116 FC3 -.7434 BSP 7989
 BOE 2.3520 BRA 1.1976 BC3 1.0508 FSP -448

MID-COURSE EXECUTION ACCURACY

SGT 2546.1 SGR 658.2 SG3 140.7
 RRT -.7555 RRF -.9192 RTF .9111
 SGB 2629.8 R23 .3224 R13 -.9222
 SG1 2595.6 SG2 423.0 THA 168.64

ORBIT DETERMINATION ACCURACY

ST 1882.2 SR 301.5 SS 740.5
 CRT -.9661 CRS .9952 CST -.9863
 LSA 2040.6 MSA 133.9 SSA 7.6
 EL1 1904.6 EL2 77.0 ALF 171.19

LAUNCH DATE MAR 9 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 335.076

RL 148.54 LAL .00 LOL 168.25 VL 28.253 GAL -10.18 AZL 99.21 MCA 159.46 SMA 134.24 ECC .20550 INC 9.2104 V1 29.996
 RP 108.91 LAP -3.22 LOP 327.95 VP 38.058 GAP 4.76 AZP 81.37 TAL 229.13 TAP 28.59 RCA 106.65 APO 161.82 V2 34.794
 RC 118.823 GL -36.52 GP 57.09 ZAL 136.74 ZAP 115.07 ETS 48.30 ZAE 111.22 ETE 141.23 ZAC 84.09 ETC 164.85 CLP-141.26

PLANETOCENTRIC CONIC

C3 55.949 VHL 7.480 DLA -28.20 RAL 27.43 RAD 6569.0 VEL 13.316 PTH 2.43 VHP 7.618 DPA 49.64 RAP 335.00 ECC 1.9208
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 57 1221.54 10.54 344.15 271.57 116.43 8 2 19 621.5 14.01 337.19
 90.00 8 27 7 1075.02 14.83 335.53 273.66 114.40 8 45 2 475.0 18.00 328.29
 100.00 8 1 36 1157.99 4.55 336.28 268.35 119.58 8 20 54 558.0 8.45 329.67
 100.00 10 50 10 613.80 21.08 304.39 276.45 111.70 11 0 24 13.8 23.84 296.68
 110.00 8 3 6 1153.28 -2.85 331.34 263.77 124.08 8 22 19 553.3 1.64 325.13
 110.00 13 5 10 5479.32 29.25 253.52 279.75 108.53 14 36 29 4879.3 31.50 245.04

DIFFERENTIAL CORRECTIONS

TDE-2.7338 TRA-1.0852 TC3 -.9142 BAU .7303
 RDE .3940 RRA -.2055 RC3 .3428 FAU .03712
 FDE-1.5145 FRA -.0669 FC3 -.5744 BSP 8388
 BOE 2.7621 BRA 1.1045 BC3 .9763 FSP -398

MID-COURSE EXECUTION ACCURACY

SGT 2673.1 SGR 621.3 SG3 124.8
 RRT -.7015 RRF -.8926 RTF .9191
 SGB 2744.3 R23 .3228 R13 -.9281
 SG1 2709.3 SG2 436.9 THA 170.49

ORBIT DETERMINATION ACCURACY

ST 2113.6 SR 306.9 SS 763.8
 CRT -.9519 CRS .9868 CST -.9889
 LSA 2264.0 MSA 138.6 SSA 6.0
 EL1 2133.7 EL2 93.1 ALF 172.11

LAUNCH DATE MAR 9 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 340.961

RL 148.54 LAL .00 LOL 168.25 VL 28.182 GAL -9.93 AZL 100.99 MCA 162.57 SMA 133.69 ECC .20425 INC10.9901 V1 29.996
 RP 108.90 LAP -3.27 LOP 331.12 VP 38.009 GAP 5.00 AZP 79.50 TAL 227.68 TAP 30.25 RCA 106.39 APO 161.00 V2 34.798
 RC 121.206 GL -41.50 GP 61.21 ZAL 131.73 ZAP 113.43 ETS 54.12 ZAE 107.22 ETE 143.35 ZAC 82.34 ETC 166.43 CLP-145.63

PLANETOCENTRIC CONIC

C3 63.778 VHL 7.986 DLA -31.88 RAL 31.82 RAD 6569.2 VEL 13.606 PTH 2.49 VHP 8.534 DPA 52.33 RAP 329.97 ECC 2.0496
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.70 6 22 26 1563.55 13.14 10.85 279.76 119.31 6 48 30 963.5 16.94 3.98
 105.30 10 21 38 796.82 13.15 314.10 279.77 119.31 10 34 55 196.8 16.96 307.23
 74.70 6 22 26 1563.55 13.14 10.85 279.76 119.31 6 48 30 963.5 16.94 3.98
 105.30 10 21 38 796.82 13.15 314.10 279.77 119.31 10 34 55 196.8 16.96 307.23
 110.00 9 17 9 997.13 3.12 323.19 273.53 124.06 9 33 46 397.1 7.57 316.93
 110.00 12 26 6 5699.28 23.60 268.11 285.46 115.48 14 1 5 5099.3 26.83 260.43

DIFFERENTIAL CORRECTIONS

TDE-3.2927 TRA -.9097 TC3 -.8095 BAU .7253
 RDE .3562 RRA -.3316 RC3 .2615 FAU .03000
 FDE-1.4893 FRA .1399 FC3 -.4072 BSP 8778
 BOE 3.3120 BRA .9683 BC3 .8507 FSP -346

MID-COURSE EXECUTION ACCURACY

SGT 2800.5 SGR 564.2 SG3 108.6
 RRT -.5876 RRF -.8152 RTF .9305
 SGB 2856.8 R23 .3135 R13 -.9368
 SG1 2820.6 SG2 453.3 THA 173.07

ORBIT DETERMINATION ACCURACY

ST 2373.9 SR 269.3 SS 788.4
 CRT -.9147 CRS .9594 CST -.9915
 LSA 2511.8 MSA 143.3 SSA 4.6
 EL1 2386.7 EL2 108.2 ALF 174.06

LAUNCH DATE MAR 9 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 346.809

RL 148.54 LAL .00 LOL 168.25 VL 28.111 GAL -9.67 AZL 103.51 MCA 165.65 SMA 133.15 ECC .20302 INC13.5118 V1 29.996
 RP 108.89 LAP -3.32 LOP 334.28 VP 37.960 GAP 5.22 AZP 76.89 TAL 226.19 TAP 31.84 RCA 106.12 APO 160.19 V2 34.803
 RC 123.581 GL -47.14 GP 65.96 ZAL 125.89 ZAP 111.03 ETS 61.58 ZAE 102.49 ETE 147.12 ZAC 79.91 ETC 169.71 CLP-151.75

PLANETOCENTRIC CONIC

C3 78.029 VHL 8.833 DLA -35.84 RAL 37.38 RAD 6569.5 VEL 14.120 PTH 2.57 VHP 9.886 DPA 54.83 RAP 322.80 ECC 2.2842
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.05 5 57 35 1755.16 12.81 25.53 289.01 123.76 6 26 50 1155.2 17.15 18.99
 112.95 11 30 50 700.36 12.82 306.41 289.02 123.76 11 42 30 100.4 17.17 299.87
 67.05 5 57 35 1755.16 12.81 25.53 289.01 123.76 6 26 50 1155.2 17.15 18.99
 112.95 11 30 50 700.36 12.82 306.41 289.02 123.76 11 42 30 100.4 17.17 299.87
 67.05 5 57 35 1755.16 12.81 25.53 289.01 123.76 6 26 50 1155.2 17.15 18.99
 112.95 11 30 50 700.36 12.82 306.41 289.02 123.76 11 42 30 100.4 17.17 299.87

DIFFERENTIAL CORRECTIONS

TDE-4.0781 TRA -.6128 TC3 -.6467 BAU .6951
 RDE .1509 RRA -.4835 RC3 .1607 FAU .02281
 FDE-1.4712 FRA .2107 FC3 -.2531 BSP 9111
 BOE 4.0809 BRA .7805 BC3 .6664 FSP -291

MID-COURSE EXECUTION ACCURACY

SGT 2922.8 SGR 489.7 SG3 92.2
 RRT -.2750 RRF -.5465 RTF .9465
 SGB 2963.5 R23 .2904 R13 -.9487
 SG1 2926.0 SG2 470.3 THA 177.29

ORBIT DETERMINATION ACCURACY

ST 2649.5 SR 152.1 SS 816.3
 CRT -.6011 CRS .6840 CST -.9941
 LSA 2772.6 MSA 147.2 SSA 3.5
 EL1 2651.1 EL2 121.5 ALF 178.02

LAUNCH DATE MAR 9 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 352.602

RL 148.54 LAL .00 LOL 168.25 VL 28.039 GAL -9.40 AZL 107.37 HCA 168.70 SMA 132.62 ECC .20177 INC17.3715 V1 29.996
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.912 GAP 5.42 AZP 72.95 TAL 224.65 TAP 33.35 RCA 105.86 APO 159.37 V2 34.808
 RC 125.948 GL -53.17 GP 71.25 ZAL 119.20 ZAP 107.84 ETS 72.82 ZAE 96.72 ETE 154.84 ZAC 76.45 ETC 176.99 CLP-162.38

PLANETOCENTRIC CONIC

C3 106.457 VHL 10.318 DLA -39.67 RAL 44.55 RAD 6570.0 VEL 15.093 PTH 2.71 VHP 12.040 DPA 56.50 RAP 312.68 ECC 2.7520
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.98 5 55 25 1913.27 11.13 37.22 300.82 128.32 6 27 18 1313.3 16.01 31.11
 119.02 12 30 14 679.03 11.14 303.41 300.83 128.32 12 41 33 79.0 16.02 297.30
 60.98 5 55 25 1913.27 11.13 37.22 300.82 128.32 6 27 18 1313.3 16.01 31.11
 119.02 12 30 14 679.03 11.14 303.41 300.83 128.32 12 41 33 79.0 16.02 297.30
 60.98 5 55 25 1913.27 11.13 37.22 300.82 128.32 6 27 18 1313.3 16.01 31.11
 119.02 12 30 14 679.03 11.14 303.41 300.83 128.32 12 41 33 79.0 16.02 297.30

DIFFERENTIAL CORRECTIONS

TOE-5.1866 TRA -.0797 TC3 -.4280 BAU .6143
 ROE -.5872 RRA -.6181 RC3 .0553 FAU .01569
 FDE-1.4826 FRA .2858 FC3 -.1276 BSP 9488
 BOE 5.2197 BRA .6232 BC3 .4316 FSP -242

MID-COURSE EXECUTION ACCURACY

SGT 3013.1 SGR 564.1 SG3 76.8
 RRT .5083 RRF .2922 RTF .9680
 SGB 3065.4 R23 -.2472 R13 .9643
 SG1 3027.1 SG2 483.5 THA 5.58

ORBIT DETERMINATION ACCURACY

ST 2880.3 SR 352.5 SS 858.9
 CRT .9273 CRS -.8940 CST -.9967
 LSA 3022.6 MSA 149.0 SSA 2.6
 EL1 2898.8 EL2 131.1 ALF 6.49

LAUNCH DATE MAR 9 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 358.294

RL 148.54 LAL .00 LOL 168.25 VL 27.967 GAL -9.10 AZL 113.98 HCA 171.67 SMA 132.09 ECC .20038 INC23.9820 V1 29.996
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.865 GAP 5.59 AZP 66.24 TAL 223.03 TAP 34.69 RCA 105.62 APO 158.55 V2 34.815
 RC 128.306 GL -58.73 GP 76.02 ZAL 111.81 ZAP 103.89 ETS 94.03 ZAE 89.23 ETE 172.83 ZAC 71.20 ETC 194.66 CLP 173.79

PLANETOCENTRIC CONIC

C3 172.451 VHL 13.132 DLA -42.30 RAL 53.73 RAD 6570.9 VEL 17.140 PTH 2.94 VHP 15.857 DPA 56.01 RAP 299.26 ECC 3.8381
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.16 6 15 13 2051.21 7.64 46.10 315.24 131.73 6 49 24 1451.2 12.91 40.40
 122.84 13 23 42 723.38 7.65 304.25 315.26 131.73 13 35 45 123.4 12.93 298.55
 57.16 6 15 13 2051.21 7.64 46.10 315.24 131.73 6 49 24 1451.2 12.91 40.40
 122.84 13 23 42 723.38 7.65 304.25 315.26 131.73 13 35 45 123.4 12.93 298.55
 57.16 6 15 13 2051.21 7.64 46.10 315.24 131.73 6 49 24 1451.2 12.91 40.40
 122.84 13 23 42 723.38 7.65 304.25 315.26 131.73 13 35 45 123.4 12.93 298.55

DIFFERENTIAL CORRECTIONS

TOE-6.2243 TRA .9456 TC3 -.1748 BAU .4031
 ROE-3.1932 RRA -.4038 RC3 -.0054 FAU .00785
 FDE-1.5684 FRA .4000 FC3 -.0394 BSP 9739
 BOE 6.9956 BRA 1.0282 BC3 .1749 FSP -198

MID-COURSE EXECUTION ACCURACY

SGT 2810.1 SGR 1413.5 SG3 63.2
 RRT .9207 RRF .8695 RTF .9916
 SGB 3145.6 R23 -.1871 R13 .9801
 SG1 3105.7 SG2 499.0 THA 25.56

ORBIT DETERMINATION ACCURACY

ST 2720.9 SR 1395.0 SS 942.5
 CRT .9936 CRS -.9881 CST -.9991
 LSA 3196.0 MSA 151.7 SSA 2.0
 EL1 3054.4 EL2 140.0 ALF 27.06

LAUNCH DATE MAR 9 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 363.746

RL 148.54 LAL .00 LOL 168.25 VL 27.895 GAL -8.75 AZL 127.37 HCA 174.41 SMA 131.56 ECC .19850 INC37.3676 V1 29.996
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.818 GAP 5.69 AZP 52.76 TAL 221.26 TAP 35.67 RCA 105.45 APO 157.67 V2 34.821
 RC 130.653 GL -60.81 GP 74.66 ZAL 104.18 ZAP 99.42 ETS 133.57 ZAE 78.26 ETE 209.39 ZAC 62.22 ETC 231.37 CLP 128.24

PLANETOCENTRIC CONIC

C3 367.364 VHL 19.167 DLA -41.04 RAL 64.41 RAD 6572.0 VEL 22.106 PTH 3.24 VHP 23.695 DPA 50.54 RAP 284.07 ECC 7.0459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.95 7 5 30 2132.06 2.92 48.96 331.04 130.96 7 41 2 1532.1 8.14 43.28
 121.05 13 58 36 846.51 2.93 310.78 331.05 130.96 14 12 43 246.5 8.15 305.10
 58.95 7 5 30 2132.06 2.92 48.96 331.04 130.96 7 41 2 1532.1 8.14 43.28
 121.05 13 58 36 846.51 2.93 310.78 331.05 130.96 14 12 43 246.5 8.15 305.10
 58.95 7 5 30 2132.06 2.92 48.96 331.04 130.96 7 41 2 1532.1 8.14 43.28
 121.05 13 58 36 846.51 2.93 310.78 331.05 130.96 14 12 43 246.5 8.15 305.10

DIFFERENTIAL CORRECTIONS

TOE-3.3149 TRA 2.1290 TC3 -.0115 BAU .4022
 ROE-9.3102 RRA 1.6990 RC3 .0811 FAU-.00461
 FDE-1.8436 FRA .6649 FC3 .0109 BSP 9757
 BOE 9.8828 BRA 2.7238 BC3 .0819 FSP -166

MID-COURSE EXECUTION ACCURACY

SGT 1302.3 SGR 2880.3 SG3 52.9
 RRT .8831 RRF .9777 RTF .9615
 SGB 3161.0 R23 -.1348 R13 .9907
 SG1 3109.9 SG2 565.9 THA 67.45

ORBIT DETERMINATION ACCURACY

ST 1022.8 SR 2790.5 SS 1139.8
 CRT .9842 CRS -.9975 CST -.9942
 LSA 3178.1 MSA 177.9 SSA .8
 EL1 2967.1 EL2 170.0 ALF 70.10

LAUNCH DATE MAR 9 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 368.395

RL 148.54 LAL .00 LOL 168.25 VL 27.824 GAL -8.22 AZL 159.43 HCA 176.37 SMA 131.04 ECC .19473 INC69.4269 V1 29.996
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.772 GAP 5.56 AZP 20.61 TAL 219.04 TAP 35.41 RCA 105.52 APO 156.56 V2 34.829
 RC 132.989 GL -51.11 GP 58.09 ZAL 97.69 ZAP 95.26 ETS 165.31 ZAE 58.83 ETE 236.95 ZAC 43.88 ETC 261.62 CLP 99.99

PLANETOCENTRIC CONIC

C31097.083 VHL 33.122 DLA -29.08 RAL 72.97 RAD 6573.0 VEL 34.905 PTH 3.52 VHP 41.444 DPA 33.88 RAP 271.43 ECC19.0552
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.08 10 8 51 1750.36 -.35 17.12 343.57 119.08 10 38 2 1150.4 3.54 10.53
 96.92 12 3 31 1379.54 -.35 349.93 343.58 119.08 12 26 31 779.5 3.55 343.35
 100.00 11 29 7 1490.04 -6.66 354.56 340.04 119.21 11 53 57 890.0 -2.72 347.99
 100.00 13 25 56 1115.08 5.98 333.90 347.11 119.34 13 44 32 515.1 9.85 327.25
 110.00 11 16 4 1531.14 -16.72 351.81 334.19 120.26 11 41 35 931.1 -12.57 345.15
 110.00 15 55 29 646.75 16.02 304.25 352.99 120.61 16 6 16 46.8 19.96 297.35

DIFFERENTIAL CORRECTIONS

TDE 3.3418 TRA 1.4501 TC3 -.0522 BAU 2.7344
 RD-12.5708 RRA 6.5464 RC3 .1790 FAU-.04169
 FDE-2.3835 FRA 1.4519 FC3 .0329 BSP 8617
 BOE13.0074 BRA 6.7050 BC3 .1864 FSP -147

MID-COURSE EXECUTION ACCURACY

SGT 732.2 SGR 2795.2 SG3 47.3
 RRT -.6328 RRF .9975 RTF -.5765
 SGB 2889.5 R23 -.1046 R13 .9945
 SG1 2834.9 SG2 559.0 THA 99.80

ORBIT DETERMINATION ACCURACY

ST 584.5 SR 2209.3 SS 1508.5
 CRT -.9477 CRS -.9996 CST .9380
 LSA 2731.6 MSA 191.2 SSA .5
 EL1 2278.1 EL2 180.9 ALF 104.17

LAUNCH DATE MAR 9 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 378.670

RL 148.54 LAL .00 LOL 168.25 VL 27.752 GAL -8.86 AZL 29.26 MCA 183.88 SMA 130.53 ECC .20570 INC60.7399 VI 29.996
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.727 GAP 7.03 AZP 150.68 TAL 219.63 TAP 43.51 RCA 103.68 APO 157.38 V2 34.837
 RC 135.313 GL 54.20 GP -62.14 ZAL 99.23 ZAP 97.40 ETS 187.14 ZAE 68.13 ETE 115.26 ZAC 76.83 ETC 93.61 CLP 105.99

PLANETOCENTRIC CONIC

C3 869.881 VHL 29.494 DLA 71.85 RAL 29.33 RAD 6572.9 VEL 31.483 PTH 3.47 VHP 37.010 DPA -86.55 RAP 268.81 ECC15.3160
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 20.72 14 51 46 5080.24 -.05 248.04 299.33 18.15 16 16 27 4480.2 -7.64 245.95
 159.28 1 32 28 3316.09 -.04 95.76 299.31 18.15 2 27 44 2716.1 -7.64 93.67
 20.72 14 51 46 5080.24 -.05 248.04 299.33 18.15 16 16 27 4480.2 -7.64 245.95
 159.28 1 32 28 3316.09 -.04 95.76 299.31 18.15 2 27 44 2716.1 -7.64 93.67
 20.72 14 51 46 5080.24 -.05 248.04 299.33 18.15 16 16 27 4480.2 -7.64 245.95
 159.28 1 32 28 3316.09 -.04 95.76 299.31 18.15 2 27 44 2716.1 -7.64 93.67

DIFFERENTIAL CORRECTIONS

TDE-1.4084 TRA 1.1332 TC3 -.0674 BAU 2.1975
 RD-13.5789 RRA 1.6370 RC3 -.1765 FAU-.02979
 FDE 2.6055 FRA -.2727 FC3 .0296 BSP 9368
 BOE13.6517 BRA 1.9909 BC3 .11890 FSP -155

MID-COURSE EXECUTION ACCURACY

SGT 855.9 SGR 3014.1 SG3 48.5
 RRT .7200 RRF -.9984 RTF -.6826
 SGB 3133.3 R23 -.0923 R13 -.9955
 SG1 3078.8 SG2 581.5 THA 78.01

ORBIT DETERMINATION ACCURACY

ST 346.3 SR 2655.8 SS 1626.8
 CRT .8557 CRS .9999 CST .8477
 LSA 3128.4 MSA 180.9 SSA 1.1
 EL1 2672.4 EL2 178.1 ALF 83.60

LAUNCH DATE MAR 9 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 383.551

RL 148.54 LAL .00 LOL 168.25 VL 27.681 GAL -8.37 AZL 56.36 MCA 186.09 SMA 130.03 ECC .20259 INC33.6354 VI 29.996
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.683 GAP 6.96 AZP 123.49 TAL 217.57 TAP 43.66 RCA 103.69 APO 156.37 V2 34.846
 RC 137.625 GL 60.81 GP -73.80 ZAL 104.96 ZAP 102.56 ETS 222.33 ZAE 85.62 ETE 148.56 ZAC 93.38 ETC 129.51 CLP 141.21

PLANETOCENTRIC CONIC

C3 301.942 VHL 17.376 DLA 70.26 RAL 355.96 RAD 6571.7 VEL 20.573 PTH -3.17 VHP 21.722 DPA -75.04 RAP 57.17 ECC 5.9692
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.57 12 42 33 4988.90 -5.60 245.45 263.96 19.84 14 5 42 4388.9 -13.11 243.08
 157.43 23 11 32 3234.08 -5.59 95.08 263.94 19.84 24 5 26 2634.1 -13.11 92.72
 22.57 12 42 33 4988.90 -5.60 245.45 263.96 19.84 14 5 42 4388.9 -13.11 243.08
 157.43 23 11 32 3234.08 -5.59 95.08 263.94 19.84 24 5 26 2634.1 -13.11 92.72
 22.57 12 42 33 4988.90 -5.60 245.45 263.96 19.84 14 5 42 4388.9 -13.11 243.08
 157.43 23 11 32 3234.08 -5.59 95.08 263.94 19.84 24 5 26 2634.1 -13.11 92.72

DIFFERENTIAL CORRECTIONS

TDE 3.3399 TRA -.9429 TC3 -.0190 BAU .2469
 RDE 3.9760 RRA 2.9723 RC3 -.0581 FAU .00208
 FDE 1.1650 FRA -.5472 FC3 -.0060 BSP 10860
 BOE 5.1927 BRA 3.1183 BC3 .0612 FSP -185

MID-COURSE EXECUTION ACCURACY

SGT 1436.7 SGR 3190.1 SG3 56.9
 RRT -.8947 RRF -.9758 RTF .9686
 SGB 3498.7 R23 -.1434 R13 -.9886
 SG1 3447.9 SG2 593.8 THA 112.66

ORBIT DETERMINATION ACCURACY

ST 1135.4 SR 1573.6 SS 781.2
 CRT -.9426 CRS .9818 CST -.9888
 LSA 2067.7 MSA 316.3 SSA 1.6
 EL1 1915.3 EL2 311.5 ALF 125.29

LAUNCH DATE MAR 9 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 389.030

RL 148.54 LAL .00 LOL 168.25 VL 27.610 GAL -8.00 AZL 67.87 MCA 188.90 SMA 129.53 ECC .20124 INC22.1283 VI 29.996
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.640 GAP 7.05 AZP 111.89 TAL 215.77 TAP 44.67 RCA 103.46 APO 155.60 V2 34.855
 RC 139.923 GL 58.37 GP -71.41 ZAL 110.81 ZAP 108.54 ETS 267.09 ZAE 95.87 ETE 191.81 ZAC 102.53 ETC 173.96 CLP 175.96

PLANETOCENTRIC CONIC

C3 146.309 VHL 12.096 DLA 64.50 RAL 352.16 RAD 6570.6 VEL 16.360 PTH 2.86 VHP 15.070 DPA -63.72 RAP 53.89 ECC 3.4079
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.27 12 42 18 4858.73 -12.05 238.42 256.33 26.11 14 3 17 4258.7 -19.20 235.12
 150.73 22 41 26 3146.27 -12.04 95.37 256.31 26.11 23 33 53 2546.3 -19.19 92.06
 29.27 12 42 18 4858.73 -12.05 238.42 256.33 26.11 14 3 17 4258.7 -19.20 235.12
 150.73 22 41 26 3146.27 -12.04 95.37 256.31 26.11 23 33 53 2546.3 -19.19 92.06
 29.27 12 42 18 4858.73 -12.05 238.42 256.33 26.11 14 3 17 4258.7 -19.20 235.12
 150.73 22 41 26 3146.27 -12.04 95.37 256.31 26.11 23 33 53 2546.3 -19.19 92.06

DIFFERENTIAL CORRECTIONS

TDE 2.8684 TRA-2.7645 TC3 -.2294 BAU .4530
 RDE -.1609 RRA 1.2810 RC3 .0316 FAU .01484
 FDE .8540 FRA -.5953 FC3 -.0878 BSP 11385
 BOE 2.8729 BRA 3.0469 BC3 .2316 FSP -225

MID-COURSE EXECUTION ACCURACY

SGT 3377.6 SGR 1413.8 SG3 69.0
 RRT -.9286 RRF -.8595 RTF .9862
 SGB 3661.6 R23 -.2040 R13 -.9767
 SG1 3628.9 SG2 488.3 THA 158.35

ORBIT DETERMINATION ACCURACY

ST 1636.8 SR 429.7 SS 585.6
 CRT -.6960 CRS .5896 CST -.9903
 LSA 1762.3 MSA 318.0 SSA 2.0
 EL1 1664.9 EL2 303.3 ALF 169.29

LAUNCH DATE MAR 9 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 394.685

RL 148.54 LAL .00 LOL 168.25 VL 27.540 GAL -7.66 AZL 73.77 MCA 191.90 SMA 129.04 ECC .20051 INC16.2319 VI 29.996
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.597 GAP 7.20 AZP 105.90 TAL 214.02 TAP 45.92 RCA 103.17 APO 154.92 V2 34.865
 RC 142.207 GL 53.72 GP -65.10 ZAL 115.85 ZAP 114.49 ETS 284.66 ZAE 103.10 ETE 207.36 ZAC 108.89 ETC 190.52 CLP-169.95

PLANETOCENTRIC CONIC

C3 89.577 VHL 9.465 DLA 59.32 RAL 355.19 RAD 6569.8 VEL 14.523 PTH 2.64 VHP 11.803 DPA -54.93 RAP 50.94 ECC 2.4742
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.42 13 9 21 4733.21 -17.23 230.44 254.60 32.29 14 28 14 4133.2 -23.94 226.19
 144.58 22 38 32 3072.76 -17.22 94.67 254.58 32.28 23 29 45 2472.8 -23.92 90.42
 35.42 13 9 21 4733.21 -17.23 230.44 254.60 32.29 14 28 14 4133.2 -23.94 226.19
 144.58 22 38 32 3072.76 -17.22 94.67 254.58 32.28 23 29 45 2472.8 -23.92 90.42
 35.42 13 9 21 4733.21 -17.23 230.44 254.60 32.29 14 28 14 4133.2 -23.94 226.19
 144.58 22 38 32 3072.76 -17.22 94.67 254.58 32.28 23 29 45 2472.8 -23.92 90.42

DIFFERENTIAL CORRECTIONS

TDE 2.1045 TRA-2.8163 TC3 -.5749 BAU .6890
 RDE .4759 RRA .3855 RC3 -.0204 FAU .02314
 FDE .8082 FRA -.6028 FC3 -.2236 BSP 11770
 BOE 2.1577 BRA 2.8425 BC3 .5753 FSP -273

MID-COURSE EXECUTION ACCURACY

SGT 3738.3 SGR 541.9 SG3 83.3
 RRT -.5525 RRF -.3250 RTF .9636
 SGB 3777.4 R23 -.2583 R13 -.9612
 SG1 3750.5 SG2 450.2 THA 175.35

ORBIT DETERMINATION ACCURACY

ST 1621.5 SR 319.1 SS 545.0
 CRT .4436 CRS -.6540 CST -.9681
 LSA 1712.4 MSA 309.8 SSA 2.7
 EL1 1627.9 EL2 284.9 ALF 5.15

LAUNCH DATE MAR 9 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 400.406

RL 148.54 LAL .00 LOL 168.25 VL 27.471 GAL -7.33 AZL 77.30 MCA 194.97 SMA 128.56 ECC .20009 INC12.7009 V1 29.996
 RP 108.66 LAP -3.26 LOP 2.87 VP 37.556 GAP 7.37 AZP 102.28 TAL 212.29 TAP 47.26 RCA 102.84 APO 154.29 V2 34.875
 RC 144.478 GL 48.89 GP -58.68 ZAL 119.87 ZAP 120.07 ETS 291.64 ZAE 108.64 ETE 211.81 ZAC 113.93 ETC 196.00 CLP-164.58

PLANETOCENTRIC CONIC

C3 63.219 VHL 7.951 DLA 54.89 RAL 359.29 RAD 6569.2 VEL 13.586 PTH 2.48 VHP 9.989 OPA -47.46 RAP 48.98 ECC 2.0404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.79 13 40 8 4623.40 -20.74 222.44 253.86 37.95 14 57 11 4023.4 -26.96 217.35
 139.21 22 40 28 3020.76 -20.73 93.66 253.84 37.95 23 30 48 2420.8 -26.95 88.57
 40.79 13 40 8 4623.40 -20.74 222.44 253.86 37.95 14 57 11 4023.4 -26.96 217.35
 139.21 22 40 28 3020.76 -20.73 93.66 253.84 37.95 23 30 48 2420.8 -26.95 88.57
 40.79 13 40 8 4623.40 -20.74 222.44 253.86 37.95 14 57 11 4023.4 -26.96 217.35
 139.21 22 40 28 3020.76 -20.73 93.66 253.84 37.95 23 30 48 2420.8 -26.95 88.57

DIFFERENTIAL CORRECTIONS

TDE 1.7157 TRA-2.6506 TC3 -.9528 BAU .8091
 RDE .5336 RRA .1042 RC3 -.0926 FAU .02964
 FDE .7943 FRA -.5880 FC3 -.4059 BSP 12100
 BOE 1.7968 BRA 2.6527 BC3 .9573 FSP -322

MID-COURSE EXECUTION ACCURACY

SGT 3854.2 SGR 432.0 SG3 98.0
 RRT .1591 RRF .4468 RTF .9451
 SGB 3878.3 R23 .2983 R13 .9457
 SG1 3854.8 SG2 426.4 TMA 1.03

ORBIT DETERMINATION ACCURACY

ST 1588.5 SR 386.6 SS 529.8
 CRT .7110 CRS -.8914 CST -.9524
 LSA 1691.8 MSA 301.8 SSA 3.7
 EL1 1612.8 EL2 267.7 ALF 10.10

LAUNCH DATE MAR 9 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 406.156

RL 148.54 LAL .00 LOL 168.25 VL 27.401 GAL -7.00 AZL 79.65 MCA 198.08 SMA 128.09 ECC .19989 INC10.3544 V1 29.996
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.515 GAP 7.55 AZP 99.85 TAL 210.57 TAP 48.64 RCA 102.49 APO 153.70 V2 34.885
 RC 146.734 GL 44.42 GP -52.85 ZAL 122.90 ZAP 125.15 ETS 295.29 ZAE 113.02 ETE 212.61 ZAC 118.19 ETC 197.85 CLP-162.43

PLANETOCENTRIC CONIC

C3 48.778 VHL 6.984 DLA 51.15 RAL 3.34 RAD 6568.8 VEL 13.044 PTH 2.38 VHP 8.898 OPA -40.95 RAP 47.85 ECC 1.8028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.45 14 10 8 4528.93 -22.91 214.90 253.44 42.93 15 25 37 3928.9 -28.65 209.12
 134.55 22 42 48 2987.62 -22.90 92.80 253.43 42.92 23 32 36 2387.6 -28.64 87.02
 45.45 14 10 8 4528.93 -22.91 214.90 253.44 42.93 15 25 37 3928.9 -28.65 209.12
 134.55 22 42 48 2987.62 -22.90 92.80 253.43 42.92 23 32 36 2387.6 -28.64 87.02
 45.45 14 10 8 4528.93 -22.91 214.90 253.44 42.93 15 25 37 3928.9 -28.65 209.12
 134.55 22 42 48 2987.62 -22.90 92.80 253.43 42.92 23 32 36 2387.6 -28.64 87.02

DIFFERENTIAL CORRECTIONS

TDE 1.4779 TRA-2.4891 TC3 -1.3455 BAU .8831
 RDE .4971 RRA .0084 RC3 -.1527 FAU .03479
 FDE .7721 FRA -.5539 FC3 -.6175 BSP 12456
 BOE 1.5592 BRA 2.4891 BC3 1.3542 FSP -368

MID-COURSE EXECUTION ACCURACY

SGT 3949.3 SGR 460.3 SG3 111.6
 RRT .4727 RRF .7301 RTF .9301
 SGB 3976.0 R23 .3242 R13 .9320
 SG1 3955.4 SG2 405.0 TMA 3.19

ORBIT DETERMINATION ACCURACY

ST 1557.8 SR 407.9 SS 515.2
 CRT .7737 CRS -.9430 CST -.9403
 LSA 1664.7 MSA 295.2 SSA 4.7
 EL1 1590.2 EL2 253.1 ALF 11.75

LAUNCH DATE MAR 9 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 411.919

RL 148.54 LAL .00 LOL 168.25 VL 27.333 GAL -6.66 AZL 81.32 MCA 201.21 SMA 127.63 ECC .19986 INC 8.6781 V1 29.996
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.475 GAP 7.73 AZP 98.10 TAL 208.83 TAP 50.04 RCA 102.12 APO 153.14 V2 34.897
 RC 148.977 GL 40.43 GP -47.72 ZAL 125.05 ZAP 129.69 ETS 297.63 ZAE 116.50 ETE 211.96 ZAC 121.92 ETC 198.25 CLP-161.65

PLANETOCENTRIC CONIC

C3 39.888 VHL 6.316 DLA 48.00 RAL 7.16 RAD 6568.5 VEL 12.699 PTH 2.31 VHP 8.210 OPA -35.25 RAP 47.37 ECC 1.6565
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 49.48 14 38 33 4446.86 -24.18 208.01 253.33 47.18 15 52 40 3846.9 -29.46 201.69
 130.52 22 44 53 2968.50 -24.16 92.25 253.32 47.17 23 34 21 2368.5 -29.45 85.94
 49.48 14 38 33 4446.86 -24.18 208.01 253.33 47.18 15 52 40 3846.9 -29.46 201.69
 130.52 22 44 53 2968.50 -24.16 92.25 253.32 47.17 23 34 21 2368.5 -29.45 85.94
 49.48 14 38 33 4446.86 -24.18 208.01 253.33 47.18 15 52 40 3846.9 -29.46 201.69
 130.52 22 44 53 2968.50 -24.16 92.25 253.32 47.17 23 34 21 2368.5 -29.45 85.94

DIFFERENTIAL CORRECTIONS

TDE 1.3135 TRA-2.3413 TC3 -1.7404 BAU .9340
 RDE .4490 RRA -.0248 RC3 -.1962 FAU .03864
 FDE .7387 FRA -.5036 FC3 -.8386 BSP 12764
 BOE 1.3881 BRA 2.3414 BC3 1.7514 FSP -407

MID-COURSE EXECUTION ACCURACY

SGT 4040.7 SGR 478.0 SG3 123.3
 RRT .5886 RRF .8185 RTF .9179
 SGB 4068.9 R23 .3380 R13 .9202
 SG1 4050.6 SG2 385.5 TMA 4.02

ORBIT DETERMINATION ACCURACY

ST 1526.7 SR 407.5 SS 497.6
 CRT .7963 CRS -.9629 CST -.9297
 LSA 1631.2 MSA 289.4 SSA 6.0
 EL1 1561.7 EL2 241.0 ALF 12.30

LAUNCH DATE MAR 9 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 417.686

RL 148.54 LAL .00 LOL 168.25 VL 27.265 GAL -6.32 AZL 82.58 MCA 204.35 SMA 127.18 ECC .20000 INC 7.4160 V1 29.996
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.437 GAP 7.92 AZP 96.76 TAL 207.09 TAP 51.44 RCA 101.74 APO 152.62 V2 34.908
 RC 151.204 GL 36.91 GP -43.26 ZAL 126.41 ZAP 133.70 ETS 299.34 ZAE 119.26 ETE 210.68 ZAC 125.28 ETC 198.02 CLP-161.56

PLANETOCENTRIC CONIC

C3 33.924 VHL 5.824 DLA 45.36 RAL 10.77 RAD 6568.3 VEL 12.462 PTH 2.25 VHP 7.765 OPA -30.23 RAP 47.37 ECC 1.5583
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.96 15 5 24 4374.48 -24.87 201.79 253.55 50.76 16 18 19 3774.5 -29.76 195.08
 127.04 22 46 51 2959.05 -24.86 92.02 253.54 50.75 23 36 10 2359.0 -29.75 85.31
 52.96 15 5 24 4374.48 -24.87 201.79 253.55 50.76 16 18 19 3774.5 -29.76 195.08
 127.04 22 46 51 2959.05 -24.86 92.02 253.54 50.75 23 36 10 2359.0 -29.75 85.31
 52.96 15 5 24 4374.48 -24.87 201.79 253.55 50.76 16 18 19 3774.5 -29.76 195.08
 127.04 22 46 51 2959.05 -24.86 92.02 253.54 50.75 23 36 10 2359.0 -29.75 85.31

DIFFERENTIAL CORRECTIONS

TDE 1.1916 TRA-2.2034 TC3 -2.1338 BAU .9731
 RDE .4070 RRA -.0345 RC3 -.2249 FAU .04131
 FDE .6978 FRA -.4417 FC3 -1.0542 BSP 13046
 BOE 1.2592 BRA 2.2037 BC3 2.1456 FSP -436

MID-COURSE EXECUTION ACCURACY

SGT 4131.4 SGR 480.9 SG3 132.8
 RRT .6390 RRF .8477 RTF .9079
 SGB 4159.3 R23 .3417 R13 .9102
 SG1 4142.9 SG2 368.9 TMA 4.29

ORBIT DETERMINATION ACCURACY

ST 1495.3 SR 400.7 SS 477.7
 CRT .8066 CRS -.9737 CST -.9196
 LSA 1594.9 MSA 284.6 SSA 7.3
 EL1 1530.7 EL2 231.4 ALF 12.49

LAUNCH DATE MAR 9 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 27.198 GAL -5.98 AZL 83.57 MCA 207.51 SMA 126.74 ECC .20031 INC 6.4269 V1 29.996
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.399 GAP 8.11 AZP 95.71 TAL 205.34 TAP 52.85 RCA 101.35 APO 152.12 V2 34.920
 RC 153.416 GL 33.78 GP -39.40 ZAL 127.12 ZAP 137.24 ETS 300.68 ZAE 121.47 ETE 209.14 ZAC 128.36 ETC 197.49 CLP-161.83

PLANETOCENTRIC CONIC
 C3 29.656 VHL 5.446 DLA 43.15 RAL 14.24 RAD 6568.2 VEL 12.289 PTH 2.21 VHP 7.474 DPA -25.81 RAP 47.75 ECC 1.4881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.98 15 30 58 4309.64 -25.22 196.20 254.09 53.75 16 42 48 3709.6 -29.76 189.19
 124.02 22 48 54 2956.24 -25.20 92.06 254.08 53.74 23 38 10 2356.2 -29.74 85.05
 55.98 15 30 58 4309.64 -25.22 196.20 254.09 53.75 16 42 48 3709.6 -29.76 189.19
 124.02 22 48 54 2956.24 -25.20 92.06 254.08 53.74 23 38 10 2356.2 -29.74 85.05
 55.98 15 30 58 4309.64 -25.22 196.20 254.09 53.75 16 42 48 3709.6 -29.76 189.19
 124.02 22 48 54 2956.24 -25.20 92.06 254.08 53.74 23 38 10 2356.2 -29.74 85.05

MID-COURSE EXECUTION ACCURACY
 SGT 4293.6 SGR 479.2 SG3 143.9
 RRT .6926 RRF .8628 RTF .9078
 SGB 4320.3 R23 .3189 R13 .9098
 SG1 4306.5 SG2 344.7 THA 4.45

ORBIT DETERMINATION ACCURACY
 ST 1440.4 SR 381.9 SS 437.9
 CRT .8044 CRS -.9775 CST -.9106
 LSA 1528.7 MSA 274.2 SSA 9.1
 EL1 1473.6 EL2 221.8 ALF 12.32

DIFFERENTIAL CORRECTIONS
 TOE 1.0547 TRA-2.1140 TC3-2.5825 BAU 1.0290
 RDE .3624 RRA -.0474 RC3 -.2591 FAU .04452
 FDE .6212 FRA -.4060 FC3-1.2996 BSP 14378
 BOE 1.1152 BRA 2.1145 BC3 2.5955 FSP -526

LAUNCH DATE MAR 9 1969

FLIGHT TIME 144.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 27.132 GAL -5.62 AZL 84.37 MCA 210.67 SMA 126.30 ECC .20074 INC 5.6269 V1 29.996
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.362 GAP 8.30 AZP 94.84 TAL 203.57 TAP 54.24 RCA 100.95 APO 151.65 V2 34.932
 RC 155.612 GL 30.99 GP -36.06 ZAL 127.24 ZAP 140.36 ETS 301.77 ZAE 123.24 ETE 207.55 ZAC 131.24 ETC 196.86 CLP-162.30

PLANETOCENTRIC CONIC
 C3 26.431 VHL 5.141 DLA 41.29 RAL 17.62 RAD 6568.1 VEL 12.158 PTH 2.18 VHP 7.285 DPA -21.90 RAP 48.45 ECC 1.4350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.59 15 55 27 4251.01 -25.37 191.18 254.96 56.26 17 6 18 3651.0 -29.61 183.95
 121.41 22 51 26 2957.47 -25.36 92.29 254.95 56.25 23 40 44 2357.5 -29.60 85.06
 58.59 15 55 27 4251.01 -25.37 191.18 254.96 56.26 17 6 18 3651.0 -29.61 183.95
 121.41 22 51 26 2957.47 -25.36 92.29 254.95 56.25 23 40 44 2357.5 -29.60 85.06
 58.59 15 55 27 4251.01 -25.37 191.18 254.96 56.26 17 6 18 3651.0 -29.61 183.95
 121.41 22 51 26 2957.47 -25.36 92.29 254.95 56.25 23 40 44 2357.5 -29.60 85.06

MID-COURSE EXECUTION ACCURACY
 SGT 4288.7 SGR 468.8 SG3 144.5
 RRT .6652 RRF .8424 RTF .8904
 SGB 4314.3 R23 .3296 R13 .8924
 SG1 4300.1 SG2 349.1 THA 4.19

ORBIT DETERMINATION ACCURACY
 ST 1442.0 SR 390.9 SS 440.1
 CRT .8218 CRS -.9874 CST -.9000
 LSA 1532.7 MSA 277.0 SSA 10.3
 EL1 1478.2 EL2 217.3 ALF 12.84

DIFFERENTIAL CORRECTIONS
 TOE 1.0368 TRA-1.9284 TC3-2.8975 BAU 1.0276
 RDE .3505 RRA -.0294 RC3 -.2485 FAU .04344
 FDE .6153 FRA -.2913 FC3-1.4230 BSP 13309
 BOE 1.0944 BRA 1.9286 BC3 2.9082 FSP -456

LAUNCH DATE MAR 9 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 27.066 GAL -5.25 AZL 85.04 MCA 213.84 SMA 125.87 ECC .20135 INC 4.9628 V1 29.996
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.326 GAP 8.49 AZP 94.13 TAL 201.80 TAP 55.64 RCA 100.53 APO 151.22 V2 34.945
 RC 157.792 GL 28.48 GP -33.18 ZAL 126.86 ZAP 143.13 ETS 302.65 ZAE 124.66 ETE 206.00 ZAC 133.98 ETC 196.18 CLP-162.90

PLANETOCENTRIC CONIC
 C3 23.910 VHL 4.890 DLA 39.73 RAL 20.98 RAD 6568.0 VEL 12.054 PTH 2.15 VHP 7.168 DPA -18.41 RAP 49.38 ECC 1.3935
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.89 16 19 6 4197.52 -25.41 186.64 256.13 58.37 17 29 4 3597.5 -29.39 179.24
 119.11 22 54 32 2961.56 -25.40 92.66 256.12 58.36 23 43 53 2361.6 -29.38 85.27
 60.89 16 19 6 4197.52 -25.41 186.64 256.13 58.37 17 29 4 3597.5 -29.39 179.24
 119.11 22 54 32 2961.56 -25.40 92.66 256.12 58.36 23 43 53 2361.6 -29.38 85.27
 60.89 16 19 6 4197.52 -25.41 186.64 256.13 58.37 17 29 4 3597.5 -29.39 179.24
 119.11 22 54 32 2961.56 -25.40 92.66 256.12 58.36 23 43 53 2361.6 -29.38 85.27

MID-COURSE EXECUTION ACCURACY
 SGT 4387.1 SGR 462.4 SG3 149.0
 RRT .6729 RRF .8282 RTF .8865
 SGB 4411.4 R23 .3082 R13 .8883
 SG1 4398.2 SG2 341.2 THA 4.08

ORBIT DETERMINATION ACCURACY
 ST 1409.8 SR 386.2 SS 415.6
 CRT .8281 CRS -.9915 CST -.8908
 LSA 1495.3 MSA 270.9 SSA 12.1
 EL1 1446.5 EL2 211.0 ALF 13.06

DIFFERENTIAL CORRECTIONS
 TOE .9725 TRA-1.8038 TC3-3.2969 BAU 1.0571
 RDE .3294 RRA -.0275 RC3 -.2570 FAU .04394
 FDE .5645 FRA -.2240 FC3-1.5912 BSP 13753
 BOE 1.0268 BRA 1.8040 BC3 3.3069 FSP -478

LAUNCH DATE MAR 9 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 27.001 GAL -4.88 AZL 85.60 MCA 217.01 SMA 125.46 ECC .20212 INC 4.3998 V1 29.996
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.291 GAP 8.69 AZP 93.52 TAL 200.02 TAP 57.03 RCA 100.10 APO 150.81 V2 34.957
 RC 159.953 GL 26.19 GP -30.67 ZAL 126.04 ZAP 145.59 ETS 303.34 ZAE 125.81 ETE 204.52 ZAC 136.62 ETC 195.52 CLP-163.57

PLANETOCENTRIC CONIC
 C3 21.875 VHL 4.677 DLA 38.40 RAL 24.35 RAD 6567.9 VEL 11.969 PTH 2.13 VHP 7.103 DPA -15.30 RAP 50.51 ECC 1.3600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.91 16 42 13 4148.23 -25.38 182.50 257.58 60.17 17 51 21 3548.2 -29.15 174.98
 117.09 22 58 18 2967.58 -25.37 93.15 257.57 60.16 23 47 46 2367.6 -29.13 85.62
 62.91 16 42 13 4148.23 -25.38 182.50 257.58 60.17 17 51 21 3548.2 -29.15 174.98
 117.09 22 58 18 2967.58 -25.37 93.15 257.57 60.16 23 47 46 2367.6 -29.13 85.62
 62.91 16 42 13 4148.23 -25.38 182.50 257.58 60.17 17 51 21 3548.2 -29.15 174.98
 117.09 22 58 18 2967.58 -25.37 93.15 257.57 60.16 23 47 46 2367.6 -29.13 85.62

MID-COURSE EXECUTION ACCURACY
 SGT 4472.5 SGR 457.4 SG3 151.7
 RRT .6710 RRF .8074 RTF .8823
 SGB 4495.9 R23 .2858 R13 .8838
 SG1 4483.1 SG2 338.3 THA 3.95

ORBIT DETERMINATION ACCURACY
 ST 1382.8 SR 385.7 SS 394.5
 CRT .8378 CRS -.9949 CST -.8819
 LSA 1464.9 MSA 265.1 SSA 14.0
 EL1 1420.8 EL2 205.0 ALF 13.44

DIFFERENTIAL CORRECTIONS
 TOE .9264 TRA-1.6701 TC3-3.6880 BAU 1.0812
 RDE .3147 RRA -.0233 RC3 -.2603 FAU .04373
 FDE .5201 FRA -.1523 FC3-1.7307 BSP 14032
 BOE .9784 BRA 1.6703 BC3 3.6972 FSP -486

LAUNCH DATE MAR 9 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 446.490

RL 148.54 LAL .00 LOL 168.25 VL 26.937 GAL -4.50 AZL 86.09 HCA 220.19 SMA 125.05 ECC .20306 INC 3.9136 V1 29.996
 RP 108.37 LAP -2.52 LOP 28.38 VP 37.257 GAP 8.89 AZP 92.99 TAL 198.22 TAP 58.42 RCA 99.66 APO 150.44 V2 34.970
 RC 162.097 GL 24.07 GP -28.48 ZAL 124.83 ZAP 147.79 ETS 303.87 ZAE 126.75 ETE 203.15 ZAC 139.18 ETC 194.88 CLP-164.28

PLANETOCENTRIC CONIC

C3 20.199 VHL 4.494 DLA 37.25 RAL 27.77 RAD 6567.8 VEL 11.899 PTH 2.11 VHP 7.076 DPA -12.50 RAP 51.82 ECC 1.3324
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.71 17 4 57 4102.70 -25.32 178.73 259.32 61.71 18 13 19 3502.7 -28.89 171.10
 115.29 23 2 54 2974.81 -25.31 93.70 259.31 61.70 23 52 29 2374.8 -28.88 86.08
 64.71 17 4 57 4102.70 -25.32 178.73 259.32 61.71 18 13 19 3502.7 -28.89 171.10
 115.29 23 2 54 2974.81 -25.31 93.70 259.31 61.70 23 52 29 2374.8 -28.88 86.08
 64.71 17 4 57 4102.70 -25.32 178.73 259.32 61.71 18 13 19 3502.7 -28.89 171.10
 115.29 23 2 54 2974.81 -25.31 93.70 259.31 61.70 23 52 29 2374.8 -28.88 86.08

DIFFERENTIAL CORRECTIONS

TDE .8892 TRA-1.5327 TC3-4.0801 BAU 1.1041
 RDE .3037 RRA -.0189 RC3 -.2624 FAU .04315
 FDE .4775 FRA -.0827 FC3-1.8496 BSP 14321
 BDE .9396 BRA 1.5329 BC3 4.0886 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 4556.5 SGR 454.4 SG3 153.4
 RRT .6657 RRF .7832 RTF .8792
 SGB 4579.1 R23 .2608 R13 .8805
 SGI 4566.6 SG2 338.3 THA 3.82

ORBIT DETERMINATION ACCURACY

ST 1356.3 SR 387.4 SS 374.2
 CRT .8497 CRS -.9971 CST -.8731
 LSA 1436.2 MSA 258.2 SSA 16.1
 EL1 1396.5 EL2 198.4 ALF 13.93

LAUNCH DATE MAR 9 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 452.234

RL 148.54 LAL .00 LOL 168.25 VL 26.874 GAL -4.11 AZL 86.51 HCA 223.38 SMA 124.65 ECC .20416 INC 3.4871 V1 29.996
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.223 GAP 9.09 AZP 92.54 TAL 196.42 TAP 59.80 RCA 99.20 APO 150.10 V2 34.983
 RC 164.221 GL 22.09 GP -26.57 ZAL 123.27 ZAP 149.76 ETS 304.23 ZAE 127.53 ETE 201.90 ZAC 141.69 ETC 194.29 CLP-165.02

PLANETOCENTRIC CONIC

C3 18.798 VHL 4.336 DLA 36.26 RAL 31.28 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 7.079 DPA -9.98 RAP 53.26 ECC 1.3094
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.34 17 27 33 4060.27 -25.23 175.25 261.33 63.05 18 35 14 3460.3 -28.63 167.54
 113.66 23 8 17 2983.19 -25.22 94.33 261.32 63.04 23 58 1 2383.2 -28.62 86.62
 66.34 17 27 33 4060.27 -25.23 175.25 261.33 63.05 18 35 14 3460.3 -28.63 167.54
 113.66 23 8 17 2983.19 -25.22 94.33 261.32 63.04 23 58 1 2383.2 -28.62 86.62
 66.34 17 27 33 4060.27 -25.23 175.25 261.33 63.05 18 35 14 3460.3 -28.63 167.54
 113.66 23 8 17 2983.19 -25.22 94.33 261.32 63.04 23 58 1 2383.2 -28.62 86.62

DIFFERENTIAL CORRECTIONS

TDE .8587 TRA-1.3895 TC3-4.4706 BAU 1.1254
 RDE .2957 RRA -.0141 RC3 -.2638 FAU .04228
 FDE .4370 FRA -.0150 FC3-1.9473 BSP 14592
 BDE .9082 BRA 1.3896 BC3 4.4783 FSP -493

MID-COURSE EXECUTION ACCURACY

SGT 4636.9 SGR 453.4 SG3 154.2
 RRT .6578 RRF .7570 RTF .8769
 SGB 4659.0 R23 .2351 R13 .8780
 SGI 4646.6 SG2 340.7 THA 3.70

ORBIT DETERMINATION ACCURACY

ST 1329.6 SR 390.8 SS 354.6
 CRT .8638 CRS -.9975 CST -.8643
 LSA 1408.4 MSA 250.2 SSA 18.4
 EL1 1372.7 EL2 190.7 ALF 14.53

LAUNCH DATE MAR 9 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 457.970

RL 148.54 LAL .00 LOL 168.25 VL 26.811 GAL -3.70 AZL 86.89 HCA 226.56 SMA 124.26 ECC .20545 INC 3.1078 V1 29.996
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.190 GAP 9.30 AZP 92.14 TAL 194.61 TAP 61.18 RCA 98.73 APO 149.78 V2 34.996
 RC 166.326 GL 20.22 GP -24.89 ZAL 121.37 ZAP 151.55 ETS 304.43 ZAE 128.19 ETE 200.76 ZAC 144.17 ETC 193.73 CLP-165.77

PLANETOCENTRIC CONIC

C3 17.619 VHL 4.197 DLA 35.38 RAL 34.90 RAD 6567.7 VEL 11.790 PTH 2.08 VHP 7.104 DPA -7.68 RAP 54.83 ECC 1.2900
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.85 17 50 20 4020.24 -25.11 171.99 263.61 64.22 18 57 20 3420.2 -28.36 164.22
 112.15 23 14 24 2992.93 -25.10 95.04 263.61 64.21 24 4 17 2392.9 -28.35 87.27
 67.85 17 50 20 4020.24 -25.11 171.99 263.61 64.22 18 57 20 3420.2 -28.36 164.22
 112.15 23 14 24 2992.93 -25.10 95.04 263.61 64.21 24 4 17 2392.9 -28.35 87.27
 67.85 17 50 20 4020.24 -25.11 171.99 263.61 64.22 18 57 20 3420.2 -28.36 164.22
 112.15 23 14 24 2992.93 -25.10 95.04 263.61 64.21 24 4 17 2392.9 -28.35 87.27

DIFFERENTIAL CORRECTIONS

TDE .8349 TRA-1.2380 TC3-4.8520 BAU 1.1446
 RDE .2901 RRA -.0085 RC3 -.2646 FAU .04113
 FDE .3998 FRA .0517 FC3-2.0212 BSP 14802
 BDE .8838 BRA 1.2381 BC3 4.8592 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 4710.1 SGR 454.3 SG3 154.2
 RRT .6476 RRF .7301 RTF .8749
 SGB 4732.0 R23 .2106 R13 .8759
 SGI 4719.4 SG2 345.5 THA 3.59

ORBIT DETERMINATION ACCURACY

ST 1303.9 SR 396.1 SS 336.8
 CRT .8805 CRS -.9954 CST -.8554
 LSA 1382.8 MSA 240.9 SSA 20.9
 EL1 1350.6 EL2 181.3 ALF 15.25

LAUNCH DATE MAR 9 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 463.696

RL 148.54 LAL .00 LOL 168.25 VL 26.749 GAL -3.29 AZL 87.23 HCA 229.75 SMA 123.87 ECC .20692 INC 2.7662 V1 29.996
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.159 GAP 9.52 AZP 91.79 TAL 192.80 TAP 62.55 RCA 98.24 APO 149.50 V2 35.010
 RC 168.410 GL 18.43 GP -23.41 ZAL 119.18 ZAP 153.18 ETS 304.47 ZAE 128.74 ETE 199.72 ZAC 146.62 ETC 193.20 CLP-166.53

PLANETOCENTRIC CONIC

C3 16.626 VHL 4.078 DLA 34.58 RAL 38.64 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 7.150 DPA -5.59 RAP 56.51 ECC 1.2736
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.28 18 13 30 3982.01 -24.97 168.90 266.17 65.26 19 19 52 3382.0 -28.08 161.08
 110.72 23 21 6 3004.40 -24.95 95.87 266.16 65.25 24 11 11 2404.4 -28.07 88.05
 69.28 18 13 30 3982.01 -24.97 168.90 266.17 65.26 19 19 52 3382.0 -28.08 161.08
 110.72 23 21 6 3004.40 -24.95 95.87 266.16 65.25 24 11 11 2404.4 -28.07 88.05
 69.28 18 13 30 3982.01 -24.97 168.90 266.17 65.26 19 19 52 3382.0 -28.08 161.08
 110.72 23 21 6 3004.40 -24.95 95.87 266.16 65.25 24 11 11 2404.4 -28.07 88.05

DIFFERENTIAL CORRECTIONS

TDE .8097 TRA-1.0827 TC3-5.2321 BAU 1.1645
 RDE .2856 RRA -.0027 RC3 -.2669 FAU .03993
 FDE .3616 FRA .1138 FC3-2.0792 BSP 15080
 BDE .8586 BRA 1.0827 BC3 5.2389 FSP -491

MID-COURSE EXECUTION ACCURACY

SGT 4786.9 SGR 456.6 SG3 153.9
 RRT .6377 RRF .7036 RTF .8745
 SGB 4808.6 R23 .1836 R13 .8753
 SGI 4795.8 SG2 351.0 THA 3.50

ORBIT DETERMINATION ACCURACY

ST 1272.1 SR 401.4 SS 317.5
 CRT .8974 CRS -.9897 CST -.8448
 LSA 1351.5 MSA 230.1 SSA 23.9
 EL1 1323.0 EL2 170.3 ALF 16.08

LAUNCH DATE MAR 9 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 26.688 GAL -2.86 AZL 87.54 MCA 232.95 SMA 123.50 ECC .20859 INC 2.4552 V1 29.996
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.127 GAP 9.74 AZP 91.48 TAL 190.98 TAP 63.93 RCA 97.74 APO 149.26 V2 35.023
 RC 170.474 GL 16.70 GP -22.10 ZAL 116.70 ZAP 154.67 ETS 304.35 ZAE 129.22 ETE 198.79 ZAC 149.05 ETC 192.71 CLP-167.30

PLANETOCENTRIC CONIC
 C3 15.797 VHL 3.975 DLA 33.83 RAL 42.53 RAD 6567.6 VEL 11.712 PTH 2.06 VHP 7.211 DPA -3.68 RAP 58.29 ECC 1.2600
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.68 18 37 22 3944.85 -24.78 165.91 269.00 66.20 19 43 7 3344.9 -27.78 158.05
 109.32 23 28 14 3018.24 -24.77 96.86 269.00 66.19 24 18 32 2418.2 -27.77 89.00
 70.68 18 37 22 3944.85 -24.78 165.91 269.00 66.20 19 43 7 3344.9 -27.78 158.05
 109.32 23 28 14 3018.24 -24.77 96.86 269.00 66.19 24 18 32 2418.2 -27.77 89.00
 110.00 0 13 44 2891.23 -27.98 88.42 270.46 69.51 1 1 56 2291.2 -30.50 80.14
 110.00 22 54 58 3119.86 -21.65 103.16 267.38 62.88 23 46 58 2519.9 -25.11 95.71

MID-COURSE EXECUTION ACCURACY
 SGT 4859.3 SGR 459.8 SG3 153.0
 RRT .6270 RRF .6779 RTF .8745
 SGB 4881.0 R23 .1625 R13 .8753
 SG1 4867.9 SG2 357.6 THA 3.41

ORBIT DETERMINATION ACCURACY
 ST 1235.1 SR 407.0 SS 298.3
 CRT .9151 CRS -.9788 CST -.8319
 LSA 1316.0 MSA 217.8 SSA 27.5
 EL1 1290.9 EL2 157.0 ALF 17.04

DIFFERENTIAL CORRECTIONS
 TDE .7843 TRA -.9196 TC3-5.5961 BAU 1.1832
 RDE .2823 RRA .0040 RC3 -.2692 FAU .03860
 FDE .3243 FRA .1739 FC3-2.1153 BSP 15342
 BDE .8336 BRA .9196 BC3 5.6026 FSP -489

LAUNCH DATE MAR 9 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 26.628 GAL -2.42 AZL 87.83 MCA 236.15 SMA 123.13 ECC .21047 INC 2.1692 V1 29.996
 RP 108.16 LAP -1.80 LOP 44.37 VP 37.097 GAP 9.97 AZP 91.21 TAL 189.15 TAP 65.30 RCA 97.21 APO 149.05 V2 35.036
 RC 172.518 GL 15.01 GP -20.93 ZAL 113.96 ZAP 156.04 ETS 304.07 ZAE 129.64 ETE 197.95 ZAC 151.48 ETC 192.23 CLP-168.06

PLANETOCENTRIC CONIC
 C3 15.116 VHL 3.888 DLA 33.10 RAL 46.56 RAD 6567.6 VEL 11.683 PTH 2.05 VHP 7.287 DPA -1.92 RAP 60.15 ECC 1.2488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.10 19 2 21 3907.59 -24.54 162.91 272.11 67.06 20 7 28 3307.6 -27.43 155.02
 107.90 23 35 24 3035.65 -24.53 98.09 272.10 67.05 24 26 0 2435.6 -27.42 90.21
 72.10 19 2 21 3907.59 -24.54 162.91 272.11 67.06 20 7 28 3307.6 -27.43 155.02
 107.90 23 35 24 3035.65 -24.53 98.09 272.10 67.05 24 26 0 2435.6 -27.42 90.21
 110.00 0 57 26 2795.80 -30.07 81.79 274.37 72.92 1 44 2 2195.8 -32.11 73.17
 110.00 22 43 25 3195.44 -19.24 107.69 269.34 61.18 23 36 41 2595.4 -22.93 100.50

MID-COURSE EXECUTION ACCURACY
 SGT 4929.2 SGR 464.1 SG3 151.9
 RRT .6162 RRF .6537 RTF .8754
 SGB 4951.0 R23 .1414 R13 .8760
 SG1 4937.6 SG2 364.9 THA 3.34

ORBIT DETERMINATION ACCURACY
 ST 1191.7 SR 412.8 SS 279.7
 CRT .9330 CRS -.9604 CST -.8158
 LSA 1275.2 MSA 204.3 SSA 31.8
 EL1 1253.3 EL2 141.3 ALF 18.15

DIFFERENTIAL CORRECTIONS
 TDE .7571 TRA -.7487 TC3-5.9378 BAU 1.2012
 RDE .2800 RRA .0114 RC3 -.2717 FAU .03719
 FDE .2879 FRA .2316 FC3-2.1302 BSP 15602
 BDE .8073 BRA .7487 BC3 5.9440 FSP -486

LAUNCH DATE MAR 9 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 26.569 GAL -1.97 AZL 88.10 MCA 239.35 SMA 122.77 ECC .21257 INC 1.9036 V1 29.996
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.067 GAP 10.21 AZP 90.97 TAL 187.32 TAP 66.67 RCA 96.67 APO 148.87 V2 35.050
 RC 174.540 GL 13.36 GP -19.89 ZAL 110.97 ZAP 157.29 ETS 303.62 ZAE 130.00 ETE 197.19 ZAC 153.91 ETC 191.78 CLP-168.82

PLANETOCENTRIC CONIC
 C3 14.575 VHL 3.818 DLA 32.37 RAL 50.73 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 7.375 DPA -.31 RAP 62.08 ECC 1.2399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.62 19 28 48 3869.03 -24.24 159.81 275.49 67.86 20 33 17 3269.0 -27.03 151.91
 106.38 23 42 14 3057.94 -24.23 99.67 275.48 67.85 24 33 11 2457.9 -27.02 91.76
 73.62 19 28 48 3869.03 -24.24 159.81 275.49 67.86 20 33 17 3269.0 -27.03 151.91
 106.38 23 42 14 3057.94 -24.23 99.67 275.48 67.85 24 33 11 2457.9 -27.02 91.76
 110.00 1 32 58 2728.17 -31.32 76.92 278.13 75.56 2 18 27 2128.2 -32.99 68.09
 110.00 22 41 10 3246.80 -17.52 110.69 271.98 60.17 23 35 17 2646.8 -21.36 103.66

MID-COURSE EXECUTION ACCURACY
 SGT 4988.1 SGR 468.7 SG3 150.1
 RRT .6044 RRF .6311 RTF .8760
 SGB 5010.1 R23 .1238 R13 .8766
 SG1 4996.2 SG2 372.8 THA 3.27

ORBIT DETERMINATION ACCURACY
 ST 1143.5 SR 418.6 SS 263.2
 CRT .9511 CRS -.9313 CST -.7965
 LSA 1230.8 MSA 189.6 SSA 37.0
 EL1 1211.6 EL2 122.0 ALF 19.40

DIFFERENTIAL CORRECTIONS
 TDE .7288 TRA -.5659 TC3-6.2364 BAU 1.2163
 RDE .2788 RRA .0202 RC3 -.2727 FAU .03562
 FDE .2533 FRA .2892 FC3-2.1159 BSP 15763
 BDE .7803 BRA .5663 BC3 6.2424 FSP -478

LAUNCH DATE MAR 9 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 26.511 GAL -1.50 AZL 88.35 MCA 242.55 SMA 122.42 ECC .21490 INC 1.6549 V1 29.996
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.037 GAP 10.45 AZP 90.76 TAL 185.49 TAP 68.04 RCA 96.11 APO 148.73 V2 35.063
 RC 176.542 GL 11.73 GP -18.96 ZAL 107.75 ZAP 158.46 ETS 303.01 ZAE 130.33 ETE 196.50 ZAC 156.33 ETC 191.32 CLP-169.57

PLANETOCENTRIC CONIC
 C3 14.169 VHL 3.764 DLA 31.62 RAL 55.03 RAD 6567.6 VEL 11.643 PTH 2.04 VHP 7.476 DPA 1.17 RAP 64.09 ECC 1.2332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.31 19 57 23 3827.13 -23.86 156.46 279.12 68.62 21 1 11 3227.1 -26.55 148.54
 104.69 23 47 59 3087.36 -23.85 101.74 279.12 68.60 24 39 26 2487.4 -26.54 93.83
 75.31 19 57 23 3827.13 -23.86 156.46 279.12 68.62 21 1 11 3227.1 -26.55 148.54
 104.69 23 47 59 3087.36 -23.85 101.74 279.12 68.60 24 39 26 2487.4 -26.54 93.83
 110.00 2 5 53 2671.56 -32.21 72.74 281.97 77.88 2 50 24 2071.6 -33.54 63.76
 110.00 22 42 36 3290.92 -16.01 113.21 275.05 59.39 23 37 27 2690.9 -19.95 106.31

MID-COURSE EXECUTION ACCURACY
 SGT 5052.7 SGR 473.3 SG3 148.4
 RRT .5942 RRF .6101 RTF .8783
 SGB 5074.8 R23 .1060 R13 .8788
 SG1 5060.5 SG2 380.1 THA 3.20

ORBIT DETERMINATION ACCURACY
 ST 1079.5 SR 422.8 SS 245.1
 CRT .9669 CRS -.8855 CST -.7687
 LSA 1171.2 MSA 174.6 SSA 43.7
 EL1 1155.0 EL2 100.8 ALF 20.91

DIFFERENTIAL CORRECTIONS
 TDE .6899 TRA -.3784 TC3-6.5031 BAU 1.2330
 RDE .2775 RRA .0294 RC3 -.2748 FAU .03416
 FDE .2159 FRA .3422 FC3-2.0869 BSP 16017
 BDE .7436 BRA .3796 BC3 6.5089 FSP -475

LAUNCH DATE MAR 9 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 492.152

RL 148.54 LAL .00 LOL 168.25 VL 26.453 GAL -1.02 AZL 88.58 MCA 245.76 SMA 122.08 ECC .21748 INC 1.4199 VI 29.996
 RP 108.04 LAP -1.29 LOP 54.00 VP 37.009 GAP 10.71 AZP 90.58 TAL 183.66 TAP 69.41 RCA 95.53 APO 148.63 V2 35.076
 RC 178.523 GL 10.13 GP -18.12 ZAL 104.34 ZAP 159.54 ETS 302.23 ZAE 130.63 ETE 195.88 ZAC 158.76 ETC 190.86 CLP-170.32

PLANETOCENTRIC CONIC

C3 13.899 VHL 3.728 DLA 30.82 RAL 59.45 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 7.588 DPA 2.54 RAP 66.16 ECC 1.2287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.30 20 28 59 3778.90 -23.39 152.62 283.00 69.34 21 31 58 3178.9 -25.99 144.71
 102.70 23 51 38 3127.12 -23.38 104.54 283.00 69.32 24 43 45 2527.1 -25.98 96.63
 77.30 20 28 59 3778.90 -23.39 152.62 283.00 69.34 21 31 58 3178.9 -25.99 144.71
 102.70 23 51 38 3127.12 -23.38 104.54 283.00 69.32 24 43 45 2527.1 -25.98 96.63
 110.00 2 37 43 2621.07 -32.87 68.95 285.94 80.03 3 21 24 2021.1 -33.89 59.86
 110.00 22 46 0 3332.95 -14.54 115.58 278.45 58.72 23 41 33 2732.9 -18.58 108.79

DIFFERENTIAL CORRECTIONS

TDE .6436 TRA -1.797 TC3-6.7085 BAU 1.2476
 RDE .2768 RRA .0399 RC3 -2.750 FAU .03260
 FDE .1787 FRA .3952 FC3-2.0303 BSP 16212
 BDE .7006 BRA .1841 BC3 6.7142 FSP -468

MID-COURSE EXECUTION ACCURACY

SGT 5109.1 SGR 477.7 SG3 146.3
 RRT .5833 RRF .5906 RTF .8804
 SGB 5131.4 R23 .0913 R13 .8808
 SG1 5116.8 SG2 387.4 THA 3.14

ORBIT DETERMINATION ACCURACY

ST 1005.1 SR 426.0 SS 229.4
 CRT .9801 CRS -.8159 CST -.7333
 LSA 1102.5 MSA 161.4 SSA 51.7
 EL1 1088.8 EL2 78.1 ALF 22.68

LAUNCH DATE MAR 9 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 497.797

RL 148.54 LAL .00 LOL 168.25 VL 26.396 GAL -.52 AZL 88.80 MCA 248.96 SMA 121.74 ECC .22033 INC 1.1965 VI 29.996
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.980 GAP 10.98 AZP 90.43 TAL 181.82 TAP 70.79 RCA 94.92 APO 148.56 V2 35.089
 RC 180.483 GL 8.54 GP -17.36 ZAL 100.75 ZAP 160.54 ETS 301.27 ZAE 130.90 ETE 195.32 ZAC 161.18 ETC 190.37 CLP-171.07

PLANETOCENTRIC CONIC

C3 13.768 VHL 3.710 DLA 29.96 RAL 63.96 RAD 6567.5 VEL 11.626 PTH 2.04 VHP 7.712 DPA 3.80 RAP 68.29 ECC 1.2266
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.77 21 5 15 3718.67 -22.81 147.89 287.11 70.03 22 7 14 3118.7 -25.33 139.99
 100.23 23 51 18 3183.18 -22.81 108.50 287.11 70.02 24 44 21 2583.2 -25.32 100.60
 79.77 21 5 15 3718.67 -22.81 147.89 287.11 70.03 22 7 14 3118.7 -25.33 139.99
 100.23 23 51 18 3183.18 -22.81 108.50 287.11 70.02 24 44 21 2583.2 -25.32 100.60
 110.00 3 9 6 2574.53 -33.36 65.41 290.08 82.08 3 52 1 1974.5 -34.10 56.24
 110.00 22 50 33 3375.32 -13.03 117.94 282.12 58.11 23 46 48 2775.3 -17.15 111.25

DIFFERENTIAL CORRECTIONS

TDE .5862 TRA .0260 TC3-6.8550 BAU 1.2628
 RDE .2763 RRA .0509 RC3 -.2747 FAU .03113
 FDE .1399 FRA .4442 FC3-1.9574 BSP 16468
 BDE .6481 BRA .0572 BC3 6.8605 FSP -466

MID-COURSE EXECUTION ACCURACY

SGT 5167.2 SGR 481.5 SG3 144.2
 RRT .5737 RRF .5728 RTF .8841
 SGB 5189.6 R23 .0764 R13 .8844
 SG1 5174.6 SG2 393.8 THA 3.08

ORBIT DETERMINATION ACCURACY

ST 918.1 SR 427.6 SS 215.9
 CRT .9872 CRS -.7139 CST -.6908
 LSA 1022.3 MSA 154.2 SSA 59.6
 EL1 1010.9 EL2 61.9 ALF 24.79

LAUNCH DATE MAR 9 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE .000

RL 148.54 LAL .00 LOL 168.25 VL 26.340 GAL .00 AZL 89.02 MCA 252.18 SMA 121.41 ECC .22345 INC .9823 VI 29.996
 RP 107.96 LAP -.94 LOP 60.42 VP 36.953 GAP 11.26 AZP 90.30 TAL 180.00 TAP 72.18 RCA 94.28 APO 148.54 V2 35.102
 RC 182.422 GL 6.99 GP -16.68 ZAL 97.03 ZAP 161.47 ETS 300.13 ZAE 131.15 ETE 194.81 ZAC 163.61 ETC 189.82 CLP-171.81

PLANETOCENTRIC CONIC

C3 13.779 VHL 3.712 DLA 29.04 RAL 68.50 RAD 6567.5 VEL 11.626 PTH 2.04 VHP 7.847 DPA 4.96 RAP 70.47 ECC 1.2268
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.30 21 50 57 3630.38 -22.13 141.09 291.40 70.71 22 51 28 3030.4 -24.56 133.21
 96.70 23 41 49 3271.83 -22.12 114.79 291.40 70.70 24 36 21 2671.8 -24.55 106.91
 100.00 1 11 42 2995.94 -26.62 95.88 292.88 75.87 2 1 38 2395.9 -28.30 87.48
 100.00 23 7 41 3381.50 -17.78 121.04 289.55 65.56 24 4 2 2781.5 -20.93 113.66
 110.00 3 40 14 2530.82 -33.72 62.05 294.34 84.03 4 22 25 1930.8 -34.18 52.83
 110.00 22 55 38 3419.39 -11.43 120.35 286.00 57.56 23 52 38 2819.4 -15.63 113.76

DIFFERENTIAL CORRECTIONS

TDE .5791 TRA .2510 TC3-7.1958 BAU 1.3272
 RDE .2819 RRA .0585 RC3 -.3616 FAU .03694
 FDE .1308 FRA .4701 FC3-2.3210 BSP 18493
 BDE .6441 BRA .2578 BC3 7.2049 FSP -740

MID-COURSE EXECUTION ACCURACY

SGT 5434.5 SGR 521.7 SG3 166.2
 RRT .6592 RRF .6341 RTF .9332
 SGB 5459.5 R23 .0209 R13 .9333
 SG1 5445.5 SG2 391.5 THA 3.64

ORBIT DETERMINATION ACCURACY

ST 917.7 SR 436.4 SS 220.1
 CRT .9848 CRS -.6775 CST -.7445
 LSA 1026.9 MSA 152.3 SSA 57.3
 EL1 1013.9 EL2 68.6 ALF 25.22

LAUNCH DATE MAR 9 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 509.025

RL 148.54 LAL .00 LOL 168.25 VL 26.285 GAL .54 AZL 89.22 MCA 255.39 SMA 121.09 ECC .22690 INC .7756 VI 29.996
 RP 107.92 LAP -.75 LOP 63.64 VP 36.925 GAP 11.56 AZP 90.20 TAL 178.16 TAP 73.55 RCA 93.61 APO 148.56 V2 35.114
 RC 184.340 GL 5.47 GP -16.06 ZAL 93.18 ZAP 162.33 ETS 298.80 ZAE 131.37 ETE 194.35 ZAC 166.04 ETC 189.18 CLP-172.56

PLANETOCENTRIC CONIC

C3 13.944 VHL 3.734 DLA 28.04 RAL 73.09 RAD 6567.5 VEL 11.633 PTH 2.04 VHP 7.994 DPA 6.02 RAP 72.69 ECC 1.2295
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 39 37 3340.35 -23.84 120.40 296.74 74.25 24 35 17 2740.4 -25.77 112.27
 90.00 22 29 47 3567.08 -18.88 135.16 294.95 68.49 23 29 14 2967.1 -21.63 127.57
 100.00 1 58 12 2906.24 -27.95 89.55 297.83 78.95 2 46 38 2306.2 -29.19 80.97
 100.00 22 57 49 3476.42 -15.01 126.73 293.16 63.84 23 55 46 2876.4 -18.41 119.58
 110.00 4 11 14 2489.83 -33.97 58.87 298.76 85.90 4 52 44 1889.8 -34.16 49.63
 110.00 23 1 16 3465.59 -9.73 122.85 290.10 57.07 23 59 1 2865.6 -14.00 116.35

DIFFERENTIAL CORRECTIONS

TDE .4409 TRA .4749 TC3-6.8949 BAU 1.2863
 RDE .2771 RRA .0769 RC3 -.2642 FAU .02793
 FDE .0642 FRA .5448 FC3-1.7338 BSP 16756
 BDE .5208 BRA .4810 BC3 6.9000 FSP -447

MID-COURSE EXECUTION ACCURACY

SGT 5258.8 SGR 487.4 SG3 138.9
 RRT .5517 RRF .5412 RTF .8893
 SGB 5281.4 R23 .0572 R13 .8895
 SG1 5265.7 SG2 406.0 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 736.8 SR 427.1 SS 209.4
 CRT .9485 CRS -.4132 CST -.6401
 LSA 852.8 MSA 196.4 SSA 57.8
 EL1 843.4 EL2 118.2 ALF 29.44

LAUNCH DATE MAR 9 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 514.602

RL 148.54 LAL .00 LOL 168.25 VL 26.231 GAL 1.10 AZL 89.43 MCA 258.61 SMA 120.77 ECC .23066 INC .5746 V1 29.996
 RP 107.88 LAP -.56 LOP 66.85 VP 36.898 GAP 11.87 AZP 90.11 TAL 176.34 TAP 74.94 RCA 92.92 APO 148.63 V2 35.126
 RC 186.236 GL 3.99 GP -15.51 ZAL 89.28 ZAP 163.14 ETS 297.27 ZAE 131.58 ETE 193.92 ZAC 168.48 ETC 188.36 CLP-173.29

PLANETOCENTRIC CONIC

C3 14.272 VHL 3.778 OLA 26.96 RAL 77.64 RAD 6567.6 VEL 11.647 PTH 2.04 VHP 8.153 DPA 6.99 RAP 74.96 ECC 1.2349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 43 31 3207.99 -25.98 111.30 302.12 78.33 1 36 59 2608.0 -27.33 102.90
 90.00 22 6 6 3709.67 -15.10 143.92 298.36 65.76 23 7 56 3109.7 -18.24 136.66
 100.00 2 38 48 2836.30 -28.76 84.51 302.68 81.48 3 26 5 2236.3 -29.64 75.82
 100.00 22 53 30 3556.59 -12.55 131.41 297.10 62.65 23 52 46 2956.6 -16.12 124.44
 110.00 4 41 52 2451.22 -34.11 55.86 303.27 87.67 5 22 43 1851.2 -34.06 46.62
 110.00 23 6 55 3514.44 -7.91 125.46 294.34 56.64 24 5 30 2914.4 -12.25 119.05

DIFFERENTIAL CORRECTIONS

TOE .3475 TRA .7138 TC3-6.7952 BAU 1.2975
 RDE .2777 RRA .0909 RC3 -.2565 FAU .02646
 FDE .0235 FRA .5920 FC3-1.6051 BSP 16954
 BDE .4448 BRA .7196 BC3 6.8001 FSP -444

MID-COURSE EXECUTION ACCURACY

SGT 5302.2 SGR 488.7 SG3 136.2
 RRT .5422 RRF .5266 RTF .8933
 SGB 5324.7 R23 .0468 R13 .8935
 SG1 5308.9 SG2 410.1 THA 2.88

ORBIT DETERMINATION ACCURACY

ST 659.1 SR 423.7 SS 215.9
 CRT .8586 CRS -.2251 CST -.6660
 LSA 770.7 MSA 253.1 SSA 49.8
 EL1 760.6 EL2 188.2 ALF 31.01

LAUNCH DATE MAR 9 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 520.151

RL 148.54 LAL .00 LOL 168.25 VL 26.177 GAL 1.68 AZL 89.62 MCA 261.83 SMA 120.47 ECC .23478 INC .3781 V1 29.996
 RP 107.85 LAP -.37 LOP 70.07 VP 36.871 GAP 12.20 AZP 90.05 TAL 174.52 TAP 76.34 RCA 92.18 APO 148.75 V2 35.138
 RC 188.109 GL 2.58 GP -15.00 ZAL 85.35 ZAP 163.88 ETS 295.53 ZAE 131.78 ETE 193.54 ZAC 170.91 ETC 187.20 CLP-174.03

PLANETOCENTRIC CONIC

C3 14.777 VHL 3.844 OLA 25.82 RAL 82.12 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 8.325 DPA 7.88 RAP 77.27 ECC 1.2432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 28 42 3124.09 -27.00 105.37 307.17 81.13 2 20 46 2524.1 -27.95 96.84
 90.00 21 56 40 3809.01 -12.24 149.81 302.30 64.26 23 0 9 3209.0 -15.60 142.75
 100.00 3 16 17 2777.25 -29.28 80.20 307.51 83.69 4 2 34 2177.2 -29.84 71.44
 100.00 22 51 46 3631.08 -10.19 135.68 301.24 61.74 23 52 17 3031.1 -13.89 128.84
 110.00 5 11 58 2415.27 -34.18 53.06 307.86 89.33 5 52 14 1815.3 -33.89 43.82
 110.00 23 12 34 3565.83 -5.98 128.19 298.69 56.28 24 12 0 2965.8 -10.37 121.85

DIFFERENTIAL CORRECTIONS

TOE .2457 TRA .9686 TC3-6.6007 BAU 1.3049
 RDE .2793 RRA .1061 RC3 -.2443 FAU .02485
 FDE -.0142 FRA .6415 FC3-1.4559 BSP 17018
 BDE .3720 BRA .9744 BC3 6.6052 FSP -432

MID-COURSE EXECUTION ACCURACY

SGT 5334.8 SGR 489.4 SG3 133.3
 RRT .5314 RRF .5137 RTF .8960
 SGB 5357.1 R23 .0410 R13 .8961
 SG1 5341.1 SG2 414.1 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 623.6 SR 419.7 SS 231.0
 CRT .6828 CRS -.0605 CST -.7525
 LSA 715.0 MSA 324.5 SSA 42.1
 EL1 700.3 EL2 273.0 ALF 29.62

LAUNCH DATE MAR 9 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 525.667

RL 148.54 LAL .00 LOL 168.25 VL 26.124 GAL 2.28 AZL 89.82 MCA 265.05 SMA 120.17 ECC .23928 INC .1844 V1 29.996
 RP 107.81 LAP -.18 LOP 73.29 VP 36.845 GAP 12.55 AZP 90.02 TAL 172.70 TAP 77.75 RCA 91.41 APO 148.92 V2 35.150
 RC 189.959 GL 1.23 GP -14.53 ZAL 81.44 ZAP 164.57 ETS 293.57 ZAE 131.96 ETE 193.18 ZAC 173.34 ETC 185.32 CLP-174.76

PLANETOCENTRIC CONIC

C3 15.477 VHL 3.934 OLA 24.63 RAL 86.49 RAD 6567.6 VEL 11.699 PTH 2.06 VHP 8.512 DPA 8.68 RAP 79.62 ECC 1.2547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 8 31 3057.89 -27.61 100.62 312.13 83.44 2 59 29 2457.9 -28.23 92.01
 90.00 21 51 44 3895.96 -9.62 154.85 306.47 63.24 22 56 40 3296.0 -13.13 147.94
 100.00 3 51 27 2726.06 -29.60 76.43 312.34 85.65 4 36 53 2126.1 -29.89 67.63
 100.00 22 51 30 3703.02 -7.84 139.73 305.52 61.06 23 53 13 3103.0 -11.64 133.01
 110.00 5 41 20 2382.27 -34.17 50.48 312.51 90.86 6 21 2 1782.3 -33.68 41.27
 110.00 23 18 6 3619.58 -3.94 131.01 303.13 56.02 24 18 26 3019.6 -8.38 124.73

DIFFERENTIAL CORRECTIONS

TDE .1268 TRA 1.2306 TC3-6.3446 BAU 1.3137
 RDE .2811 RRA .1214 RC3 -.2313 FAU .02342
 FDE -.0545 FRA .6877 FC3-1.3101 BSP 17184
 BDE .3084 BRA 1.2366 BC3 6.3489 FSP -426

MID-COURSE EXECUTION ACCURACY

SGT 5370.5 SGR 488.4 SG3 130.5
 RRT .5213 RRF .5006 RTF .9001
 SGB 5392.7 R23 .0534 R13 .9002
 SG1 5376.6 SG2 416.3 THA 2.73

ORBIT DETERMINATION ACCURACY

ST 637.5 SR 413.6 SS 251.0
 CRT .4208 CRS .0922 CST -.8524
 LSA 697.9 MSA 390.0 SSA 35.7
 EL1 671.2 EL2 356.4 ALF 21.66

LAUNCH DATE MAR 9 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 531.145

RL 148.54 LAL .00 LOL 168.25 VL 26.072 GAL 2.91 AZL 90.01 MCA 268.27 SMA 119.87 ECC .24421 INC .0000 V1 29.996
 RP 107.78 LAP .01 LOP 76.52 VP 36.819 GAP 12.92 AZP 90.00 TAL 170.90 TAP 79.17 RCA 90.60 APO 149.14 V2 35.161
 RC 191.786 GL -.05 GP -14.11 ZAL 77.58 ZAP 165.20 ETS 291.39 ZAE 132.13 ETE 192.86 ZAC 175.76 ETC 181.45 CLP-175.50

PLANETOCENTRIC CONIC

C3 16.393 VHL 4.049 OLA 23.40 RAL 90.72 RAD 6567.7 VEL 11.738 PTH 2.07 VHP 8.713 OPA 9.40 RAP 81.99 ECC 1.2698
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 44 55 3002.85 -27.97 96.64 317.04 85.40 3 34 58 2402.9 -28.32 87.99
 90.00 21 49 6 3977.10 -7.10 159.48 310.78 62.51 22 55 24 3377.1 -10.72 152.68
 100.00 4 24 35 2681.49 -29.79 73.13 317.17 87.38 5 9 17 2081.5 -29.83 64.32
 100.00 22 52 7 3773.69 -5.50 143.66 309.91 60.57 23 55 1 3173.7 -9.38 137.03
 110.00 6 9 44 2352.56 -34.12 48.16 317.18 92.23 6 48 56 1752.6 -33.43 38.99
 110.00 23 23 28 3675.39 -1.81 133.93 307.62 55.86 24 24 44 3075.4 -6.28 127.69

DIFFERENTIAL CORRECTIONS

TDE -.0034 TRA 1.5064 TC3-6.0205 BAU 1.3203
 RDE .2836 RRA .1374 RC3 -.2156 FAU .02198
 FDE -.0941 FRA .7346 FC3-1.1605 BSP 17329
 BDE .2837 BRA 1.5126 BC3 6.0244 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 5400.2 SGR 486.5 SG3 127.7
 RRT .5107 RRF .4878 RTF .9038
 SGB 5422.0 R23 .0272 R13 .9039
 SG1 5405.9 SG2 417.6 THA 2.65

ORBIT DETERMINATION ACCURACY

ST 712.0 SR 406.4 SS 275.6
 CRT .1490 CRS .2131 CST -.9268
 LSA 758.9 MSA 413.7 SSA 30.7
 EL1 715.7 EL2 399.8 ALF 7.08

LAUNCH DATE MAR 9 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 536.580

RL 148.54 LAL .00 LOL 168.25 VL 26.021 GAL 3.57 AZL 90.20 MCA 271.49 SMA 119.58 ECC .24959 INC .1977 V1 29.996
 RP 107.75 LAP .20 LOP 79.74 VP 36.793 GAP 13.31 AZP 90.00 TAL 169.11 TAP 80.61 RCA 89.74 APO 149.43 V2 35.172
 RC 193.588 GL -1.23 GP -13.73 ZAL 73.82 ZAP 165.77 ETS 288.97 ZAE 132.29 ETE 192.56 ZAC 178.11 ETC 168.02 CLP -176.23

PLANETOCENTRIC CONIC

C3 17.550 VHL 4.189 DLA 22.14 RAL 94.79 RAD 6567.7 VEL 11.787 PTH 2.08 VHP 8.931 DPA 10.05 RAP 84.39 ECC 1.2888
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 18 36 2956.45 -28.18 93.26 321.91 87.08 4 7 53 2356.5 -28.29 84.60
 90.00 21 47 51 4054.92 -4.63 163.87 315.18 62.03 22 55 26 3454.9 -8.34 157.15
 100.00 4 55 49 2642.98 -29.87 70.27 321.97 88.88 5 39 52 2043.0 -29.71 61.47
 100.00 22 53 19 3843.62 -3.14 147.52 314.36 60.26 23 57 23 3243.6 -7.08 140.95
 110.00 6 36 59 2326.49 -34.03 46.13 321.88 93.43 7 15 45 1726.5 -33.18 36.99
 110.00 23 28 39 3732.87 .39 136.93 312.16 55.82 24 30 52 3132.9 -4.10 130.72

DIFFERENTIAL CORRECTIONS

TOE -.1449 TRA 1.7953 TC3 -5.6459 BAU 1.3255
 RDE .2869 RRA .1537 RC3 -.1985 FAU .02059
 FDE -.1334 FRA .7815 FC3 -1.0155 BSP 17466
 BOE .3215 BRA 1.8018 BC3 5.6494 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 5426.2 SGR 482.8 SG3 124.9
 RRT .5001 RRF .4753 RTF .9079
 SGB 5447.6 R23 .0214 R13 .9080
 SG1 5431.6 SG2 417.7 THA 2.56

ORBIT DETERMINATION ACCURACY

ST 831.8 SR 398.3 SS 302.6
 CRT -.0692 CRS .3067 CST -.9660
 LSA 883.1 MSA 401.9 SSA 26.8
 EL1 832.4 EL2 397.1 ALF 177.54

LAUNCH DATE MAR 9 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 541.966

RL 148.54 LAL .00 LOL 168.25 VL 25.971 GAL 4.27 AZL 90.39 MCA 274.72 SMA 119.30 ECC .25547 INC .3899 V1 29.996
 RP 107.71 LAP .39 LOP 82.97 VP 36.767 GAP 13.73 AZP 90.03 TAL 167.33 TAP 82.06 RCA 88.82 APO 149.78 V2 35.182
 RC 195.366 GL -2.32 GP -13.38 ZAL 70.17 ZAP 166.29 ETS 286.32 ZAE 132.43 ETE 192.28 ZAC 178.96 ETC -58.36 CLP -176.97

PLANETOCENTRIC CONIC

C3 18.979 VHL 4.357 DLA 20.88 RAL 98.66 RAD 6567.8 VEL 11.847 PTH 2.10 VHP 9.167 DPA 10.62 RAP 86.81 ECC 1.3124
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 49 53 2917.47 -28.28 90.41 326.74 88.51 4 38 30 2317.5 -28.19 81.75
 90.00 21 47 29 4130.52 -2.20 168.10 319.64 61.76 22 56 19 3530.5 -5.96 161.44
 100.00 5 25 10 2610.23 -29.89 67.83 326.76 90.16 6 8 40 2010.2 -29.55 59.04
 100.00 22 54 53 3912.99 -.80 151.33 318.85 60.12 24 0 6 3313.0 -4.77 144.80
 110.00 7 2 56 2304.33 -33.93 44.41 326.57 94.44 7 41 21 1704.3 -32.94 35.31
 110.00 23 33 36 3791.65 2.63 140.00 316.71 55.91 24 36 47 3191.7 -1.86 133.79

DIFFERENTIAL CORRECTIONS

TOE -.2927 TRA 2.1031 TC3 -5.2250 BAU 1.3265
 RDE .2915 RRA .1705 RC3 -.1794 FAU .01914
 FDE -.1700 FRA .8307 FC3 -.8731 BSP 17488
 BOE .4131 BRA 2.1100 BC3 5.2280 FSP -402

MID-COURSE EXECUTION ACCURACY

SGT 5444.0 SGR 478.6 SG3 122.1
 RRT .4892 RRF .4642 RTF .9115
 SGB 5465.0 R23 .0179 R13 .9116
 SG1 5449.1 SG2 417.0 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 977.5 SR 390.1 SS 330.0
 CRT -.2177 CRS .3713 CST -.9840
 LSA 1034.8 MSA 381.0 SSA 23.8
 EL1 981.9 EL2 379.1 ALF 174.16

LAUNCH DATE MAR 9 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 547.294

RL 148.54 LAL .00 LOL 168.25 VL 25.922 GAL 5.00 AZL 90.58 MCA 277.95 SMA 119.03 ECC .26191 INC .5838 V1 29.996
 RP 107.68 LAP .58 LOP 86.20 VP 36.741 GAP 14.19 AZP 90.08 TAL 165.58 TAP 83.53 RCA 87.85 APO 150.20 V2 35.192
 RC 197.118 GL -3.32 GP -13.05 ZAL 66.67 ZAP 166.75 ETS 283.42 ZAE 132.56 ETE 192.02 ZAC 176.76 ETC 24.94 CLP -177.71

PLANETOCENTRIC CONIC

C3 20.717 VHL 4.552 DLA 19.63 RAL 102.33 RAD 6567.8 VEL 11.920 PTH 2.12 VHP 9.423 DPA 11.12 RAP 89.25 ECC 1.3410
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 18 56 2885.22 -28.32 88.05 331.53 89.69 5 7 1 2285.2 -28.06 79.40
 90.00 21 47 42 4204.41 .18 172.23 324.12 61.68 22 57 46 3604.4 -3.61 165.59
 100.00 5 52 38 2583.06 -29.87 65.81 331.51 91.23 6 35 41 1983.1 -29.38 57.04
 100.00 22 56 41 3981.80 1.54 155.11 323.37 60.14 24 3 2 3381.8 -2.45 148.59
 110.00 7 27 30 2286.28 -33.82 43.01 331.25 95.26 8 5 36 1686.3 -32.73 33.94
 110.00 23 38 18 3851.35 4.90 143.12 321.27 56.13 24 42 30 3251.3 .42 136.91

DIFFERENTIAL CORRECTIONS

TOE -.4547 TRA 2.4214 TC3 -4.7912 BAU 1.3278
 RDE .2967 RRA .1870 RC3 -.1605 FAU .01782
 FDE -.2077 FRA .8789 FC3 -.7445 BSP 17612
 BOE .5429 BRA 2.4287 BC3 4.7938 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 5461.1 SGR 472.6 SG3 119.3
 RRT .4775 RRF .4519 RTF .9158
 SGB 5481.5 R23 .0138 R13 .9158
 SG1 5465.8 SG2 414.9 THA 2.38

ORBIT DETERMINATION ACCURACY

ST 1134.6 SR 381.0 SS 357.6
 CRT -.3248 CRS .4252 CST -.9921
 LSA 1196.3 MSA 358.8 SSA 21.5
 EL1 1142.1 EL2 358.0 ALF 173.09

LAUNCH DATE MAR 9 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 552.556

RL 148.54 LAL .00 LOL 168.25 VL 25.873 GAL 5.76 AZL 90.78 MCA 281.18 SMA 118.76 ECC .26895 INC .7809 V1 29.996
 RP 107.66 LAP .77 LOP 89.43 VP 36.716 GAP 14.67 AZP 90.15 TAL 163.84 TAP 85.02 RCA 86.82 APO 150.70 V2 35.201
 RC 198.846 GL -4.21 GP -12.76 ZAL 63.33 ZAP 167.15 ETS 280.28 ZAE 132.67 ETE 191.78 ZAC 174.37 ETC 19.07 CLP -178.46

PLANETOCENTRIC CONIC

C3 22.809 VHL 4.776 DLA 18.41 RAL 105.79 RAD 6567.9 VEL 12.008 PTH 2.14 VHP 9.701 DPA 11.55 RAP 91.70 ECC 1.3754
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 45 53 2859.24 -28.31 86.15 336.27 90.64 5 33 32 2259.2 -27.92 77.51
 90.00 21 48 19 4276.83 2.52 176.27 328.62 61.79 22 59 36 3676.8 -1.27 169.64
 100.00 6 18 16 2561.31 -29.83 64.20 336.23 92.08 7 0 58 1961.3 -29.22 55.44
 100.00 22 58 37 4049.99 3.84 158.86 327.89 60.33 24 6 7 3450.0 -.13 152.33
 110.00 7 50 36 2272.46 -33.73 41.94 335.91 95.89 8 28 28 1672.5 -32.55 32.90
 110.00 23 42 47 3911.61 7.18 146.30 325.83 56.49 24 47 59 3311.6 2.72 140.05

DIFFERENTIAL CORRECTIONS

TOE -.6254 TRA 2.7574 TC3 -4.3469 BAU 1.3262
 RDE .3030 RRA .2034 RC3 -.1414 FAU .01651
 FDE -.2447 FRA .9285 FC3 -.6267 BSP 17710
 BOE .6950 BRA 2.7649 BC3 4.3492 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 5473.4 SGR 465.3 SG3 116.7
 RRT .4652 RRF .4396 RTF .9201
 SGB 5493.1 R23 .0103 R13 .9201
 SG1 5477.7 SG2 411.6 THA 2.28

ORBIT DETERMINATION ACCURACY

ST 1293.3 SR 371.6 SS 384.6
 CRT -.3985 CRS .4659 CST -.9957
 LSA 1357.7 MSA 338.8 SSA 19.5
 EL1 1302.3 EL2 338.4 ALF 172.99

LAUNCH DATE MAR 9 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.825 GAL 6.58 AZL 90.98 MCA 284.41 SMA 118.50 ECC .27668 INC .9825 V1 29.996
 RP 107.63 LAP .95 LOP 92.66 VP 36.690 GAP 15.20 AZP 90.24 TAL 162.12 TAP 86.54 RCA 85.71 APO 151.28 V2 35.209
 RC 200.549 GL -5.02 GP -12.49 ZAL 60.16 ZAP 167.49 ETS 276.89 ZAE 132.77 ETE 191.55 ZAC 171.96 ETC 16.68 CLP-179.22

PLANETOCENTRIC CONIC
 C3 25.306 VHL 5.031 DLA 17.23 RAL 109.03 RAD 6568.0 VEL 12.111 PTH 2.17 VHP 10.003 DPA 11.91 RAP 94.16 ECC 1.4165
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 10 50 2839.13 -28.29 84.68 340.97 91.38 5 58 9 2239.1 -27.79 76.05
 90.00 21 49 14 4347.86 4.79 180.25 333.12 62.06 23 1 42 3747.9 1.02 173.60
 100.00 6 42 7 2544.79 -29.78 62.97 340.91 92.72 7 24 31 1944.8 -29.08 54.23
 100.00 23 0 38 4117.43 6.11 162.59 332.40 60.68 24 9 16 3517.4 2.15 156.03
 110.00 8 12 13 2262.87 -33.66 41.20 340.55 96.32 8 49 56 1662.9 -32.42 32.19
 110.00 23 47 1 3972.11 9.44 149.53 330.37 56.99 24 53 13 3372.1 5.03 143.22

DIFFERENTIAL CORRECTIONS
 TDE -.8047 TRA 3.1115 TC3-3.9043 BAU 1.3216 SGT 5480.7 SGR 456.8 SG3 114.1 ST 1446.7 SR 362.1 SS 410.3
 RDE .3104 RRA .2195 RC3 -.1227 FAU .01524 RRT .4521 RRF .4271 RTF .9245 CRT -.4508 CRS .4970 CST -.9976
 FDE -.2807 FRA .9799 FC3 -.5213 BSP 17791 SGB 5499.7 R23 .0076 R13 .9245 LSA 1512.9 MSA 321.3 SSA 18.0
 BDE .8625 BRA 3.1193 BC3 3.9063 FSP -382 SG1 5484.6 SG2 407.2 THA 2.17 EL1 1456.4 EL2 321.1 ALF 173.23

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 9 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.778 GAL 7.44 AZL 91.19 MCA 287.65 SMA 118.24 ECC .28515 INC 1.1901 V1 29.996
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.665 GAP 15.76 AZP 90.36 TAL 160.44 TAP 88.09 RCA 84.53 APO 151.96 V2 35.217
 RC 202.227 GL -5.73 GP -12.24 ZAL 57.18 ZAP 167.76 ETS 273.28 ZAE 132.84 ETE 191.33 ZAC 169.55 ETC 15.37 CLP-180.00

PLANETOCENTRIC CONIC
 C3 28.276 VHL 5.318 DLA 16.10 RAL 112.05 RAD 6568.1 VEL 12.233 PTH 2.20 VHP 10.333 DPA 12.20 RAP 96.62 ECC 1.4653
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 33 53 2824.54 -28.26 83.62 345.62 91.91 6 20 57 2224.5 -27.69 75.00
 90.00 21 50 20 4417.52 7.00 184.17 337.62 62.49 23 3 57 3817.5 3.26 177.49
 100.00 7 4 12 2533.28 -29.74 62.12 345.55 93.17 7 46 25 1933.3 -28.98 53.39
 100.00 23 2 42 4184.01 8.31 166.30 336.91 61.18 24 12 26 3584.0 4.40 159.70
 110.00 8 32 21 2257.47 -33.62 40.78 345.16 96.57 9 9 58 1657.5 -32.35 31.78
 110.00 23 51 2 4032.59 11.66 152.80 334.90 57.64 24 58 14 3432.6 7.31 146.41

DIFFERENTIAL CORRECTIONS
 TDE -.9897 TRA 3.4885 TC3-3.4683 BAU 1.3117 SGT 5481.7 SGR 447.3 SG3 111.5 ST 1589.6 SR 352.9 SS 434.2
 RDE .3191 RRA .2351 RC3 -.1045 FAU .01394 RRT .4382 RRF .4147 RTF .9290 CRT -.4876 CRS .5195 CST -.9985
 FDE -.3150 FRA 1.0343 FC3 -.4268 BSP 17778 SGB 5499.9 R23 .0061 R13 .9290 LSA 1657.1 MSA 306.3 SSA 16.7
 BDE 1.0399 BRA 3.4964 BC3 3.4699 FSP -372 SG1 5485.2 SG2 401.8 THA 2.06 EL1 1599.3 EL2 306.2 ALF 173.59

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 9 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.732 GAL 8.35 AZL 91.41 MCA 290.88 SMA 117.99 ECC .29447 INC 1.4053 V1 29.996
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.640 GAP 16.38 AZP 90.50 TAL 158.79 TAP 89.67 RCA 83.25 APO 152.74 V2 35.225
 RC 203.880 GL -6.36 GP -12.02 ZAL 54.38 ZAP 167.96 ETS 269.46 ZAE 132.90 ETE 191.12 ZAC 167.16 ETC 14.54 CLP 179.22

PLANETOCENTRIC CONIC
 C3 31.797 VHL 5.639 DLA 15.03 RAL 114.87 RAD 6568.3 VEL 12.376 PTH 2.23 VHP 10.695 DPA 12.43 RAP 99.08 ECC 1.5233
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 55 7 2815.12 -28.23 82.93 350.22 92.26 6 42 2 2215.1 -27.62 74.32
 90.00 21 51 33 4485.77 9.13 188.06 342.10 63.08 23 6 19 3885.8 5.44 181.32
 100.00 7 24 36 2526.52 -29.71 61.62 350.14 93.43 8 6 43 1926.5 -28.92 52.90
 100.00 23 4 45 4249.59 10.44 170.01 341.40 61.83 24 15 34 3649.6 6.59 163.33
 110.00 8 51 2 2256.11 -33.61 40.68 349.73 96.63 9 28 38 1656.1 -32.33 31.68
 110.00 23 54 49 4092.77 13.83 156.12 339.41 58.43 25 3 2 3492.8 9.56 149.63

DIFFERENTIAL CORRECTIONS
 TDE-1.1897 TRA 3.8838 TC3-3.0550 BAU 1.2992 SGT 5479.7 SGR 436.3 SG3 109.1 ST 1724.7 SR 343.4 SS 457.4
 RDE .3289 RRA .2494 RC3 -.0878 FAU .01273 RRT .4222 RRF .4006 RTF .9340 CRT -.5187 CRS .5401 CST -.9991
 FDE -.3502 FRA 1.0898 FC3 -.3467 BSP 17816 SGB 5497.1 R23 .0046 R13 .9340 LSA 1793.4 MSA 292.0 SSA 15.5
 BDE 1.2343 BRA 3.8918 BC3 3.0563 FSP -365 SG1 5482.9 SG2 395.3 THA 1.94 EL1 1734.1 EL2 292.0 ALF 173.93

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 9 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.687 GAL 9.33 AZL 91.63 MCA 294.12 SMA 117.75 ECC .30474 INC 1.6303 V1 29.996
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.615 GAP 17.06 AZP 90.67 TAL 157.18 TAP 91.30 RCA 81.87 APO 153.64 V2 35.232
 RC 205.508 GL -6.91 GP -11.81 ZAL 51.77 ZAP 168.09 ETS 265.44 ZAE 132.93 ETE 190.92 ZAC 164.78 ETC 13.97 CLP 178.41

PLANETOCENTRIC CONIC
 C3 35.966 VHL 5.997 DLA 14.02 RAL 117.48 RAD 6568.4 VEL 12.543 PTH 2.27 VHP 11.092 DPA 12.60 RAP 101.53 ECC 1.5919
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 14 38 2810.51 -28.22 82.59 354.76 92.43 7 1 29 2210.5 -27.59 73.98
 90.00 21 52 51 4552.54 11.16 191.91 346.56 63.81 23 8 44 3952.5 7.55 185.09
 100.00 7 43 24 2524.23 -29.70 61.45 354.67 93.52 8 25 28 1924.2 -28.90 52.73
 100.00 23 6 46 4314.05 12.49 173.70 345.87 62.62 24 18 41 3714.1 8.72 166.93
 110.00 9 8 18 2258.61 -33.63 40.87 354.26 96.51 9 45 56 1658.6 -32.36 31.87
 110.00 0 2 18 4152.44 15.93 159.46 343.90 59.35 1 11 31 3552.4 11.75 152.86

DIFFERENTIAL CORRECTIONS
 TDE-1.3944 TRA 4.3021 TC3-2.6697 BAU 1.2842 SGT 5474.9 SGR 424.1 SG3 106.7 ST 1843.7 SR 333.9 SS 479.8
 RDE .3399 RRA .2626 RC3 -.0724 FAU .01154 RRT .4052 RRF .3853 RTF .9388 CRT -.5422 CRS .5575 CST -.9993
 FDE -.3853 FRA 1.1483 FC3 -.2779 BSP 17892 SGB 5491.3 R23 .0032 R13 .9388 LSA 1913.8 MSA 279.2 SSA 14.6
 BDE 1.4352 BRA 4.3101 BC3 2.6707 FSP -359 SG1 5477.6 SG2 387.5 THA 1.81 EL1 1852.7 EL2 279.2 ALF 174.26

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 9 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 577.386

RL 148.54 LAL .00 LOL 168.25 VL 25.643 GAL 10.38 AZL 91.87 HCA 297.35 SMA 117.52 ECC .31607 INC 1.8669 V1 29.996
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.590 GAP 17.79 AZP 90.86 TAL 155.62 TAP 92.98 RCA 80.37 APO 154.66 V2 35.238
 RC 207.111 GL -7.38 GP -11.62 ZAL 49.35 ZAP 168.14 ETS 261.27 ZAE 132.94 ETE 190.72 ZAC 162.41 ETC 13.54 CLP 177.59

PLANETOCENTRIC CONIC

C3 40.906 VHL 6.396 DLA 13.07 RAL 119.89 RAD 6568.6 VEL 12.739 PTH 2.32 VHP 11.529 DPA 12.71 RAP 103.96 ECC 1.6732
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 32 32 2810.32 -28.22 82.58 359.23 92.43 7 19 22 2210.3 -27.58 73.97
 90.00 21 54 13 4617.76 13.09 195.73 350.98 64.67 23 11 10 4017.8 9.57 188.82
 100.00 8 0 40 2526.08 -29.71 61.58 359.14 93.45 8 42 46 1926.1 -28.92 52.87
 100.00 23 8 46 4377.23 14.43 177.38 350.31 63.54 24 21 43 3777.2 10.76 170.51
 110.00 9 24 12 2264.71 -33.68 41.34 358.75 96.24 10 1 57 1664.7 -32.45 32.32
 110.00 0 5 39 4211.37 17.95 162.85 348.37 60.41 1 15 50 3611.4 13.87 156.10

DIFFERENTIAL CORRECTIONS

TDE-1.6115 TRA 4.7473 TC3-2.3083 BAU 1.2628
 RDE .3522 RRA .2741 RC3 -.0584 FAU .01036
 FDE -.4203 FRA 1.2104 FC3 -.2193 BSP 17929
 BOE 1.6495 BRA 4.7552 BC3 2.3090 FSP -352

MID-COURSE EXECUTION ACCURACY

SGT 5464.8 SGR 410.7 SG3 104.4
 RRT .3856 RRF .3682 RTF .9439
 SGB 5480.2 R23 .0027 R13 .9439
 SG1 5467.1 SG2 378.8 THA 1.67

ORBIT DETERMINATION ACCURACY

ST 1951.2 SR 324.5 SS 501.4
 CRT -.5627 CRS .5727 CST -.9995
 LSA 2023.0 MSA 267.0 SSA 13.7
 EL1 1959.9 EL2 267.0 ALF 174.55

LAUNCH DATE MAR 9 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 581.912

RL 148.54 LAL .00 LOL 168.25 VL 25.601 GAL 11.51 AZL 92.12 HCA 300.59 SMA 117.29 ECC .32862 INC 2.1178 V1 29.996
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.565 GAP 18.60 AZP 91.08 TAL 154.12 TAP 94.71 RCA 78.74 APO 155.83 V2 35.243
 RC 208.690 GL -7.79 GP -11.44 ZAL 47.12 ZAP 168.11 ETS 256.96 ZAE 132.91 ETE 190.53 ZAC 160.08 ETC 13.22 CLP 176.74

PLANETOCENTRIC CONIC

C3 46.767 VHL 6.839 DLA 12.20 RAL 122.11 RAD 6568.7 VEL 12.967 PTH 2.36 VHP 12.012 DPA 12.76 RAP 106.37 ECC 1.7697
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 48 53 2814.17 -28.23 82.86 3.63 92.29 7 35 47 2214.2 -27.61 74.25
 90.00 21 55 35 4681.30 14.91 199.51 355.37 65.64 23 13 36 4081.3 11.50 192.49
 100.00 8 16 28 2531.73 -29.73 62.00 3.54 93.23 8 58 40 1931.7 -28.97 53.28
 100.00 23 10 41 4438.98 16.27 181.04 354.72 64.57 24 24 40 3839.0 12.72 174.05
 110.00 9 38 47 2274.14 -33.74 42.07 3.17 95.81 10 16 41 1674.1 -32.57 33.03
 110.00 0 8 47 4269.34 19.86 166.25 352.80 61.59 1 19 56 3669.3 15.91 159.36

DIFFERENTIAL CORRECTIONS

TDE-1.8354 TRA 5.2257 TC3-1.9712 BAU 1.2328
 RDE .3662 RRA .2836 RC3 -.0459 FAU .00913
 FDE -.4547 FRA 1.2778 FC3 -.1691 BSP 17847
 BOE 1.8716 BRA 5.2334 BC3 1.9717 FSP -342

MID-COURSE EXECUTION ACCURACY

SGT 5449.5 SGR 396.4 SG3 102.2
 RRT .3639 RRF .3496 RTF .9490
 SGB 5463.9 R23 .0028 R13 .9490
 SG1 5451.4 SG2 369.1 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 2043.8 SR 315.4 SS 522.2
 CRT -.5797 CRS .5855 CST -.9996
 LSA 2117.4 MSA 255.9 SSA 12.9
 EL1 2052.1 EL2 255.9 ALF 174.81

LAUNCH DATE MAR 9 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 586.218

RL 148.54 LAL .00 LOL 168.25 VL 25.559 GAL 12.73 AZL 92.39 HCA 303.83 SMA 117.07 ECC .34255 INC 2.3863 V1 29.996
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.540 GAP 19.50 AZP 91.33 TAL 152.69 TAP 96.52 RCA 76.97 APO 157.17 V2 35.248
 RC 210.244 GL -8.14 GP -11.28 ZAL 45.06 ZAP 167.99 ETS 252.58 ZAE 132.85 ETE 190.34 ZAC 157.77 ETC 12.97 CLP 175.85

PLANETOCENTRIC CONIC

C3 53.738 VHL 7.331 DLA 11.39 RAL 124.15 RAD 6568.9 VEL 13.232 PTH 2.42 VHP 12.549 DPA 12.76 RAP 108.74 ECC 1.8844
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 3 46 2821.69 -28.25 83.41 7.94 92.02 7 50 48 2221.7 -27.67 74.79
 90.00 21 56 56 4743.02 16.61 203.25 359.71 66.73 23 15 59 4143.0 13.32 196.12
 100.00 8 30 51 2500.83 -29.77 62.68 7.86 92.87 9 13 12 1940.8 -29.05 53.95
 100.00 23 12 32 4499.12 17.99 184.67 359.07 65.72 24 27 31 3899.1 14.57 177.56
 110.00 9 52 6 2286.59 -33.83 43.03 7.53 95.25 10 30 13 1686.6 -32.73 33.97
 110.00 0 11 43 4326.12 21.66 169.67 357.19 62.89 1 23 49 3726.1 17.85 162.61

DIFFERENTIAL CORRECTIONS

TDE-2.0768 TRA 5.7319 TC3-1.6670 BAU 1.1979
 RDE .3815 RRA .2903 RC3 -.0351 FAU .00795
 FDE -.4912 FRA 1.3488 FC3 -.1281 BSP 17880
 BOE 2.1116 BRA 5.7392 BC3 1.6674 FSP -336

MID-COURSE EXECUTION ACCURACY

SGT 5430.8 SGR 380.9 SG3 100.0
 RRT .3382 RRF .3269 RTF .9542
 SGB 5444.1 R23 .0030 R13 .9542
 SG1 5432.3 SG2 358.4 THA 1.36

ORBIT DETERMINATION ACCURACY

ST 2126.0 SR 306.1 SS 543.7
 CRT -.5972 CRS .5996 CST -.9997
 LSA 2202.1 MSA 244.7 SSA 12.2
 EL1 2134.0 EL2 244.6 ALF 175.02

LAUNCH DATE MAR 9 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 590.255

RL 148.54 LAL .00 LOL 168.25 VL 25.518 GAL 14.06 AZL 92.68 HCA 307.07 SMA 116.85 ECC .35805 INC 2.6760 V1 29.996
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.516 GAP 20.49 AZP 91.61 TAL 151.34 TAP 98.40 RCA 75.01 APO 158.69 V2 35.252
 RC 211.773 GL -8.44 GP -11.13 ZAL 43.19 ZAP 167.78 ETS 248.14 ZAE 132.74 ETE 190.14 ZAC 155.50 ETC 12.78 CLP 174.93

PLANETOCENTRIC CONIC

C3 62.060 VHL 7.878 DLA 10.65 RAL 126.00 RAD 6569.2 VEL 13.543 PTH 2.48 VHP 13.147 DPA 12.71 RAP 111.08 ECC 2.0213
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 17 14 2832.50 -28.27 84.20 12.15 91.62 8 4 27 2232.5 -27.75 75.57
 90.00 21 58 16 4802.71 18.17 206.93 3.97 97.90 23 18 19 4202.7 15.02 199.67
 100.00 8 43 53 2553.02 -29.80 63.58 12.09 92.40 9 26 26 1953.0 -29.15 54.84
 100.00 23 14 18 4557.43 19.59 188.27 3.35 66.96 24 30 16 3957.4 16.30 181.02
 110.00 10 4 11 2301.76 -33.91 44.21 11.79 94.56 10 42 33 1701.8 -32.91 35.11
 110.00 0 14 26 4381.46 23.34 173.09 1.52 64.29 1 27 27 3781.5 19.69 165.86

DIFFERENTIAL CORRECTIONS

TDE-2.3311 TRA 6.2757 TC3-1.3901 BAU 1.1536
 RDE .3984 RRA .2938 RC3 -.0258 FAU .00673
 FDE -.5287 FRA 1.4257 FC3 -.0939 BSP 17879
 BOE 2.3649 BRA 6.2826 BC3 1.3903 FSP -329

MID-COURSE EXECUTION ACCURACY

SGT 5407.6 SGR 364.6 SG3 97.9
 RRT .3083 RRF .3003 RTF .9594
 SGB 5419.8 R23 .0035 R13 .9594
 SG1 5408.7 SG2 346.7 THA 1.20

ORBIT DETERMINATION ACCURACY

ST 2195.5 SR 297.0 SS 565.8
 CRT -.6139 CRS .6136 CST -.9998
 LSA 2274.6 MSA 233.7 SSA 11.5
 EL1 2203.1 EL2 233.7 ALF 175.20

LAUNCH DATE MAR 9 1969 FLIGHT TIME 206.00 ARRIVAL DATE OCT 1 1969

DISTANCE 593.964

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.479 GAL 15.51 AZL 92.99 HCA 310.30 SMA 116.65 ECC .37536 INC 2.79915 V1 29.996
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.492 GAP 21.60 AZP 91.94 TAL 150.08 TAP 100.39 RCA 72.86 APO 160.43 V2 35.255
 RC 213.276 GL -8.68 GP -10.99 ZAL 41.49 ZAP 167.48 ETS 243.70 ZAE 132.58 ETE 189.94 ZAC 153.28 ETC 12.62 CLP 173.95

PLANETOCENTRIC CONIC
 C3 72.041 VHL 8.488 DLA 9.99 RAL 127.68 RAD 6569.4 VEL 13.907 PTH 2.54 VHP 13.816 DPA 12.62 RAP 113.37 ECC 2.1856
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 29 20 2846.23 -28.30 85.20 16.24 91.12 8 16 46 2246.2 -27.84 76.57
 90.00 21 59 34 4860.17 19.61 210.53 8.14 69.15 23 20 34 4260.2 16.60 203.15
 100.00 8 55 36 2567.96 -29.84 64.69 16.20 91.82 9 38 24 1968.0 -29.27 55.93
 100.00 23 15 58 4613.66 21.05 191.81 7.54 68.27 24 32 52 4013.7 17.91 184.42
 110.00 10 15 4 2319.31 -34.00 45.57 15.96 93.76 10 53 43 1719.3 -33.11 36.45
 110.00 0 16 56 4435.08 24.88 176.49 -5.78 65.77 1 30 51 3835.1 21.40 169.08

MID-COURSE EXECUTION ACCURACY
 SGT 5380.1 SGR 347.5 SG3 95.8
 RRT .2731 RRF .2685 RTF .9644
 SGB 5391.3 R23 .0043 R13 .9644
 SG1 5381.0 SG2 334.2 THA 1.01

ORBIT DETERMINATION ACCURACY
 ST 2253.1 SR 288.1 SS 588.8
 CRT -.6307 CRS .6281 CST -.9998
 LSA 2335.8 MSA 222.9 SSA 10.9
 EL1 2260.4 EL2 222.9 ALF 175.34

DIFFERENTIAL CORRECTIONS
 TDE-2.6007 TRA 6.8616 TC3-1.1398 BAU 1.0979
 RDE .4174 RRA .2934 RC3 -.0181 FAU .00545
 FDE -.5679 FRA 1.5097 FC3 -.0655 BSP 17858
 BDE 2.6340 BRA 6.8678 BC3 1.1400 FSP -323

LAUNCH DATE MAR 9 1969 FLIGHT TIME 208.00 ARRIVAL DATE OCT 3 1969

DISTANCE 597.264

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.442 GAL 17.10 AZL 93.34 HCA 313.54 SMA 116.45 ECC .39476 INC 3.3389 V1 29.996
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.468 GAP 22.85 AZP 92.30 TAL 148.95 TAP 102.49 RCA 70.48 APO 162.42 V2 35.258
 RC 214.754 GL -8.89 GP -10.85 ZAL 39.97 ZAP 167.06 ETS 239.29 ZAE 132.36 ETE 189.73 ZAC 151.11 ETC 12.50 CLP 172.92

PLANETOCENTRIC CONIC
 C3 84.079 VHL 9.169 DLA 9.40 RAL 129.18 RAD 6569.6 VEL 14.333 PTH 2.61 VHP 14.569 DPA 12.49 RAP 115.60 ECC 2.3837
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 40 4 2862.53 -28.31 86.39 20.19 90.52 8 27 46 2262.5 -27.94 77.75
 90.00 22 0 48 4915.10 20.90 214.04 12.19 70.45 23 22 43 4315.1 18.04 206.53
 100.00 9 6 1 2585.32 -29.87 65.98 20.17 91.14 9 49 6 1985.3 -29.40 57.21
 100.00 23 17 32 4667.54 22.36 195.27 11.62 69.63 24 35 19 4067.5 19.39 187.74
 110.00 10 24 45 2338.95 -34.08 47.10 19.99 92.85 11 3 44 1738.9 -33.31 37.94
 110.00 0 19 13 4486.67 26.28 179.85 9.93 67.31 1 34 0 3886.7 22.97 172.25

MID-COURSE EXECUTION ACCURACY
 SGT 5348.7 SGR 330.0 SG3 93.9
 RRT .2317 RRF .2307 RTF .9693
 SGB 5358.9 R23 .0054 R13 .9693
 SG1 5349.3 SG2 321.0 THA .82

ORBIT DETERMINATION ACCURACY
 ST 2298.0 SR 279.5 SS 613.1
 CRT -.6476 CRS .6428 CST -.9998
 LSA 2385.3 MSA 212.5 SSA 10.3
 EL1 2305.2 EL2 212.3 ALF 175.46

DIFFERENTIAL CORRECTIONS
 TDE-2.8843 TRA 7.4987 TC3 -.9132 BAU 1.0266
 RDE .4386 RRA .2882 RC3 -.0118 FAU .00403
 FDE -.6083 FRA 1.6027 FC3 -.0415 BSP 17735
 BDE 2.9174 BRA 7.5043 BC3 .9133 FSP -314

LAUNCH DATE MAR 9 1969 FLIGHT TIME 210.00 ARRIVAL DATE OCT 5 1969

DISTANCE 600.054

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.406 GAL 18.87 AZL 93.73 HCA 316.78 SMA 116.27 ECC .41658 INC 3.7259 V1 29.996
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.445 GAP 24.26 AZP 92.72 TAL 147.95 TAP 104.73 RCA 67.83 APO 164.70 V2 35.259
 RC 216.204 GL -9.05 GP -10.73 ZAL 38.63 ZAP 166.53 ETS 234.93 ZAE 132.06 ETE 189.51 ZAC 149.02 ETC 12.41 CLP 171.82

PLANETOCENTRIC CONIC
 C3 98.694 VHL 9.934 DLA 8.88 RAL 130.50 RAD 6569.9 VEL 14.834 PTH 2.68 VHP 15.422 DPA 12.33 RAP 117.76 ECC 2.6242
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 49 27 2881.08 -28.32 87.75 23.98 89.84 8 37 28 2281.1 -28.04 79.10
 90.00 22 1 57 4967.18 22.05 217.43 16.09 71.77 23 24 44 4367.2 19.35 209.80
 100.00 9 15 7 2604.77 -29.89 67.43 23.98 90.38 9 58 32 2004.8 -29.52 58.64
 100.00 23 18 58 4718.72 23.54 198.62 15.54 71.02 24 37 37 4118.7 20.73 190.95
 110.00 10 33 13 2360.36 -34.14 48.77 23.88 91.87 11 12 33 1760.4 -33.50 39.59
 110.00 0 21 17 4535.89 27.53 183.13 13.93 68.89 1 36 53 3935.9 24.41 175.35

MID-COURSE EXECUTION ACCURACY
 SGT 5312.6 SGR 312.1 SG3 92.0
 RRT .1812 RRF .1835 RTF .9739
 SGB 5321.8 R23 .0066 R13 .9739
 SG1 5312.9 SG2 306.9 THA .61

ORBIT DETERMINATION ACCURACY
 ST 2333.8 SR 271.0 SS 640.1
 CRT -.6664 CRS .6599 CST -.9998
 LSA 2426.7 MSA 201.7 SSA 9.6
 EL1 2340.8 EL2 201.5 ALF 175.54

DIFFERENTIAL CORRECTIONS
 TDE-3.1926 TRA 8.1846 TC3 -.7132 BAU .9410
 RDE .4623 RRA .2768 RC3 -.0069 FAU .00252
 FDE -.6528 FRA 1.7042 FC3 -.0221 BSP 17719
 BDE 3.2259 BRA 8.1893 BC3 .7132 FSP -309

LAUNCH DATE MAR 9 1969 FLIGHT TIME 212.00 ARRIVAL DATE OCT 7 1969

DISTANCE 602.201

HELIOCENTRIC CONIC
 RL 148.54 LAL .00 LOL 168.25 VL 25.372 GAL 20.83 AZL 94.16 HCA 320.01 SMA 116.09 ECC .44121 INC 4.1624 V1 29.996
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.422 GAP 25.86 AZP 93.19 TAL 147.13 TAP 107.14 RCA 64.87 APO 167.32 V2 35.260
 RC 217.629 GL -9.17 GP -10.61 ZAL 37.49 ZAP 165.88 ETS 230.66 ZAE 131.68 ETE 189.27 ZAC 147.00 ETC 12.34 CLP 170.63

PLANETOCENTRIC CONIC
 C3 116.570 VHL 10.797 DLA 8.44 RAL 131.64 RAD 6570.2 VEL 15.424 PTH 2.76 VHP 16.391 DPA 12.14 RAP 119.82 ECC 2.9185
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 57 26 2901.61 -28.30 89.25 27.57 89.09 8 45 48 2301.6 -28.13 80.59
 90.00 22 3 1 5016.01 23.05 220.66 19.79 73.08 23 26 37 4416.0 20.52 212.90
 100.00 9 22 52 2626.06 -29.89 69.01 27.59 89.54 10 6 38 2026.1 -29.63 60.21
 100.00 23 20 16 4766.80 24.57 201.82 19.27 72.41 24 39 43 4166.8 21.93 194.02
 110.00 10 40 27 2383.29 -34.17 50.56 27.58 90.81 11 20 10 1783.3 -33.68 41.35
 110.00 0 23 7 4582.34 28.63 186.30 17.75 70.47 1 39 29 3982.3 25.70 178.35

MID-COURSE EXECUTION ACCURACY
 SGT 5272.1 SGR 294.4 SG3 90.2
 RRT .1201 RRF .1256 RTF .9782
 SGB 5280.3 R23 .0078 R13 .9782
 SG1 5272.2 SG2 292.2 THA .39

ORBIT DETERMINATION ACCURACY
 ST 2358.7 SR 263.0 SS 669.9
 CRT -.6864 CRS .6784 CST -.9998
 LSA 2458.6 MSA 191.0 SSA 9.1
 EL1 2365.6 EL2 190.7 ALF 175.60

DIFFERENTIAL CORRECTIONS
 TDE-3.5230 TRA 8.9326 TC3 -.5350 BAU .8338
 RDE .4893 RRA .2582 RC3 -.0033 FAU .00078
 FDE -.7006 FRA 1.8172 FC3 -.0058 BSP 17672
 BDE 3.5568 BRA 8.9363 BC3 .5350 FSP -303

LAUNCH DATE MAR 9 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 603.527

RL 148.54 LAL .00 LOL 168.25 VL 25.341 GAL 23.03 AZL 94.66 MCA 323.25 SMA 115.93 ECC .46910 INC 4.6620 V1 29.996
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.401 GAP 27.69 AZP 93.74 TAL 146.52 TAP 109.77 RCA 61.55 APO 170.32 V2 35.261
 RC 219.026 GL -9.26 GP -10.50 ZAL 36.54 ZAP 165.08 ETS 226.48 ZAE 131.18 ETE 189.01 ZAC 145.09 ETC 12.30 CLP 169.33

PLANETOCENTRIC CONIC

C3 138.622 VHL 11.774 DLA 8.09 RAL 132.58 RAD 6570.5 VEL 16.123 PTH 2.84 VHP 17.501 DPA 11.95 RAP 121.78 ECC 3.2814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 3 58 2923.90 -28.27 90.88 30.93 88.27 8 52 42 2323.9 -28.21 82.22
 90.00 22 3 59 5061.15 23.91 223.69 23.24 74.36 23 28 20 4461.1 -21.54 215.82
 100.00 9 29 13 2648.95 -29.86 70.71 30.98 88.65 10 13 22 2048.9 -29.73 61.91
 100.00 23 21 25 4811.33 25.45 204.84 22.76 73.76 24 41 36 4211.3 22.98 196.91
 110.00 10 46 22 2407.49 -34.18 52.45 31.05 89.69 11 26 30 1807.5 -33.85 43.22
 110.00 0 24 41 4625.55 29.57 189.31 21.33 72.02 1 41 46 4025.6 26.83 181.19

DIFFERENTIAL CORRECTIONS

TDE -3.8784 TRA 9.7502 TC3 -.3776 BAU .6997
 ROE .5201 RRA .2304 RC3 -.0009 FAU-.00125
 FOE -.7527 FRA 1.9437 FC3 .0078 BSP 17608
 BOE 3.9131 BRA 9.7529 BC3 .3776 FSP -298

MID-COURSE EXECUTION ACCURACY

SGT 5226.9 SGR 277.3 SG3 88.4
 RRT .0461 RRF .0544 RTF .9822
 SGB 5234.2 R23 .0090 R13 .9822
 SG1 5226.9 SG2 277.0 THA .14

ORBIT DETERMINATION ACCURACY

ST 2372.8 SR 255.4 SS 703.3
 CRT -.7078 CRS .6986 CST -.9998
 LSA 2481.4 MSA 180.3 SSA 8.5
 EL1 2379.7 EL2 179.9 ALF 175.62

LAUNCH DATE MAR 9 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 11 1969

HELIOCENTRIC CONIC

DISTANCE 603.802

RL 148.54 LAL .00 LOL 168.25 VL 25.313 GAL 25.52 AZL 95.24 MCA 326.48 SMA 115.79 ECC .50077 INC 5.2434 V1 29.996
 RP 107.47 LAP 2.89 LOP 134.84 VP 36.381 GAP 29.79 AZP 94.37 TAL 146.17 TAP 112.64 RCA 57.81 APO 173.77 V2 35.260
 RC 220.396 GL -9.32 GP -10.38 ZAL 35.81 ZAP 164.11 ETS 222.42 ZAE 130.56 ETE 188.72 ZAC 143.30 ETC 12.28 CLP 167.91

PLANETOCENTRIC CONIC

C3 166.075 VHL 12.887 DLA 7.82 RAL 133.30 RAD 6570.8 VEL 16.953 PTH 2.92 VHP 18.778 DPA 11.74 RAP 123.60 ECC 3.7332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 8 56 2947.80 -28.21 92.63 34.02 87.40 8 58 4 2347.8 -28.27 83.96
 90.00 22 4 48 5102.05 24.63 226.47 26.40 75.58 23 29 50 4502.0 22.41 218.50
 100.00 9 34 2 2673.29 -29.81 72.52 34.10 87.70 10 18 36 2073.3 -29.81 63.71
 100.00 23 22 22 4851.79 26.19 207.61 25.95 75.05 24 43 14 4251.8 23.88 199.58
 110.00 10 50 53 2432.81 -34.15 54.43 34.27 88.52 11 31 26 1832.8 -33.98 45.19
 110.00 0 25 57 4665.04 30.37 192.11 24.61 73.50 1 43 42 4065.0 27.81 183.85

DIFFERENTIAL CORRECTIONS

TDE -4.2572 TRA10.6504 TC3 -.2383 BAU .5290
 ROE .5558 RRA .1913 RC3 .0004 FAU-.00375
 FOE -.8091 FRA 2.0871 FC3 .0195 BSP 17424
 BOE 4.2933 BRA10.6521 BC3 .2383 FSP -291

MID-COURSE EXECUTION ACCURACY

SGT 5177.3 SGR 261.6 SG3 86.8
 RRT -.0428 RRF -.0321 RTF .9857
 SGB 5183.9 R23 -.0102 R13 -.9857
 SG1 5177.3 SG2 261.4 THA 179.88

ORBIT DETERMINATION ACCURACY

ST 2374.6 SR 248.5 SS 740.6
 CRT -.7302 CRS .7200 CST -.9998
 LSA 2494.0 MSA 169.9 SSA 7.9
 EL1 2381.6 EL2 169.3 ALF 175.61

LAUNCH DATE MAR 9 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 13 1969

HELIOCENTRIC CONIC

DISTANCE 602.715

RL 148.54 LAL .00 LOL 168.25 VL 25.288 GAL 28.36 AZL 95.93 MCA 329.71 SMA 115.66 ECC .53680 INC 5.9329 V1 29.996
 RP 107.48 LAP 2.99 LOP 138.09 VP 36.362 GAP 32.24 AZP 95.13 TAL 146.13 TAP 115.84 RCA 53.58 APO 177.75 V2 35.259
 RC 221.738 GL -9.35 GP -10.26 ZAL 35.32 ZAP 162.96 ETS 218.48 ZAE 129.77 ETE 188.40 ZAC 141.67 ETC 12.29 CLP 166.32

PLANETOCENTRIC CONIC

C3 200.592 VHL 14.163 DLA 7.66 RAL 133.79 RAD 6571.1 VEL 17.942 PTH 3.00 VHP 20.258 DPA 11.56 RAP 125.26 ECC 4.3012
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 12 10 2973.27 -28.11 94.49 36.79 86.47 9 1 43 2373.3 -28.31 85.83
 90.00 22 5 27 5138.09 25.22 228.94 29.19 76.68 23 31 5 4538.1 23.14 220.89
 100.00 9 37 11 2699.03 -29.73 74.43 36.90 86.70 10 22 10 2099.0 -29.87 65.62
 100.00 23 23 7 4887.56 26.79 210.10 28.77 76.22 24 44 34 4287.6 24.63 201.97
 110.00 10 53 50 2459.15 -34.09 56.48 37.17 87.31 11 34 30 1859.2 -34.09 47.24
 110.00 0 26 53 4700.20 31.02 194.64 27.52 74.87 1 45 13 4100.2 28.64 186.25

DIFFERENTIAL CORRECTIONS

TDE -4.6706 TRA11.6318 TC3 -.1182 BAU .3170
 ROE .5976 RRA .1380 RC3 .0006 FAU-.00678
 FOE -.8727 FRA 2.2480 FC3 .0293 BSP 17339
 BOE 4.7086 BRA11.6327 BC3 .1182 FSP -286

MID-COURSE EXECUTION ACCURACY

SGT 5121.0 SGR 248.2 SG3 85.2
 RRT -.1493 RRF -.1368 RTF .9888
 SGB 5127.0 R23 -.0112 R13 -.9888
 SG1 5121.1 SG2 245.4 THA 179.58

ORBIT DETERMINATION ACCURACY

ST 2366.2 SR 242.3 SS 783.6
 CRT -.7546 CRS .7438 CST -.9998
 LSA 2499.3 MSA 159.4 SSA 7.3
 EL1 2373.3 EL2 158.5 ALF 175.56

LAUNCH DATE MAR 9 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 15 1969

HELIOCENTRIC CONIC

DISTANCE 599.858

RL 148.54 LAL .00 LOL 168.25 VL 25.268 GAL 31.61 AZL 96.77 MCA 332.93 SMA 115.56 ECC .57780 INC 6.7696 V1 29.996
 RP 107.48 LAP 3.08 LOP 141.34 VP 36.346 GAP 35.10 AZP 96.03 TAL 146.49 TAP 119.42 RCA 48.79 APO 182.33 V2 35.257
 RC 223.054 GL -9.34 GP -10.13 ZAL 35.10 ZAP 161.58 ETS 214.67 ZAE 128.79 ETE 188.04 ZAC 140.24 ETC 12.33 CLP 164.53

PLANETOCENTRIC CONIC

C3 244.431 VHL 15.634 DLA 7.60 RAL 134.01 RAD 6571.4 VEL 19.124 PTH 3.09 VHP 21.982 DPA 11.40 RAP 126.73 ECC 5.0227
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 13 26 3000.38 -27.99 96.46 39.20 85.49 9 3 27 2400.4 -28.32 87.81
 90.00 22 5 55 5168.55 25.68 231.05 31.54 77.65 23 32 3 4568.6 23.73 222.93
 100.00 9 38 26 2726.23 -29.60 76.44 39.34 85.65 10 23 52 2126.2 -29.89 67.65
 100.00 23 23 36 4917.93 27.27 212.23 31.15 77.25 24 45 34 4317.9 25.24 204.02
 110.00 10 55 2 2486.54 -33.98 58.61 39.72 86.05 11 36 28 1886.5 -34.16 49.37
 110.00 0 27 26 4730.39 31.54 196.84 29.99 76.08 1 46 16 4130.4 29.30 188.35

DIFFERENTIAL CORRECTIONS

TDE -5.1128 TRA12.7062 TC3 -.0145 BAU .0474
 ROE .6470 RRA .0672 RC3 -.0002 FAU-.01064
 FOE -.9432 FRA 2.4307 FC3 .0377 BSP 17219
 BOE 5.1536 BRA12.7064 BC3 .0145 FSP -282

MID-COURSE EXECUTION ACCURACY

SGT 5057.9 SGR 238.4 SG3 83.8
 RRT -.2717 RRF -.2582 RTF .9914
 SGB 5063.5 R23 -.0121 R13 -.9914
 SG1 5058.3 SG2 229.4 THA 179.26

ORBIT DETERMINATION ACCURACY

ST 2344.6 SR 237.2 SS 832.6
 CRT -.7799 CRS .7688 CST -.9998
 LSA 2494.9 MSA 149.1 SSA 6.8
 EL1 2351.9 EL2 148.0 ALF 175.47

LAUNCH DATE MAR 10 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 19 1969

DISTANCE 205.859

MELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 29.280 GAL -14.15 AZL 90.40 HCA 93.84 SMA 142.84 ECC .24754 INC .3965 V1 29.988
 RP 108.70 LAP -.40 LOP 263.09 VP 38.894 GAP -3.81 AZP 89.97 TAL 246.79 TAP 340.63 RCA 107.48 APO 178.19 V2 34.862
 RC 70.456 GL -1.45 GP 25.79 ZAL 168.09 ZAP 58.53 ETS 345.27 ZAE 153.92 ETE 64.73 ZAC 111.73 ETC 153.37 CLP -54.56

PLANETOCENTRIC CONIC
 C3 60.571 VHL 7.783 DLA -.90 RAL 1.56 RAD 6569.1 VEL 13.488 PTH 2.47 VHP 5.286 DPA 32.08 RAP 15.91 ECC 1.9968
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 25 3 2461.76 -24.70 57.77 241.83 104.31 1 6 5 1861.8 -22.49 49.79
 90.00 12 9 44 5161.67 25.58 230.58 242.57 77.43 13 35 45 4561.7 23.60 222.47
 100.00 1 45 59 2200.73 -26.06 38.17 241.43 105.18 2 22 40 1600.7 -23.73 30.16
 100.00 13 31 30 4897.94 26.96 210.83 242.21 76.57 14 53 7 4297.9 24.84 202.67
 110.00 2 53 16 1990.11 -29.75 20.96 240.20 107.66 3 26 26 1390.1 -27.05 12.81
 110.00 14 40 42 4681.31 30.68 193.27 241.10 74.13 15 58 43 4081.3 28.20 184.95

DIFFERENTIAL CORRECTIONS
 TDE -.2483 TRA -.5760 TC3 .0552 BAU .2045
 RDE -.3172 RRA .4303 RC3 .2465 FAU .08636
 FDE -1.0297 FRA -1.0655 FC3 -1.2343 BSP 1225
 BOE .4028 BRA .7190 BC3 .2526 FSP -543

MID-COURSE EXECUTION ACCURACY
 SGT 469.8 SGR 549.6 SG3 190.9
 RRT -.2274 RRF -.6659 RTF .2949
 SGB 723.0 R23 .1079 R13 -.6734
 SG1 576.9 SG2 435.8 THA 117.64

ORBIT DETERMINATION ACCURACY
 ST 222.7 SR 252.4 SS 363.5
 CRT .5447 CRS -.7666 CST -.9498
 LSA 464.9 MSA 169.7 SSA 21.2
 EL1 296.7 EL2 158.8 ALF 51.47

LAUNCH DATE MAR 10 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 21 1969

DISTANCE 212.417

MELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 29.285 GAL -13.99 AZL 90.59 HCA 97.01 SMA 142.89 ECC .24490 INC .5860 V1 29.988
 RP 108.73 LAP -.58 LOP 266.26 VP 38.889 GAP -3.14 AZP 89.93 TAL 246.92 TAP 343.93 RCA 107.89 APO 177.88 V2 34.853
 RC 72.672 GL -2.16 GP 27.03 ZAL 168.04 ZAP 63.16 ETS 347.45 ZAE 153.61 ETE 72.28 ZAC 109.71 ETC 154.00 CLP -59.55

PLANETOCENTRIC CONIC
 C3 59.398 VHL 7.707 DLA -1.58 RAL 1.79 RAD 6569.1 VEL 13.445 PTH 2.46 VHP 5.091 DPA 32.43 RAP 13.53 ECC 1.9775
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 31 0 2435.97 -24.25 56.01 241.46 105.08 1 11 36 1836.0 -21.95 48.10
 90.00 12 5 37 5177.95 25.82 231.71 242.74 77.95 13 31 55 4577.9 23.90 223.57
 100.00 1 51 37 2175.95 -25.61 36.47 241.04 105.97 2 27 53 1575.9 -23.17 28.52
 100.00 13 27 42 4913.20 27.20 211.90 242.40 77.09 14 49 35 4313.2 25.15 203.70
 110.00 2 58 10 1967.60 -29.28 19.38 239.76 108.49 3 30 58 1367.6 -26.47 11.32
 110.00 14 37 38 4694.31 30.92 194.21 241.33 74.64 15 55 52 4094.3 28.50 185.84

DIFFERENTIAL CORRECTIONS
 TDE -.2712 TRA -.6212 TC3 .0192 BAU .2179
 RDE -.2896 RRA .4418 RC3 .2737 FAU .09193
 FDE -1.1373 FRA -1.1220 FC3 -1.3398 BSP 1396
 BOE .3968 BRA .7623 BC3 .2744 FSP -597

MID-COURSE EXECUTION ACCURACY
 SGT 504.9 SGR 576.5 SG3 205.8
 RRT -.3293 RRF -.7015 RTF .4113
 SGB 766.4 R23 .1239 R13 -.7164
 SG1 630.1 SG2 436.2 THA 124.01

ORBIT DETERMINATION ACCURACY
 ST 244.7 SR 237.1 SS 388.8
 CRT .5130 CRS -.7470 CST -.9484
 LSA 487.0 MSA 172.1 SSA 21.2
 EL1 296.4 EL2 168.0 ALF 43.25

LAUNCH DATE MAR 10 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 23 1969

DISTANCE 218.930

MELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 29.281 GAL -13.84 AZL 90.78 HCA 100.18 SMA 142.85 ECC .24242 INC .7780 V1 29.988
 RP 108.76 LAP -.77 LOP 269.43 VP 38.878 GAP -2.51 AZP 89.86 TAL 246.91 TAP 347.09 RCA 108.22 APO 177.48 V2 34.844
 RC 74.919 GL -2.90 GP 28.24 ZAL 167.87 ZAP 67.85 ETS 349.71 ZAE 152.97 ETE 79.97 ZAC 107.63 ETC 154.73 CLP -64.66

PLANETOCENTRIC CONIC
 C3 58.283 VHL 7.634 DLA -2.25 RAL 2.10 RAD 6569.1 VEL 13.403 PTH 2.45 VHP 4.932 DPA 32.70 RAP 11.06 ECC 1.9592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 37 13 2410.55 -23.79 54.29 241.18 105.83 1 17 23 1810.6 -21.39 46.44
 90.00 12 1 52 5194.10 26.04 232.84 243.00 78.47 13 28 26 4594.1 24.19 224.66
 100.00 1 57 30 2151.54 -25.14 34.81 240.75 106.72 2 33 22 1551.5 -22.61 26.93
 100.00 13 24 16 4928.35 27.42 212.97 242.67 77.61 14 46 24 4328.3 25.44 204.73
 110.00 3 3 21 1945.44 -28.79 17.84 239.42 109.28 3 35 46 1345.4 -25.89 9.86
 110.00 14 34 55 4707.22 31.15 195.15 241.64 75.15 15 53 22 4107.2 28.79 186.73

DIFFERENTIAL CORRECTIONS
 TDE -.3007 TRA -.6726 TC3 -.0236 BAU .2350
 RDE -.2612 RRA .4500 RC3 .3007 FAU .09671
 FDE -1.2379 FRA -1.1621 FC3 -1.4365 BSP 1596
 BOE .3983 BRA .8093 BC3 .3016 FSP -641

MID-COURSE EXECUTION ACCURACY
 SGT 554.3 SGR 602.9 SG3 219.2
 RRT -.4279 RRF -.7323 RTF .5186
 SGB 819.1 R23 .1344 R13 -.7548
 SG1 693.7 SG2 435.5 THA 129.46

ORBIT DETERMINATION ACCURACY
 ST 271.8 SR 221.1 SS 412.3
 CRT .4800 CRS -.7229 CST -.9483
 LSA 512.1 MSA 173.4 SSA 21.3
 EL1 304.7 EL2 173.1 ALF 33.29

LAUNCH DATE MAR 10 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 25 1969

DISTANCE 225.398

MELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 29.269 GAL -13.69 AZL 90.97 HCA 103.34 SMA 142.74 ECC .24006 INC .9737 V1 29.988
 RP 108.78 LAP -.95 LOP 272.59 VP 38.861 GAP -1.91 AZP 89.78 TAL 246.77 TAP 350.11 RCA 108.47 APO 177.00 V2 34.835
 RC 77.194 GL -3.66 GP 29.40 ZAL 167.59 ZAP 72.54 ETS 352.04 ZAE 151.99 ETE 87.53 ZAC 105.52 ETC 155.56 CLP -69.85

PLANETOCENTRIC CONIC
 C3 57.214 VHL 7.564 DLA -2.92 RAL 2.48 RAD 6569.0 VEL 13.363 PTH 2.44 VHP 4.808 DPA 32.89 RAP 8.55 ECC 1.9416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 43 43 2385.29 -23.31 52.59 241.01 106.55 1 23 28 1785.3 -20.82 44.81
 90.00 11 58 26 5210.29 26.26 235.98 243.34 79.00 13 25 17 4610.3 24.48 225.76
 100.00 2 3 41 2127.29 -24.66 33.17 240.56 107.46 2 39 9 1527.3 -22.04 25.35
 100.00 13 21 8 4943.53 27.64 214.04 243.03 78.13 14 43 32 4343.5 25.72 205.77
 110.00 3 8 49 1923.43 -28.29 16.32 239.19 110.05 3 40 52 1323.4 -25.29 8.43
 110.00 14 32 31 4720.16 31.37 196.09 242.03 75.67 15 51 11 4120.2 29.08 187.63

DIFFERENTIAL CORRECTIONS
 TDE -.3356 TRA -.7282 TC3 -.0719 BAU .2565
 RDE -.2312 RRA .4555 RC3 .3275 FAU .10078
 FDE -1.3339 FRA -1.1885 FC3 -1.5249 BSP 1841
 BOE .4075 BRA .8590 BC3 .3353 FSP -686

MID-COURSE EXECUTION ACCURACY
 SGT 617.7 SGR 628.9 SG3 231.1
 RRT -.5154 RRF -.7594 RTF .6087
 SGB 881.5 R23 .1413 R13 -.7880
 SG1 767.4 SG2 433.8 THA 134.00

ORBIT DETERMINATION ACCURACY
 ST 303.5 SR 204.0 SS 435.5
 CRT .4408 CRS -.6914 CST -.9490
 LSA 541.2 MSA 173.3 SSA 21.3
 EL1 322.5 EL2 172.3 ALF 23.62

LAUNCH DATE MAR 10 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 231.822

RL 148.58 LAL .00 LOL 169.25 VL 29.248 GAL -13.55 AZL 91.17 MCA 106.51 SMA 142.56 ECC .23781 INC 1.1745 V1 29.988
 RP 108.81 LAP -1.13 LOP 275.76 VP 38.839 GAP -1.34 AZP 89.67 TAL 246.50 TAP 353.01 RCA 108.65 APO 176.46 V2 34.827
 RC 79.493 GL -4.46 GP 30.51 ZAL 167.19 ZAP 77.18 ETS 354.45 ZAE 150.69 ETE 94.72 ZAC 103.44 ETC 156.44 CLP -75.08

PLANETOCENTRIC CONIC

C3 56.182 VHL 7.495 DLA -3.59 RAL 2.94 RAD 6569.0 VEL 13.324 PTH 2.44 VHP 4.717 DPA 33.01 RAP 6.06 ECC 1.9246
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 50 32 2359.95 -22.81 50.91 240.93 107.25 1 29 52 1759.9 -20.23 43.18
 90.00 11 55 15 5226.70 26.47 235.13 243.77 79.55 13 22 22 4626.7 24.75 226.88
 100.00 2 10 12 2102.96 -24.15 31.54 240.46 108.17 2 45 15 1503.0 -21.44 23.79
 100.00 13 18 17 4958.92 27.85 215.14 243.47 78.67 14 40 56 4358.9 26.00 206.82
 110.00 3 14 36 1901.37 -27.76 14.82 239.04 110.80 3 46 17 1301.4 -24.68 7.01
 110.00 14 30 22 4733.28 31.59 197.05 242.51 76.20 15 49 15 4133.3 29.37 188.55

DIFFERENTIAL CORRECTIONS

TDE -.3768 TRA -.7877 TC3 -.1258 BAU .2816
 RDE -.2004 RRA .4570 RC3 .3531 FAU .10383
 FDE -1.4200 FRA -1.1971 FC3 -1.6000 BSP 2119
 BDE .4268 BRA .9106 BC3 .3749 FSP -726

MID-COURSE EXECUTION ACCURACY

SGT 694.6 SGR 652.8 SG3 240.9
 RRT -.5886 RRF -.7826 RTF .6808
 SGB 953.2 R23 .1470 R13 -.8155
 SG1 850.1 SG2 431.2 THA 138.01

ORBIT DETERMINATION ACCURACY

ST 340.2 SR 186.4 SS 457.3
 CRT .3947 CRS -.6515 CST -.9505
 LSA 574.1 MSA 172.1 SSA 21.2
 EL1 350.5 EL2 166.3 ALF 15.86

LAUNCH DATE MAR 10 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 238.203

RL 148.58 LAL .00 LOL 169.25 VL 29.221 GAL -13.40 AZL 91.38 MCA 109.67 SMA 142.31 ECC .23564 INC 1.3819 V1 29.988
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.811 GAP -1.80 AZP 89.54 TAL 246.12 TAP 355.79 RCA 108.78 APO 175.84 V2 34.820
 RC 81.813 GL -5.30 GP 31.56 ZAL 166.69 ZAP 81.73 ETS 356.94 ZAE 149.09 ETE 101.37 ZAC 101.41 ETC 157.35 CLP -80.28

PLANETOCENTRIC CONIC

C3 55.180 VHL 7.428 DLA -4.27 RAL 3.47 RAD 6569.0 VEL 13.287 PTH 2.43 VHP 4.657 DPA 33.09 RAP 3.63 ECC 1.9081
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 57 46 2334.27 -22.28 49.21 240.94 107.94 1 36 40 1734.3 -19.62 41.55
 90.00 11 52 16 5243.52 26.67 236.32 244.28 80.11 13 19 40 4643.5 25.03 228.04
 100.00 2 17 6 2078.33 -23.62 29.91 240.45 108.88 2 51 44 1478.3 -20.82 22.22
 100.00 13 15 37 4974.69 28.05 216.27 243.99 79.23 14 38 32 4374.7 26.28 207.91
 110.00 3 20 45 1879.05 -27.21 13.32 238.99 111.53 3 52 4 1279.1 -24.04 5.59
 110.00 14 28 27 4746.73 31.80 198.04 243.07 76.75 15 47 34 4146.7 29.65 189.49

DIFFERENTIAL CORRECTIONS

TDE -.4246 TRA -.8500 TC3 -.1849 BAU .3094
 RDE -.1702 RRA .4536 RC3 .3765 FAU .10561
 FDE -1.4904 FRA -1.1840 FC3 -1.6569 BSP 2416
 BDE .4574 BRA .9635 BC3 .4194 FSP -749

MID-COURSE EXECUTION ACCURACY

SGT 784.2 SGR 673.2 SG3 247.7
 RRT -.6466 RRF -.8017 RTF .7360
 SGB 1033.5 R23 .1526 R13 -.8372
 SG1 940.7 SG2 428.1 THA 141.67

ORBIT DETERMINATION ACCURACY

ST 382.4 SR 169.1 SS 476.5
 CRT .3117 CRS -.6030 CST -.9524
 LSA 610.4 MSA 169.7 SSA 21.2
 EL1 387.6 EL2 156.8 ALF 10.29

LAUNCH DATE MAR 10 1969

FLIGHT TIME 82.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 244.543

RL 148.58 LAL .00 LOL 169.25 VL 29.187 GAL -13.25 AZL 91.60 MCA 112.83 SMA 142.01 ECC .23353 INC 1.5976 V1 29.988
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.780 GAP -1.29 AZP 89.38 TAL 245.63 TAP 358.46 RCA 108.85 APO 175.17 V2 34.813
 RC 84.153 GL -6.18 GP 32.55 ZAL 166.07 ZAP 86.13 ETS 359.49 ZAE 147.26 ETE 107.38 ZAC 99.49 ETC 158.25 CLP -85.41

PLANETOCENTRIC CONIC

C3 54.207 VHL 7.363 DLA -4.97 RAL 4.07 RAD 6569.0 VEL 13.250 PTH 2.42 VHP 4.625 DPA 33.15 RAP 1.33 ECC 1.8921
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 5 26 2308.00 -21.72 47.49 241.03 108.63 1 43 54 1708.0 -18.98 39.89
 90.00 11 49 25 5261.02 26.87 237.56 244.88 80.70 13 17 6 4661.0 25.31 229.24
 100.00 2 24 26 2053.14 -23.05 28.25 240.53 109.57 2 58 39 1453.1 -20.17 20.63
 100.00 13 13 5 4991.11 28.26 217.45 244.61 79.82 14 36 17 4391.1 26.56 209.05
 110.00 3 27 19 1856.27 -26.63 11.80 239.02 112.26 3 58 16 1256.3 -23.38 4.15
 110.00 14 26 42 4760.74 32.01 199.08 243.73 77.32 15 46 3 4160.7 29.94 190.48

DIFFERENTIAL CORRECTIONS

TDE -.4783 TRA -.9134 TC3 -.2477 BAU .3398
 RDE -.1393 RRA .4462 RC3 .3981 FAU .10634
 FDE -1.5503 FRA -1.1561 FC3 -1.6984 BSP 2745
 BDE .4982 BRA 1.0166 BC3 .4689 FSP -771

MID-COURSE EXECUTION ACCURACY

SGT 883.6 SGR 690.6 SG3 252.3
 RRT -.6919 RRF -.8183 RTF .7774
 SGB 1121.4 R23 .1585 R13 -.8545
 SG1 1038.0 SG2 424.4 THA 144.89

ORBIT DETERMINATION ACCURACY

ST 429.5 SR 151.6 SS 495.0
 CRT .2729 CRS -.5384 CST -.9545
 LSA 651.5 MSA 166.3 SSA 21.1
 EL1 431.8 EL2 145.1 ALF 6.21

LAUNCH DATE MAR 10 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 250.843

RL 148.58 LAL .00 LOL 169.25 VL 29.148 GAL -13.09 AZL 91.82 MCA 115.99 SMA 141.66 ECC .23148 INC 1.8234 V1 29.988
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.745 GAP .19 AZP 89.20 TAL 245.04 TAP 1.03 RCA 108.87 APO 174.45 V2 34.807
 RC 86.508 GL -7.11 GP 33.48 ZAL 165.35 ZAP 90.34 ETS 2.10 ZAE 145.27 ETE 112.71 ZAC 97.70 ETC 159.12 CLP -90.41

PLANETOCENTRIC CONIC

C3 53.263 VHL 7.298 DLA -5.69 RAL 4.75 RAD 6568.9 VEL 13.214 PTH 2.41 VHP 4.620 DPA 33.21 RAP 359.17 ECC 1.8766
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 38 2280.84 -21.12 45.72 241.21 109.31 1 51 39 1680.8 -18.29 38.19
 90.00 11 46 37 5279.47 27.06 238.88 245.57 81.33 13 14 36 4679.5 25.59 230.52
 100.00 2 32 17 2027.13 -22.45 26.55 240.69 110.27 3 6 4 1427.1 -19.49 19.01
 100.00 13 10 39 5008.42 28.46 218.69 245.32 80.45 14 34 7 4408.4 26.85 210.26
 110.00 3 34 22 1832.78 -26.02 10.25 239.14 112.99 4 4 55 1232.8 -22.68 2.69
 110.00 14 25 4 4775.54 32.23 200.18 244.48 77.94 15 44 39 4175.5 30.23 191.53

DIFFERENTIAL CORRECTIONS

TDE -.5384 TRA -.9768 TC3 -.3138 BAU .3716
 RDE -.1091 RRA .4339 RC3 .4169 FAU .10584
 FDE -1.5942 FRA -1.1096 FC3 -1.7203 BSP 3084
 BDE .5493 BRA 1.0689 BC3 .5218 FSP -779

MID-COURSE EXECUTION ACCURACY

SGT 991.1 SGR 703.5 SG3 253.9
 RRT -.7262 RRF -.8322 RTF .8080
 SGB 1215.4 R23 .1655 R13 -.8677
 SG1 1140.4 SG2 420.3 THA 147.85

ORBIT DETERMINATION ACCURACY

ST 482.0 SR 135.0 SS 511.4
 CRT .1875 CRS -.4559 CST -.9568
 LSA 696.6 MSA 162.2 SSA 21.0
 EL1 482.7 EL2 132.4 ALF 3.25

LAUNCH DATE MAR 10 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 257.105

RL 148.58 LAL .00 LOL 169.25 VL 29.103 GAL -12.94 AZL 92.06 MCA 119.15 SMA 141.27 ECC .2294H INC 2.0617 V1 29.98H
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.706 GAP .65 AZP 89.00 TAL 244.36 TAP 3.51 RCA 108.85 APO 173.69 V2 34.802
 RC 88.877 GL -8.11 GP 34.39 ZAL 164.53 ZAP 94.34 ETS 4.77 ZAE 143.16 ETE 117.38 ZAC 96.07 ETC 159.94 CLP -95.26

PLANETOCENTRIC CONIC

C3 52.350 VHL 7.235 DLA -6.45 RAL 5.50 RAD 6568.9 VEL 13.180 PTH 2.41 VHP 4.640 DPA 33.31 RAP 357.19 ECC 1.8615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 22 28 2252.51 -20.47 43.90 241.47 110.00 2 0 0 1652.5 -17.56 36.43
 90.00 11 43 48 5299.24 27.26 240.29 246.36 82.02 13 12 7 4699.2 25.87 231.90
 100.00 2 40 44 2000.01 -21.80 24.80 240.94 110.97 3 14 4 1400.0 -18.75 17.33
 100.00 13 8 13 5026.97 28.66 220.03 246.13 81.13 14 32 0 4427.0 27.14 211.56
 110.00 3 41 57 1808.33 -25.36 8.66 239.35 113.73 4 12 5 1208.3 -21.93 1.18
 110.00 14 23 29 4791.41 32.45 201.36 245.34 78.61 15 43 21 4191.4 30.54 192.67

DIFFERENTIAL CORRECTIONS

TDE -.6045 TRA-1.0389 TC3 -.3820 BAU .4045
 RDE -.0782 RRA .4178 RC3 .4337 FAU .10441
 FDE-1.6283 FRA-1.0518 FC3-1.7267 BSP 3449
 BDE .6095 BRA 1.1198 BC3 .5780 FSP -786

MID-COURSE EXECUTION ACCURACY

SGT 1104.6 SGR 713.2 SG3 253.5
 RRT -.7527 RRF -.8447 RTF .8307
 SGB 1314.8 R23 .1733 R13 -.8781
 SG1 1247.4 SG2 415.8 THA 150.48

ORBIT DETERMINATION ACCURACY

ST 539.5 SR 119.0 SS 527.6
 CRT .0704 CRS -.3405 CST -.9591
 LSA 747.2 MSA 157.4 SSA 20.8
 EL1 539.6 EL2 118.7 ALF .94

LAUNCH DATE MAR 10 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 263.330

RL 148.58 LAL .00 LOL 169.25 VL 29.054 GAL -12.77 AZL 92.32 MCA 122.30 SMA 140.84 ECC .22752 INC 2.3150 V1 29.98H
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.665 GAP 1.09 AZP 88.76 TAL 243.60 TAP 5.90 RCA 108.80 APO 172.88 V2 34.797
 RC 91.256 GL -9.18 GP 35.28 ZAL 163.59 ZAP 98.08 ETS 7.48 ZAE 140.98 ETE 121.42 ZAC 94.61 ETC 160.68 CLP -99.91

PLANETOCENTRIC CONIC

C3 51.473 VHL 7.174 DLA -7.26 RAL 6.34 RAD 6568.9 VEL 13.147 PTH 2.40 VHP 4.683 DPA 33.48 RAP 355.39 ECC 1.8471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 32 1 2222.63 -19.76 41.99 241.84 110.70 2 9 3 1622.6 -16.77 34.59
 90.00 11 40 54 5320.73 27.45 241.84 247.27 82.77 13 9 35 4720.7 26.17 233.41
 100.00 2 49 52 1971.45 -21.09 22.97 241.29 111.69 3 22 44 1371.4 -17.96 15.58
 100.00 13 5 43 5047.15 28.87 221.50 247.05 81.87 14 29 50 4447.1 27.44 212.99
 110.00 3 50 10 1782.67 -24.65 7.00 239.65 114.47 4 19 53 1182.7 -21.13 359.62
 110.00 14 21 55 4808.69 32.67 202.66 246.32 79.35 15 42 4 4208.7 30.86 193.91

DIFFERENTIAL CORRECTIONS

TDE -.6770 TRA-1.0987 TC3 -.4517 BAU .4378
 RDE -.0475 RRA .3976 RC3 .4480 FAU .10203
 FDE-1.6501 FRA -.9822 FC3-1.7160 BSP 3826
 BDE .6787 BRA 1.1684 BC3 .6362 FSP -784

MID-COURSE EXECUTION ACCURACY

SGT 1222.6 SGR 719.1 SG3 250.8
 RRT -.7726 RRF -.8557 RTF .8476
 SGB 1418.4 R23 .1826 R13 -.8861
 SG1 1357.5 SG2 411.1 THA 152.87

ORBIT DETERMINATION ACCURACY

ST 602.6 SR 105.0 SS 542.6
 CRT -.0848 CRS -.1827 CST -.9614
 LSA 803.1 MSA 152.1 SSA 20.6
 EL1 602.7 EL2 104.6 ALF 179.13

LAUNCH DATE MAR 10 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 269.521

RL 148.58 LAL .00 LOL 169.25 VL 29.001 GAL -12.61 AZL 92.59 MCA 125.46 SMA 140.38 ECC .22560 INC 2.5865 V1 29.98H
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.621 GAP 1.51 AZP 88.50 TAL 242.76 TAP 8.21 RCA 108.71 APO 172.05 V2 34.793
 RC 93.644 GL -10.34 GP 36.18 ZAL 162.53 ZAP 101.54 ETS 10.24 ZAE 138.76 ETE 124.90 ZAC 93.32 ETC 161.32 CLP -104.35

PLANETOCENTRIC CONIC

C3 50.642 VHL 7.116 DLA -8.13 RAL 7.25 RAD 6568.9 VEL 13.115 PTH 2.39 VHP 4.749 DPA 33.75 RAP 353.77 ECC 1.8334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 42 26 2190.82 -18.98 39.98 242.31 111.41 2 18 57 1590.8 -15.91 32.66
 90.00 11 37 48 5344.44 27.64 243.55 248.30 83.60 13 6 52 4744.4 26.47 235.07
 100.00 2 59 50 1941.08 -20.32 21.05 241.74 112.41 3 32 12 1341.1 -17.10 13.73
 100.00 13 3 4 5069.41 29.07 223.12 248.10 82.70 14 27 34 4469.4 27.75 214.57
 110.00 3 59 7 1755.46 -23.87 5.27 240.05 115.23 4 28 23 1155.5 -20.27 357.98
 110.00 14 20 17 4827.79 32.91 204.10 247.43 80.17 15 40 45 4227.8 31.20 195.30

DIFFERENTIAL CORRECTIONS

TDE -.7559 TRA-1.1545 TC3 -.5217 BAU .4705
 RDE -.0174 RRA .3726 RC3 .4590 FAU .09866
 FDE-1.6578 FRA -.8998 FC3-1.6866 BSP 4191
 BDE .7561 BRA 1.2131 BC3 .6949 FSP -768

MID-COURSE EXECUTION ACCURACY

SGT 1342.8 SGR 720.3 SG3 245.6
 RRT -.7868 RRF -.8652 RTF .8598
 SGB 1523.8 R23 .1935 R13 -.8917
 SG1 1468.6 SG2 406.5 THA 155.08

ORBIT DETERMINATION ACCURACY

ST 671.0 SR 94.0 SS 555.8
 CRT -.2776 CRS .0210 CST -.9635
 LSA 863.7 MSA 146.7 SSA 20.2
 EL1 671.5 EL2 90.3 ALF 177.73

LAUNCH DATE MAR 10 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 275.679

RL 148.58 LAL .00 LOL 169.25 VL 28.944 GAL -12.44 AZL 92.88 MCA 128.61 SMA 139.89 ECC .22372 INC 2.8801 V1 29.98H
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.576 GAP 1.90 AZP 88.20 TAL 241.84 TAP 10.45 RCA 108.60 APO 171.19 V2 34.789
 RC 96.038 GL -11.60 GP 37.12 ZAL 161.35 ZAP 104.71 ETS 13.06 ZAE 136.54 ETE 127.87 ZAC 92.20 ETC 161.88 CLP -108.57

PLANETOCENTRIC CONIC

C3 49.869 VHL 7.062 DLA -9.07 RAL 8.26 RAD 6568.8 VEL 13.086 PTH 2.39 VHP 4.835 DPA 34.14 RAP 352.31 ECC 1.8207
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 53 2156.60 -18.12 37.84 242.90 112.14 2 29 50 1556.6 -14.96 30.59
 90.00 11 34 23 5371.00 27.83 245.47 249.47 84.55 13 3 54 4771.0 26.78 236.96
 100.00 3 10 48 1908.47 -19.46 19.01 242.31 113.15 3 42 36 1308.5 -16.16 11.77
 100.00 13 0 10 5094.36 29.27 224.95 249.30 83.65 14 25 4 4494.4 28.08 216.35
 110.00 4 8 57 1726.37 -23.01 3.45 240.56 116.00 4 37 43 1126.4 -19.33 356.25
 110.00 14 18 30 4849.22 33.14 205.73 248.70 81.11 15 39 19 4249.2 31.56 196.86

DIFFERENTIAL CORRECTIONS

TDE -.8424 TRA-1.2059 TC3 -.5915 BAU .5031
 RDE .0141 RRA .3448 RC3 .4685 FAU .09477
 FDE-1.6608 FRA -.8142 FC3-1.6453 BSP 4578
 BDE .8425 BRA 1.2542 BC3 .7545 FSP -753

MID-COURSE EXECUTION ACCURACY

SGT 1465.2 SGR 719.8 SG3 239.2
 RRT -.7976 RRF -.8744 RTF .8691
 SGB 1632.4 R23 .2056 R13 -.8963
 SG1 1582.1 SG2 402.1 THA 157.03

ORBIT DETERMINATION ACCURACY

ST 745.7 SR 88.0 SS 569.8
 CRT -.5114 CRS .2818 CST -.9657
 LSA 931.8 MSA 141.3 SSA 19.8
 EL1 747.1 EL2 75.5 ALF 176.51

LAUNCH DATE MAR 10 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 281.806

RL 148.58 LAL .00 LOL 169.25 VL 28.884 GAL -12.26 AZL 93.20 MCA 131.76 SMA 139.39 ECC .22189 INC 3.2007 V1 29.988
 RP 108.94 LAP -2.39 LOP 301.05 VP 38.529 GAP 2.28 AZP 87.87 TAL 240.85 TAP 12.62 RCA 108.46 APO 170.32 V2 34.787
 RC 98.436 GL -12.99 GP 38.13 ZAL 160.03 ZAP 107.57 ETS 15.96 ZAE 134.32 ETE 130.38 ZAC 91.23 ETC 162.33 CLP-112.57

PLANETOCENTRIC CONIC

C3 49.172 VHL 7.012 DLA -10.11 RAL 9.37 RAD 6568.8 VEL 13.059 PTH 2.38 VHP 4.943 DPA 34.69 RAP 351.00 ECC 1.8092
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 6 36 2119.40 -17.15 35.54 243.63 112.88 2 41 55 1519.4 -13.90 28.37
 90.00 11 30 32 5401.17 28.01 247.66 250.82 85.63 13 0 33 4801.2 27.11 239.11
 100.00 3 22 56 1873.11 -18.50 16.82 243.02 113.91 3 54 9 1273.1 -15.11 9.67
 100.00 12 56 53 5122.69 29.47 227.03 250.68 84.73 14 22 15 4522.7 28.42 218.39
 110.00 4 19 49 1694.98 -22.06 1.51 241.22 116.80 4 48 4 1095.0 -18.29 354.41
 110.00 14 16 29 4873.59 33.38 207.59 250.16 82.19 15 37 43 4273.6 31.94 198.66

DIFFERENTIAL CORRECTIONS

TDE -.9367 TRA-1.2512 TC3 -.6598 BAU .5344
 RDE .0456 RRA .3125 RC3 .4748 FAU .09018
 FDE-1.6538 FRA -.7206 FC3-1.5878 BSP 4948
 BDE .9378 BRA 1.2897 BC3 .8129 FSP -726

MID-COURSE EXECUTION ACCURACY

SGT 1587.6 SGR 715.6 SG3 230.9
 RRT -.8045 RRF -.8828 RTF .8758
 SGB 1741.4 R23 .2196 R13 -.8993
 SG1 1695.3 SG2 398.0 THA 158.85

ORBIT DETERMINATION ACCURACY

ST 826.8 SR 88.5 SS 582.8
 CRT -.7279 CRS .5429 CST -.9677
 LSA 1006.1 MSA 136.2 SSA 19.1
 EL1 829.3 EL2 60.5 ALF 175.52

LAUNCH DATE MAR 10 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 287.904

RL 148.58 LAL .00 LOL 169.25 VL 28.822 GAL -12.07 AZL 93.55 MCA 134.91 SMA 138.86 ECC .22010 INC 3.5545 V1 29.988
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.480 GAP 2.64 AZP 87.49 TAL 239.80 TAP 14.72 RCA 108.30 APO 169.42 V2 34.785
 RC 100.837 GL -14.52 GP 39.25 ZAL 158.55 ZAP 110.11 ETS 18.94 ZAE 132.09 ETE 132.49 ZAC 90.41 ETC 162.68 CLP-116.35

PLANETOCENTRIC CONIC

C3 48.576 VHL 6.970 DLA -11.25 RAL 10.59 RAD 6568.8 VEL 13.036 PTH 2.38 VHP 5.073 DPA 35.41 RAP 349.80 ECC 1.7994
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 20 50 2078.53 -16.05 33.05 244.53 113.64 2 55 29 1478.5 -12.72 25.96
 90.00 11 26 3 5435.94 28.16 250.19 252.38 86.90 12 56 39 4835.9 27.43 241.60
 100.00 3 36 31 1834.36 -17.41 14.46 243.89 114.69 4 7 5 1234.4 -13.94 7.39
 100.00 12 53 3 5155.34 29.65 229.44 252.27 85.98 14 18 58 4555.3 28.77 220.75
 110.00 4 31 56 1660.80 -21.00 359.43 242.03 117.62 4 59 37 1060.8 -17.13 352.43
 110.00 14 14 7 4901.68 33.62 209.75 251.84 83.44 15 35 49 4301.7 32.35 200.75

DIFFERENTIAL CORRECTIONS

TDE-1.0415 TRA-1.2906 TC3 -.7264 BAU .5652
 RDE .0792 RRA .2776 RC3 .4795 FAU .08529
 FDE-1.6451 FRA -.6281 FC3-1.5201 BSP 5345
 BDE 1.0445 BRA 1.3201 BC3 .8704 FSP -702

MID-COURSE EXECUTION ACCURACY

SGT 1711.3 SGR 710.7 SG3 221.9
 RRT -.8092 RRF -.8912 RTF .8812
 SGB 1853.0 R23 .2343 R13 -.9020
 SG1 1810.5 SG2 394.7 THA 160.46

ORBIT DETERMINATION ACCURACY

ST 916.1 SR 97.5 SS 597.5
 CRT -.8840 CRS .7546 CST -.9698
 LSA 1090.0 MSA 131.7 SSA 18.3
 EL1 920.2 EL2 45.4 ALF 174.61

LAUNCH DATE MAR 10 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 293.973

RL 148.58 LAL .00 LOL 169.25 VL 28.757 GAL -11.88 AZL 93.95 MCA 138.06 SMA 138.32 ECC .21836 INC 3.9492 V1 29.988
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.430 GAP 2.98 AZP 87.06 TAL 238.70 TAP 16.76 RCA 108.12 APO 168.52 V2 34.784
 RC 103.240 GL -16.23 GP 40.51 ZAL 156.90 ZAP 112.30 ETS 22.05 ZAE 129.85 ETE 134.26 ZAC 89.70 ETC 162.95 CLP-119.94

PLANETOCENTRIC CONIC

C3 48.115 VHL 6.936 DLA -12.53 RAL 11.95 RAD 6568.8 VEL 13.018 PTH 2.37 VHP 5.228 DPA 36.33 RAP 348.66 ECC 1.7918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 36 59 2033.10 -14.79 30.31 245.65 114.42 3 10 52 1433.1 -11.37 23.30
 90.00 11 20 42 5476.60 28.27 253.16 254.17 88.38 12 51 58 4876.6 27.75 244.53
 100.00 3 51 53 1791.45 -16.17 11.87 244.98 115.49 4 21 44 1191.5 -12.61 4.90
 100.00 12 48 29 5193.49 29.79 232.27 254.11 87.46 14 15 2 4593.5 29.12 223.53
 110.00 4 45 35 1623.23 -19.79 357.17 243.04 118.46 5 12 39 1023.2 -15.84 350.29
 110.00 14 11 15 4934.48 33.85 212.28 253.79 84.93 15 33 30 4334.5 32.78 203.21

DIFFERENTIAL CORRECTIONS

TDE-1.1581 TRA-1.3222 TC3 -.7898 BAU .5950
 RDE .1143 RRA .2391 RC3 .4815 FAU .08003
 FDE-1.6326 FRA -.5344 FC3-1.4401 BSP 5743
 BDE 1.1637 BRA 1.3437 BC3 .9250 FSP -674

MID-COURSE EXECUTION ACCURACY

SGT 1835.0 SGR 704.3 SG3 211.9
 RRT -.8113 RRF -.8993 RTF .8855
 SGB 1965.5 R23 .2501 R13 -.9041
 SG1 1926.0 SG2 392.3 THA 161.93

ORBIT DETERMINATION ACCURACY

ST 1014.3 SR 114.0 SS 612.8
 CRT -.9629 CRS .8842 CST -.9720
 LSA 1183.5 MSA 128.1 SSA 17.2
 EL1 1020.2 EL2 30.6 ALF 173.82

LAUNCH DATE MAR 10 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 300.016

RL 148.58 LAL .00 LOL 169.25 VL 28.690 GAL -11.69 AZL 94.40 MCA 141.21 SMA 137.77 ECC .21667 INC 4.3955 V1 29.988
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.380 GAP 3.31 AZP 86.57 TAL 237.53 TAP 18.74 RCA 107.92 APO 167.62 V2 34.783
 RC 105.643 GL -18.14 GP 41.95 ZAL 155.03 ZAP 114.12 ETS 25.29 ZAE 127.58 ETE 135.72 ZAC 89.07 ETC 163.13 CLP-123.34

PLANETOCENTRIC CONIC

C3 47.837 VHL 6.916 DLA -13.97 RAL 13.45 RAD 6568.8 VEL 13.008 PTH 2.37 VHP 5.411 DPA 37.46 RAP 347.54 ECC 1.7873
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 55 31 1981.95 -13.33 27.26 247.04 115.22 3 28 33 1381.9 -9.82 20.34
 90.00 11 14 9 5524.86 28.32 256.69 256.26 90.15 12 46 14 4924.9 28.04 248.03
 100.00 4 9 28 1743.36 -14.74 9.02 246.34 116.30 4 38 31 1143.4 -11.09 2.13
 100.00 12 42 53 5238.69 29.88 235.63 256.25 89.23 14 10 12 4638.7 29.46 226.85
 110.00 5 1 8 1581.54 -18.42 354.72 244.31 119.32 5 27 29 981.5 -14.38 347.94
 110.00 14 7 43 4973.27 34.04 215.30 256.08 86.70 15 30 36 4373.3 33.21 206.16

DIFFERENTIAL CORRECTIONS

TDE-1.2889 TRA-1.3437 TC3 -.8474 BAU .6226
 RDE .1505 RRA .1953 RC3 .4795 FAU .07432
 FDE-1.6146 FRA -.4375 FC3-1.3450 BSP 6112
 BDE 1.2977 BRA 1.3578 BC3 .9736 FSP -637

MID-COURSE EXECUTION ACCURACY

SGT 1957.0 SGR 695.1 SG3 200.6
 RRT -.8099 RRF -.9065 RTF .8886
 SGB 2076.8 R23 .2670 R13 -.9054
 SG1 2039.6 SG2 391.3 THA 163.32

ORBIT DETERMINATION ACCURACY

ST 1122.4 SR 135.8 SS 628.0
 CRT -.9909 CRS .9509 CST -.9741
 LSA 1287.1 MSA 125.6 SSA 15.9
 EL1 1130.4 EL2 18.1 ALF 173.16

LAUNCH DATE MAR 10 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 28.621 GAL -11.48 AZL 94.91 MCA 144.36 SMA 137.21 ECC .21503 INC 4.9072 V1 29.988
 RP 108.95 LAP -2.86 LOP 313.70 VP 38.329 GAP 3.62 AZP 86.01 TAL 236.32 TAP 20.68 RCA 107.70 APO 166.71 V2 34.783
 RC 108.045 GL -20.30 GP 43.61 ZAL 152.91 ZAP 115.57 ETS 28.70 ZAE 125.24 ETE 136.94 ZAC 88.49 ETC 163.26 CLP-126.59

PLANETOCENTRIC CONIC
 C3 47.814 VHL 6.915 DLA -15.61 RAL 15.14 RAD 6568.8 VEL 13.007 PTH 2.37 VHP 5.628 DPA 38.84 RAP 346.35 ECC 1.7869
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 17 10 1923.47 -11.61 23.83 248.79 116.01 3 49 14 1323.5 -8.02 16.99
 90.00 11 5 57 5583.10 28.23 260.94 258.71 92.28 12 39 0 4983.1 28.25 252.28
 100.00 4 29 55 1688.74 -13.07 5.83 248.04 117.13 4 58 4 1088.7 -9.33 359.03
 100.00 12 35 53 5293.07 29.86 239.67 258.77 91.36 14 4 6 4693.1 29.73 230.87
 110.00 5 19 3 1534.82 -16.84 352.02 245.91 120.19 5 44 38 934.8 -12.71 345.35
 110.00 14 3 14 5019.76 34.17 218.92 258.78 88.84 15 26 54 4419.8 33.63 209.72

DIFFERENTIAL CORRECTIONS
 TDE-1.4398 TRA-1.3551 TC3 -.8986 BAU .6494
 RDE .1895 RRA .1475 RC3 .4741 FAU .06849
 FDE-1.5974 FRA -.3447 FC3-1.2401 BSP 6508
 BDE 1.4522 BRA 1.3631 BC3 1.0160 FSP -602

MID-COURSE EXECUTION ACCURACY
 SGT 2080.1 SGR 686.1 SG3 188.9
 RRT -.8059 RRF -.9132 RTF .8918
 SGB 2190.3 R23 .2836 R13 -.9071
 SG1 2154.9 SG2 392.1 THA 164.59

ORBIT DETERMINATION ACCURACY
 ST 1243.8 SR 162.8 SS 645.5
 CRT -.9947 CRS .9822 CST -.9763
 LSA 1405.2 MSA 124.5 SSA 14.4
 EL1 1254.3 EL2 16.5 ALF 172.58

LAUNCH DATE MAR 10 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 28.551 GAL -11.27 AZL 95.50 MCA 147.50 SMA 136.64 ECC .21344 INC 5.5039 V1 29.988
 RP 108.94 LAP -2.95 LOP 316.87 VP 38.277 GAP 3.91 AZP 85.35 TAL 235.06 TAP 22.56 RCA 107.48 APO 165.81 V2 34.784
 RC 110.446 GL -22.77 GP 45.54 ZAL 150.50 ZAP 116.59 ETS 32.30 ZAE 122.80 ETE 137.98 ZAC 87.90 ETC 163.35 CLP-129.73

PLANETOCENTRIC CONIC
 C3 48.152 VHL 6.939 DLA -17.50 RAL 17.04 RAD 6568.8 VEL 13.020 PTH 2.38 VHP 5.888 DPA 40.48 RAP 345.02 ECC 1.7925
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 42 58 1855.32 -9.54 19.89 251.03 116.79 4 13 54 1255.3 -5.87 13.13
 90.00 10 55 22 5654.77 27.93 266.16 261.57 94.88 12 29 36 5054.8 28.31 257.52
 100.00 4 54 8 1625.67 -11.08 2.20 250.22 117.94 5 21 14 1025.7 -7.26 355.49
 100.00 12 26 52 5359.66 29.65 244.61 261.73 93.95 13 56 12 4759.7 29.89 235.81
 110.00 5 40 3 1481.85 -15.01 349.01 247.94 121.08 6 4 45 881.8 -10.78 342.46
 110.00 13 57 27 5076.24 34.16 223.33 261.98 91.45 15 22 4 4476.2 33.98 214.09

DIFFERENTIAL CORRECTIONS
 TDE-1.6165 TRA-1.3535 TC3 -.9395 BAU .6743
 RDE .2307 RRA .0937 RC3 .4633 FAU .06241
 FDE-1.5792 FRA -.2539 FC3-1.1220 BSP 6910
 BDE 1.6328 BRA 1.3567 BC3 1.0475 FSP -565

MID-COURSE EXECUTION ACCURACY
 SGT 2203.3 SGR 675.5 SG3 176.5
 RRT -.7980 RRF -.9185 RTF .8950
 SGB 2304.5 R23 .2994 R13 -.9090
 SG1 2270.4 SG2 395.0 THA 165.81

ORBIT DETERMINATION ACCURACY
 ST 1380.8 SR 193.0 SS 664.7
 CRT -.9890 CRS .9950 CST -.9786
 LSA 1539.4 MSA 124.8 SSA 12.7
 EL1 1393.9 EL2 28.3 ALF 172.13

LAUNCH DATE MAR 10 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 28.480 GAL -11.05 AZL 96.21 MCA 150.64 SMA 136.07 ECC .21191 INC 6.2132 V1 29.988
 RP 108.94 LAP -3.04 LOP 320.03 VP 38.226 GAP 4.19 AZP 84.58 TAL 233.75 TAP 24.39 RCA 107.24 APO 164.91 V2 34.786
 RC 112.844 GL -25.60 GP 47.80 ZAL 147.72 ZAP 117.16 ETS 36.15 ZAE 120.20 ETE 138.88 ZAC 87.24 ETC 163.45 CLP-132.80

PLANETOCENTRIC CONIC
 C3 49.013 VHL 7.001 DLA -19.66 RAL 19.23 RAD 6568.8 VEL 13.053 PTH 2.38 VHP 6.207 DPA 42.39 RAP 343.43 ECC 1.8066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 35 1773.70 -7.01 15.23 253.96 117.51 4 44 9 1173.7 -3.27 8.55
 90.00 10 41 10 5745.25 27.23 272.69 264.92 98.08 12 16 55 5145.3 28.07 264.13
 100.00 5 23 32 1551.21 -8.68 357.98 253.06 118.72 5 49 23 951.2 -4.78 351.36
 100.00 12 14 55 5442.97 29.11 250.74 265.21 97.13 13 45 38 4843.0 29.79 242.00
 110.00 6 5 5 1420.98 -12.84 345.63 250.58 121.96 6 28 46 821.0 -8.52 339.19
 110.00 13 49 50 5145.96 33.90 228.76 265.79 94.66 15 15 36 4546.0 34.18 219.53

DIFFERENTIAL CORRECTIONS
 TDE-1.8263 TRA-1.3337 TC3 -.9648 BAU .6959
 RDE .2718 RRA .0309 RC3 .4439 FAU .05596
 FDE-1.5566 FRA -.1631 FC3 -.9885 BSP 7272
 BDE 1.8464 BRA 1.3340 BC3 1.0620 FSP -520

MID-COURSE EXECUTION ACCURACY
 SGT 2324.3 SGR 660.7 SG3 163.0
 RRT -.7835 RRF -.9206 RTF .8981
 SGB 2416.4 R23 .3142 R13 -.9109
 SG1 2383.0 SG2 400.4 THA 167.07

ORBIT DETERMINATION ACCURACY
 ST 1535.1 SR 223.4 SS 684.0
 CRT -.9800 CRS .9987 CST -.9810
 LSA 1690.6 MSA 126.7 SSA 10.8
 EL1 1550.7 EL2 44.0 ALF 171.88

LAUNCH DATE MAR 10 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 28.408 GAL -10.83 AZL 97.08 MCA 153.78 SMA 135.50 ECC .21043 INC 7.0757 V1 29.988
 RP 108.93 LAP -3.12 LOP 323.20 VP 38.174 GAP 4.46 AZP 83.65 TAL 232.40 TAP 26.17 RCA 106.99 APO 164.02 V2 34.789
 RC 115.239 GL -28.87 GP 50.45 ZAL 144.50 ZAP 117.21 ETS 40.29 ZAE 117.39 ETE 139.76 ZAC 86.46 ETC 163.63 CLP-135.90

PLANETOCENTRIC CONIC
 C3 50.662 VHL 7.118 DLA -22.17 RAL 21.77 RAD 6568.9 VEL 13.116 PTH 2.39 VHP 6.606 DPA 44.59 RAP 341.39 ECC 1.8338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 2 1671.37 -3.76 9.47 257.91 118.09 5 22 54 1071.4 .03 2.84
 90.00 10 20 59 5864.09 25.81 281.10 268.77 102.06 11 58 43 5264.1 27.22 272.71
 100.00 6 0 27 1460.26 -5.67 352.90 256.86 119.40 6 24 47 860.3 -1.71 346.35
 100.00 11 58 15 5550.44 27.95 258.52 269.25 101.06 13 30 46 4950.4 29.19 249.93
 110.00 6 35 41 1349.81 -10.24 341.75 254.07 122.79 6 58 11 749.8 -5.85 335.41
 110.00 13 39 31 5233.64 33.21 235.51 270.31 98.59 15 6 44 4633.6 34.04 226.37

DIFFERENTIAL CORRECTIONS
 TDE-2.0857 TRA-1.2932 TC3 -.9704 BAU .7149
 RDE .3127 RRA -.0413 RC3 .4152 FAU .04942
 FDE-1.5355 FRA -.0786 FC3 -.8445 BSP 7671
 BDE 2.1090 BRA 1.2939 BC3 1.0555 FSP -477

MID-COURSE EXECUTION ACCURACY
 SGT 2447.6 SGR 643.4 SG3 149.1
 RRT -.7612 RRF -.9180 RTF .9027
 SGB 2530.8 R23 .3254 R13 -.9142
 SG1 2497.5 SG2 408.9 THA 168.37

ORBIT DETERMINATION ACCURACY
 ST 1712.9 SR 252.6 SS 705.9
 CRT -.9701 CRS .9974 CST -.9835
 LSA 1865.3 MSA 129.8 SSA 9.0
 EL1 1730.4 EL2 60.7 ALF 171.85

LAUNCH DATE MAR 10 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 329.863

RL 148.58 LAL .00 LOL 169.25 VL 28.335 GAL -10.59 AZL 98.15 HCA 156.91 SMA 134.93 ECC .20901 INC 8.1542 VI 29.988
 RP 108.92 LAP -3.19 LOP 326.36 VP 38.123 GAP 4.72 AZP 82.49 TAL 231.00 TAP 27.91 RCA 106.73 APO 163.14 V2 34.792
 RC 117.630 GL -32.67 GP 53.55 ZAL 140.75 ZAP 116.70 ETS 44.82 ZAE 114.26 ETE 140.75 ZAC 85.45 ETC 164.00 CLP-139.14

PLANETOCENTRIC CONIC

C3 53.554 VHL 7.318 DLA -25.07 RAL 24.78 RAD 6568.9 VEL 13.226 PTH 2.42 VHP 7.121 DPA 47.06 RAP 338.69 ECC 1.8814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 24 1529.59 .81 1.56 263.53 118.31 6 16 54 929.6 4.59 354.91
 90.00 9 48 37 745.39 22.90 314.73 272.90 107.13 10 1 3 145.4 25.03 306.71
 100.00 6 49 40 1341.48 -1.66 346.36 262.16 119.85 7 12 2 741.5 2.32 339.84
 100.00 11 33 2 5696.77 25.61 268.76 273.79 105.96 13 7 59 5096.8 27.55 260.49
 110.00 7 14 17 1264.26 -7.05 337.17 258.82 123.53 7 35 21 664.3 -2.60 330.92
 110.00 13 24 55 5346.75 31.74 244.00 275.62 103.41 14 54 2 4746.7 33.26 235.10

DIFFERENTIAL CORRECTIONS

TDE-2.4129 TRA-1.2209 TC3 -.9463 BAU .7280
 RDE .3448 RRA -.1285 RC3 .3720 FAU .04258
 FDE-1.5110 FRA .0032 FC3 -.6884 BSP 8029
 BDE 2.4374 BRA 1.2277 BC3 1.0168 FSP -427

MID-COURSE EXECUTION ACCURACY

SGT 2569.2 SGR 617.8 SG3 134.3
 RRT -.7225 RRF -.9044 RTF .9086
 SGB 2642.5 R23 .3324 R13 -.9185
 SGT 2608.8 S22 420.6 THA 169.88

ORBIT DETERMINATION ACCURACY

ST 1916.0 SR 272.5 SS 728.2
 CRT -.9579 CRS .9920 CST -.9861
 LSA 2063.3 MSA 134.0 SSA 7.3
 EL1 1933.7 EL2 77.5 ALF 172.23

LAUNCH DATE MAR 10 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 335.759

RL 148.58 LAL .00 LOL 169.25 VL 28.261 GAL -10.35 AZL 99.55 HCA 160.03 SMA 134.37 ECC .20764 INC 9.5496 VI 29.988
 RP 108.91 LAP -3.25 LOP 329.53 VP 38.072 GAP 4.96 AZP 81.02 TAL 229.57 TAP 29.60 RCA 106.46 APO 162.27 V2 34.796
 RC 120.015 GL -37.08 GP 57.20 ZAL 136.36 ZAP 115.55 ETS 49.89 ZAE 110.72 ETE 142.11 ZAC 84.10 ETC 164.81 CLP-142.77

PLANETOCENTRIC CONIC

C3 58.516 VHL 7.650 DLA -28.40 RAL 28.42 RAD 6569.1 VEL 13.412 PTH 2.45 VHP 7.813 DPA 49.74 RAP 334.95 ECC 1.9630
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.70 7 45 9 1222.17 12.43 345.14 274.34 115.74 8 5 31 622.2 15.80 338.07
 92.30 8 23 57 1096.40 12.45 335.94 274.35 115.74 8 42 14 496.4 15.81 328.87
 100.00 8 6 47 1151.94 4.75 335.94 270.28 119.55 8 25 59 551.9 8.65 329.33
 100.00 10 45 0 641.86 20.36 306.16 278.03 112.37 10 55 42 41.9 23.22 298.53
 110.00 8 5 37 1155.59 -2.94 331.46 265.52 124.07 8 24 53 555.6 1.56 325.25
 110.00 13 2 39 5499.01 28.82 254.89 281.56 109.24 14 34 18 4899.0 31.16 246.47

DIFFERENTIAL CORRECTIONS

TDE-2.8443 TRA-1.1044 TC3 -.8845 BAU .7338
 RDE .3536 RRA -.2341 RC3 .3121 FAU .03567
 FDE-1.4879 FRA .0780 FC3 -.5278 BSP 8419
 BDE 2.8662 BRA 1.1290 BC3 .9380 FSP -379

MID-COURSE EXECUTION ACCURACY

SGT 2693.4 SGR 581.3 SG3 119.0
 RRT -.6534 RRF -.8665 RTF .9174
 SGB 2755.4 R23 .3314 R13 -.9253
 SGT 2720.7 S22 435.7 THA 171.76

ORBIT DETERMINATION ACCURACY

ST 2149.4 SR 271.9 SS 752.5
 CRT -.9376 CRS .9788 CST -.9888
 LSA 2289.3 MSA 138.8 SSA 5.8
 EL1 2164.5 EL2 93.9 ALF 173.22

LAUNCH DATE MAR 10 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 341.625

RL 148.58 LAL .00 LOL 169.25 VL 28.188 GAL -10.10 AZL 101.44 HCA 163.14 SMA 133.80 ECC .20632 INC 11.4369 VI 29.988
 RP 108.89 LAP -3.30 LOP 332.70 VP 38.021 GAP 5.19 AZP 79.04 TAL 228.09 TAP 31.23 RCA 106.20 APO 161.41 V2 34.800
 RC 122.394 GL -42.17 GP 61.46 ZAL 131.21 ZAP 113.69 ETS 55.90 ZAE 106.61 ETE 144.32 ZAC 82.25 ETC 166.51 CLP-147.25

PLANETOCENTRIC CONIC

C3 67.194 VHL 8.197 DLA -32.14 RAL 32.95 RAD 6569.3 VEL 13.731 PTH 2.51 VHP 8.786 DPA 52.50 RAP 329.65 ECC 2.1058
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.12 6 19 4 1588.34 12.81 313.93 281.71 119.73 6 45 33 988.3 16.67 5.72
 105.88 10 26 8 797.04 12.83 313.93 281.72 119.73 10 39 25 197.0 16.69 307.10
 74.12 6 19 4 1588.34 12.81 313.93 281.71 119.73 6 45 33 988.3 16.67 5.72
 105.88 10 26 8 797.04 12.83 313.93 281.72 119.73 10 39 25 197.0 16.69 307.10
 110.00 9 23 10 992.19 3.31 322.93 275.75 124.04 9 39 42 392.2 7.75 316.66
 110.00 12 21 13 5729.22 22.71 269.98 287.22 116.26 13 56 42 5129.2 26.05 262.41

DIFFERENTIAL CORRECTIONS

TDE-3.4342 TRA -.9150 TC3 -.7737 BAU .7257
 RDE .2934 RRA -.3645 RC3 .2324 FAU .02867
 FDE-1.4673 FRA .1473 FC3 -.3694 BSP 8814
 BDE 3.4467 BRA .9849 BC3 .8078 FSP -329

MID-COURSE EXECUTION ACCURACY

SGT 2818.0 SGR 527.0 SG3 103.4
 RRT -.5039 RRF -.7571 RTF .9301
 SGB 2866.9 R23 .3194 R13 -.9352
 SGT 2830.8 S22 453.1 THA 174.48

ORBIT DETERMINATION ACCURACY

ST 2411.4 SR 224.4 SS 779.1
 CRT -.8729 CRS .9286 CST -.9916
 LSA 2540.0 MSA 143.5 SSA 4.4
 EL1 2419.3 EL2 109.1 ALF 175.35

LAUNCH DATE MAR 10 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 347.452

RL 148.58 LAL .00 LOL 169.25 VL 28.114 GAL -9.83 AZL 104.14 HCA 166.22 SMA 133.24 ECC .20501 INC 14.1443 VI 29.988
 RP 108.88 LAP -3.34 LOP 335.87 VP 37.971 GAP 5.41 AZP 76.25 TAL 226.57 TAP 32.79 RCA 105.93 APO 160.56 V2 34.805
 RC 124.766 GL -47.90 GP 66.39 ZAL 125.20 ZAP 111.05 ETS 63.75 ZAE 101.72 ETE 148.43 ZAC 79.65 ETC 170.15 CLP-153.76

PLANETOCENTRIC CONIC

C3 83.231 VHL 9.123 DLA -36.13 RAL 38.72 RAD 6569.6 VEL 14.303 PTH 2.60 VHP 10.242 DPA 55.00 RAP 322.05 ECC 2.3698
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.55 5 56 15 1778.08 12.34 306.61 291.27 124.24 6 25 53 1178.1 16.74 20.55
 113.45 11 34 59 706.93 12.35 306.61 291.28 124.23 11 46 46 106.9 16.76 300.12
 66.55 5 56 15 1778.08 12.34 306.61 291.27 124.24 6 25 53 1178.1 16.74 20.55
 113.45 11 34 59 706.93 12.35 306.61 291.28 124.23 11 46 46 106.9 16.76 300.12
 66.55 5 56 15 1778.08 12.34 306.61 291.27 124.24 6 25 53 1178.1 16.74 20.55
 113.45 11 34 59 706.93 12.35 306.61 291.28 124.23 11 46 46 106.9 16.76 300.12

DIFFERENTIAL CORRECTIONS

TDE-4.2672 TRA -.5907 TC3 -.6043 BAU .6889
 RDE .0292 RRA -.5199 RC3 .1345 FAU .02158
 FDE-1.4564 FRA .2158 FC3 -.2245 BSP 9149
 BDE 4.2673 BRA .7869 BC3 .6191 FSP -277

MID-COURSE EXECUTION ACCURACY

SGT 2934.1 SGR 473.3 SG3 87.8
 RRT -.0965 RRF -.3850 RTF .9478
 SGB 2972.0 R23 .2924 R13 -.9485
 SGT 2934.5 S22 471.0 THA 179.08

ORBIT DETERMINATION ACCURACY

ST 2683.7 SR 122.9 SS 810.6
 CRT -.0990 CRS .2040 CST -.9943
 LSA 2802.3 MSA 147.3 SSA 3.3
 EL1 2683.7 EL2 122.3 ALF 179.74

LAUNCH DATE MAR 10 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 353.219

RL 148.58 LAL .00 LOL 169.25 VL 28.040 GAL -9.55 AZL 108.36 MCA 169.26 SMA 132.69 ECC .20366 INC18.3616 V1 29.988
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.922 GAP 5.60 AZP 71.94 TAL 225.00 TAP 34.26 RCA 105.66 APO 159.71 V2 34.811
 RC 127.128 GL -53.98 GP 71.79 ZAL 118.32 ZAP 107.62 ETS 76.00 ZAE 95.68 ETE 157.12 ZAC 75.90 ETC 178.43 CLP-165.59

PLANETOCENTRIC CONIC

C3 115.980 VHL 10.769 DLA -39.90 RAL 46.20 RAD 6570.2 VEL 15.405 PTH 2.75 VHP 12.604 DPA 56.49 RAP 311.33 ECC 2.9087
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.62 5 56 27 1935.49 10.43 38.53 303.47 128.74 6 28 42 1335.5 15.37 32.48
 119.38 12 34 31 692.05 10.45 303.95 303.48 128.73 12 46 3 92.0 15.38 297.90
 60.62 5 56 27 1935.49 10.43 38.53 303.47 128.74 6 28 42 1335.5 15.37 32.48
 119.38 12 34 31 692.05 10.45 303.95 303.48 128.73 12 46 3 92.0 15.38 297.90
 60.62 5 56 27 1935.49 10.43 38.53 303.47 128.74 6 28 42 1335.5 15.37 32.48
 119.38 12 34 31 692.05 10.45 303.95 303.48 128.73 12 46 3 92.0 15.38 297.90

DIFFERENTIAL CORRECTIONS

TDE-5.4217 TRA .0056 TC3 -.3797 BAU .5915
 ROE -.8945 RRA -.6401 RC3 .0368 FAU .01445
 FDE-1.4804 FRA .2929 FC3 -.1078 BSP 9463
 BOE 5.4950 BRA .6401 BC3 .3815 FSP -230

MID-COURSE EXECUTION ACCURACY

SGT 2998.2 SGR 655.6 SG3 73.1
 RRT .6645 RRF .4801 RTF .9710
 SGB 3069.0 R23 -.2441 R13 .9654
 SG1 3030.5 SG2 484.7 THA 8.49

ORBIT DETERMINATION ACCURACY

ST 2884.6 SR 494.2 SS 860.3
 CRT .9628 CRS -.9393 CST -.9971
 LSA 3046.8 MSA 148.9 SSA 2.5
 EL1 2923.7 EL2 131.7 ALF 9.39

LAUNCH DATE MAR 10 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 358.872

RL 148.58 LAL .00 LOL 169.25 VL 27.966 GAL -9.24 AZL 115.78 MCA 172.20 SMA 132.14 ECC .20214 INC25.7770 V1 29.988
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.873 GAP 5.76 AZP 64.43 TAL 223.35 TAP 35.54 RCA 105.43 APO 158.85 V2 34.818
 RC 129.481 GL -59.30 GP 76.22 ZAL 110.76 ZAP 103.43 ETS 99.84 ZAE 87.71 ETE 177.75 ZAC 70.12 ETC 198.77 CLP 167.13

PLANETOCENTRIC CONIC

C3 194.870 VHL 13.960 DLA -42.19 RAL 55.77 RAD 6571.1 VEL 17.782 PTH 2.99 VHP 16.897 DPA 55.43 RAP 297.33 ECC 4.2071
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.31 6 20 3 2069.33 6.72 46.87 318.28 131.75 6 54 33 1469.3 12.00 41.19
 122.69 13 27 16 744.97 6.74 305.32 318.30 131.75 13 39 40 145.0 12.02 299.65
 57.31 6 20 3 2069.33 6.72 46.87 318.28 131.75 6 54 33 1469.3 12.00 41.19
 122.69 13 27 16 744.97 6.74 305.32 318.30 131.75 13 39 40 145.0 12.02 299.65
 57.31 6 20 3 2069.33 6.72 46.87 318.28 131.75 6 54 33 1469.3 12.00 41.19
 122.69 13 27 16 744.97 6.74 305.32 318.30 131.75 13 39 40 145.0 12.02 299.65

DIFFERENTIAL CORRECTIONS

TDE-6.2150 TRA 1.1380 TC3 -.1316 BAU .3429
 ROE-4.0869 RRA -.2754 RC3 -.0023 FAU .00628
 FDE-1.5945 FRA .4196 FC3 -.0279 BSP 9684
 BOE 7.4383 BRA 1.1709 BC3 .1316 FSP -188

MID-COURSE EXECUTION ACCURACY

SGT 2653.2 SGR 1684.4 SG3 60.4
 RRT .9365 RRF .9029 RTF .9948
 SGB 3142.7 R23 -.1810 R13 .9816
 SG1 3101.8 SG2 505.3 THA 31.67

ORBIT DETERMINATION ACCURACY

ST 2557.9 SR 1678.0 SS 960.9
 CRT .9949 CRS -.9911 CST -.9995
 LSA 3202.9 MSA 153.3 SSA 1.8
 EL1 3055.9 EL2 142.1 ALF 33.21

LAUNCH DATE MAR 10 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 364.233

RL 148.58 LAL .00 LOL 169.25 VL 27.892 GAL -8.86 AZL 131.36 MCA 174.86 SMA 131.60 ECC .19998 INC41.3618 V1 29.988
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.825 GAP 5.83 AZP 48.75 TAL 221.52 TAP 36.39 RCA 105.28 APO 157.92 V2 34.825
 RC 131.823 GL -60.16 GP 72.84 ZAL 103.09 ZAP 98.80 ETS 140.90 ZAE 75.66 ETE 215.76 ZAC 59.91 ETC 237.06 CLP 121.24

PLANETOCENTRIC CONIC

C3 440.754 VHL 20.994 DLA -39.75 RAL 66.61 RAD 6572.2 VEL 23.708 PTH 3.30 VHP 25.997 DPA 48.53 RAP 282.13 ECC 8.2537
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.84 7 18 52 2125.80 2.07 47.71 334.10 129.71 7 54 18 1525.8 7.16 41.93
 119.16 13 54 56 888.03 2.09 313.60 334.11 129.71 14 9 44 288.0 7.18 307.83
 60.84 7 18 52 2125.80 2.07 47.71 334.10 129.71 7 54 18 1525.8 7.16 41.93
 119.16 13 54 56 888.03 2.09 313.60 334.11 129.71 14 9 44 288.0 7.18 307.83
 60.84 7 18 52 2125.80 2.07 47.71 334.10 129.71 7 54 18 1525.8 7.16 41.93
 119.16 13 54 56 888.03 2.09 313.60 334.11 129.71 14 9 44 288.0 7.18 307.83

DIFFERENTIAL CORRECTIONS

TDE-2.1707 TRA 2.1637 TC3 -.0085 BAU .6330
 RD-10.3576 RRA 2.3262 RC3 .1071 FAU-.00825
 FDE-1.9291 FRA .7374 FC3 .0162 BSP 9682
 BOE10.5826 BRA 3.1769 BC3 .1074 FSP -161

MID-COURSE EXECUTION ACCURACY

SGT 970.7 SGR 2979.0 SG3 51.1
 RRT .7929 RRF .9840 RTF .8886
 SGB 3133.2 R23 -.1288 R13 .9916
 SG1 3080.5 SG2 572.0 THA 74.98

ORBIT DETERMINATION ACCURACY

ST 635.7 SR 2837.6 SS 1195.6
 CRT .9601 CRS -.9982 CST -.9753
 LSA 3138.9 MSA 181.7 SSA .6
 EL1 2902.7 EL2 173.9 ALF 77.82

LAUNCH DATE MAR 10 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 368.576

RL 148.58 LAL .00 LOL 169.25 VL 27.818 GAL -8.27 AZL 168.56 MCA 176.54 SMA 131.07 ECC .19540 INC78.5626 V1 29.988
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.778 GAP 5.62 AZP 11.46 TAL 219.13 TAP 35.67 RCA 105.46 APO 156.68 V2 34.833
 RC 134.153 GL -47.27 GP 53.20 ZAL 96.97 ZAP 94.79 ETS 168.08 ZAE 54.05 ETE 237.87 ZAC 38.99 ETC 262.70 CLP 98.02

PLANETOCENTRIC CONIC

C31349.440 VHL 36.735 DLA -24.96 RAL 74.40 RAD 6573.1 VEL 38.350 PTH 3.55 VHP 45.996 DPA 29.03 RAP 270.66 ECC23.2084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 7 15 1972.22 -13.05 26.69 339.61 115.36 9 40 7 1372.2 -9.53 19.78
 90.00 13 8 41 1173.50 11.98 341.36 351.46 115.85 13 28 14 573.5 15.36 334.31
 100.00 10 5 55 1782.76 -15.92 11.36 338.19 115.64 10 35 38 1182.8 -12.34 4.39
 100.00 14 52 41 838.19 14.84 318.12 352.90 116.25 15 6 39 238.2 18.25 310.99
 110.00 10 31 5 1703.85 -22.33 2.05 334.87 116.58 10 59 29 1103.9 -18.58 354.93
 110.00 16 44 1 5777.90 21.21 272.96 356.29 117.45 18 20 19 5177.9 24.72 265.57

DIFFERENTIAL CORRECTIONS

TDE 4.1538 TRA 1.1842 TC3 -.0632 BAU 3.3972
 RD-12.2491 RRA 7.2784 RC3 .1774 FAU-.05383
 FDE-2.4441 FRA 1.6592 FC3 .0345 BSP 8237
 BOE12.9342 BRA 7.3741 BC3 .1883 FSP -146

MID-COURSE EXECUTION ACCURACY

SGT 822.6 SGR 2629.9 SG3 46.6
 RRT -.7339 RRF .9981 RTF -.6907
 SGB 2755.6 R23 -.1095 R13 .9947
 SG1 2701.3 SG2 544.0 THA 103.48

ORBIT DETERMINATION ACCURACY

ST 650.9 SR 1947.5 SS 1553.0
 CRT -.9588 CRS -.9996 CST .9508
 LSA 2567.6 MSA 188.6 SSA .6
 EL1 2045.8 EL2 176.1 ALF 107.91

LAUNCH DATE MAR 10 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 378.985

RL 148.58 LAL .00 LOL 169.25 VL 27.745 GAL -8.93 AZL 36.33 HCA 184.20 SMA 130.54 ECC .20678 INC53.6651 VI 29.988
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.732 GAP 7.12 AZP 143.59 TAL 219.75 TAP 43.94 RCA 103.55 APO 157.53 V2 34.841
 RC 136.471 GL 56.62 GP -65.69 ZAL 100.39 ZAP 98.37 ETS 191.18 ZAE 72.39 ETE 119.15 ZAC 80.93 ETC 98.89 CLP 110.70

PLANETOCENTRIC CONIC

C3 699.145 VHL 26.441 OLA 72.92 RAL 21.05 RAD 6572.7 VEL 28.643 PTH 3.43 VHP 33.198 DPA -87.88 RAP 14.18 ECC12.5062
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 19.49 14 12 13 5070.73 -.85 248.48 290.80 17.08 15 36 44 4470.7 -8.49 246.53
 160.51 0 58 4 3300.84 -.84 94.94 290.78 17.08 1 53 5 2700.8 -8.49 92.98
 19.49 14 12 13 5070.73 -.85 248.48 290.80 17.08 15 36 44 4470.7 -8.49 246.53
 160.51 0 58 4 3300.84 -.84 94.94 290.78 17.08 1 53 5 2700.8 -8.49 92.98
 19.49 14 12 13 5070.73 -.85 248.48 290.80 17.08 15 36 44 4470.7 -8.49 246.53
 160.51 0 58 4 3300.84 -.84 94.94 290.78 17.08 1 53 5 2700.8 -8.49 92.98

DIFFERENTIAL CORRECTIONS

TOE .1108 TRA .9136 TC3 -.0533 BAU 1.6305
 ROE -11.7626 RRA 2.1731 RC3 -.1661 FAU -.02049
 FDE 2.2494 FRA -.3600 FC3 .0254 BSP 9696
 BOE11.7631 BRA 2.3574 BC3 .1744 FSP -158

MID-COURSE EXECUTION ACCURACY

SGT 730.9 SGR 3136.7 SG3 49.3
 RRT .5526 RRF -.9971 RTF -.4914
 SGB 3220.7 R23 -.0969 R13 -.9949
 SG1 3163.6 SG2 604.0 THA 82.38

ORBIT DETERMINATION ACCURACY

ST 203.8 SR 2594.0 SS 1416.7
 CRT .0686 CRS .9997 CST .0441
 LSA 2955.5 MSA 205.7 SSA 1.5
 EL1 2594.0 EL2 203.3 ALF 89.69

LAUNCH DATE MAR 10 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 384.035

RL 148.58 LAL .00 LOL 169.25 VL 27.672 GAL -8.48 AZL 59.29 HCA 186.58 SMA 130.02 ECC .20409 INC30.7095 VI 29.988
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.687 GAP 7.10 AZP 120.54 TAL 217.76 TAP 44.35 RCA 103.49 APO 156.56 V2 34.850
 RC 138.775 GL 60.56 GP -73.87 ZAL 106.42 ZAP 103.89 ETS 233.19 ZAE 88.05 ETE 159.47 ZAC 95.65 ETC 141.28 CLP 149.77

PLANETOCENTRIC CONIC

C3 257.594 VHL 16.050 OLA 69.25 RAL 354.74 RAD 6571.5 VEL 19.466 PTH 3.11 VHP 20.077 DPA -72.24 RAP 55.90 ECC 5.2393
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.73 12 36 15 4965.75 -6.83 244.33 262.15 20.90 13 59 1 4365.8 -14.29 241.81
 156.27 23 0 14 3217.31 -6.82 95.19 262.13 20.90 23 53 51 2617.3 -14.28 92.67
 23.73 12 36 15 4965.75 -6.83 244.33 262.15 20.90 13 59 1 4365.8 -14.29 241.81
 156.27 23 0 14 3217.31 -6.82 95.19 262.13 20.90 23 53 51 2617.3 -14.28 92.67
 23.73 12 36 15 4965.75 -6.83 244.33 262.15 20.90 13 59 1 4365.8 -14.29 241.81
 156.27 23 0 14 3217.31 -6.82 95.19 262.13 20.90 23 53 51 2617.3 -14.28 92.67

DIFFERENTIAL CORRECTIONS

TOE 3.4779 TRA -1.5224 TC3 -.0355 BAU .1523
 ROE -2.7317 RRA 2.7173 RC3 -.0264 FAU .00529
 FDE 1.0451 FRA -.5547 FC3 -.0178 BSP 10738
 BOE 4.4224 BRA 3.1148 BC3 .0442 FSP -187

MID-COURSE EXECUTION ACCURACY

SGT 1977.0 SGR 2908.2 SG3 58.3
 RRT -.9397 RRF -.9634 RTF .9954
 SGB 3516.6 R23 -.1581 R13 -.9862
 SG1 3470.7 SG2 566.6 THA 123.58

ORBIT DETERMINATION ACCURACY

ST 1324.2 SR 1275.1 SS 709.6
 CRT -.9410 CRS .9617 CST -.9977
 LSA 1944.0 MSA 322.0 SSA 1.6
 EL1 1811.0 EL2 315.4 ALF 136.15

LAUNCH DATE MAR 10 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 389.554

RL 148.58 LAL .00 LOL 169.25 VL 27.600 GAL -8.11 AZL 69.31 HCA 189.45 SMA 129.52 ECC .20284 INC20.6892 VI 29.988
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.643 GAP 7.21 AZP 110.43 TAL 215.96 TAP 45.41 RCA 103.25 APO 155.79 V2 34.860
 RC 141.067 GL 57.27 GP -70.01 ZAL 112.29 ZAP 109.99 ETS 272.06 ZAE 97.58 ETE 196.69 ZAC 104.17 ETC 179.64 CLP 179.74

PLANETOCENTRIC CONIC

C3 131.694 VHL 11.476 OLA 63.41 RAL 353.31 RAD 6570.4 VEL 15.907 PTH 2.81 VHP 14.319 DPA -61.50 RAP 53.03 ECC 3.1673
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.56 12 45 58 4834.17 -13.13 236.91 256.62 27.36 14 6 32 4234.2 -20.20 233.42
 149.44 22 39 4 3131.46 -13.11 95.32 256.60 27.36 23 31 16 2531.5 -20.19 91.83
 30.56 12 45 58 4834.17 -13.13 236.91 256.62 27.36 14 6 32 4234.2 -20.20 233.42
 149.44 22 39 4 3131.46 -13.11 95.32 256.60 27.36 23 31 16 2531.5 -20.19 91.83
 30.56 12 45 58 4834.17 -13.13 236.91 256.62 27.36 14 6 32 4234.2 -20.20 233.42
 149.44 22 39 4 3131.46 -13.11 95.32 256.60 27.36 23 31 16 2531.5 -20.19 91.83

DIFFERENTIAL CORRECTIONS

TOE 2.6425 TRA -2.8327 TC3 -.2944 BAU .5206
 ROE .0830 RRA 1.0228 RC3 .0273 FAU .01675
 FDE .8255 FRA -.5926 FC3 -.1101 BSP 11454
 BOE 2.6438 BRA 3.0117 BC3 .2957 FSP -232

MID-COURSE EXECUTION ACCURACY

SGT 3490.5 SGR 1143.5 SG3 70.8
 RRT -.9003 RRF -.8041 RTF .9807
 SGB 3673.0 R23 -.2196 R13 -.9728
 SG1 3641.9 SG2 477.1 THA 163.27

ORBIT DETERMINATION ACCURACY

ST 1624.8 SR 344.8 SS 565.9
 CRT -.4817 CRS .3222 CST -.9848
 LSA 1725.7 MSA 317.7 SSA 2.1
 EL1 1633.5 EL2 300.5 ALF 173.96

LAUNCH DATE MAR 10 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 395.217

RL 148.58 LAL .00 LOL 169.25 VL 27.528 GAL -7.77 AZL 74.62 HCA 192.46 SMA 129.02 ECC .20211 INC15.3808 VI 29.988
 RP 108.68 LAP -3.28 LOP 357.59 VP 37.599 GAP 7.36 AZP 105.04 TAL 214.22 TAP 46.68 RCA 102.94 APO 155.10 V2 34.870
 RC 143.344 GL 52.39 GP -63.50 ZAL 117.24 ZAP 115.95 ETS 286.26 ZAE 104.45 ETE 208.71 ZAC 110.30 ETC 192.66 CLP 168.76

PLANETOCENTRIC CONIC

C3 83.395 VHL 9.132 OLA 58.28 RAL 356.77 RAD 6569.6 VEL 14.309 PTH 2.60 VHP 11.419 DPA -52.94 RAP 50.49 ECC 2.3725
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 36.58 13 14 58 4710.99 -17.95 228.77 255.23 33.55 14 33 29 4111.0 -24.55 224.34
 143.32 22 37 40 3062.94 -17.93 94.58 255.21 33.55 23 28 43 2462.9 -24.54 90.14
 36.58 13 14 58 4710.99 -17.95 228.77 255.23 33.55 14 33 29 4111.0 -24.55 224.34
 143.32 22 37 40 3062.94 -17.93 94.58 255.21 33.55 23 28 43 2462.9 -24.54 90.14
 36.58 13 14 58 4710.99 -17.95 228.77 255.23 33.55 14 33 29 4111.0 -24.55 224.34
 143.32 22 37 40 3062.94 -17.93 94.58 255.21 33.55 23 28 43 2462.9 -24.54 90.14

DIFFERENTIAL CORRECTIONS

TOE 1.9785 TRA -2.7948 TC3 -.6480 BAU .7233
 ROE .4974 RRA .3176 RC3 -.0329 FAU .02452
 FDE .7915 FRA -.5936 FC3 -.2546 BSP 11762
 BOE 2.0401 BRA 2.8128 BC3 .6488 FSP -278

MID-COURSE EXECUTION ACCURACY

SGT 3750.0 SGR 494.6 SG3 84.8
 RRT -.4342 RRF -.1761 RTF .9582
 SGB 3782.4 R23 -.2730 R13 -.9563
 SG1 3756.2 SG2 444.8 THA 176.68

ORBIT DETERMINATION ACCURACY

ST 1594.7 SR 332.1 SS 533.0
 CRT .5168 CRS -.7290 CST -.9627
 LSA 1685.6 MSA 310.1 SSA 2.9
 EL1 1604.2 EL2 282.7 ALF 6.34

LAUNCH DATE MAR 10 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 400.937

RL 148.58 LAL .00 LOL 169.25 VL 27.457 GAL -7.43 AZL 77.87 MCA 195.54 SMA 128.53 ECC .20168 INC12.1301 V1 29.988
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.557 GAP 7.52 AZP 101.70 TAL 212.48 TAP 48.02 RCA 102.61 APO 154.45 V2 34.880
 RC 145.608 GL 47.53 GP -57.15 ZAL 121.14 ZAP 121.48 ETS 292.26 ZAE 109.75 ETE 212.05 ZAC 115.24 ETC 197.01 CLP-164.30

PLANETOCENTRIC CONIC

C3 60.152 VHL 7.756 DLA 53.91 RAL .90 RAD 6569.1 VEL 13.473 PTH 2.46 VHP 9.782 DPA -45.63 RAP 48.83 ECC 1.9899
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 42.01 13 46 8 4603.87 -21.12 220.74 254.57 39.16 15 2 52 4003.9 -27.22 215.48
 137.99 22 39 29 3016.18 -21.10 93.65 254.55 39.16 23 29 46 2416.2 -27.21 88.39
 42.01 13 46 8 4603.87 -21.12 220.74 254.57 39.16 15 2 52 4003.9 -27.22 215.48
 137.99 22 39 29 3016.18 -21.10 93.65 254.55 39.16 23 29 46 2416.2 -27.21 88.39
 42.01 13 46 8 4603.87 -21.12 220.74 254.57 39.16 15 2 52 4003.9 -27.22 215.48
 137.99 22 39 29 3016.18 -21.10 93.65 254.55 39.16 23 29 46 2416.2 -27.21 88.39

DIFFERENTIAL CORRECTIONS

TDE 1.6302 TRA-2.6320 TC3-1.0286 BAU .8312
 ROE .5199 RRA .0908 RC3 -.1016 FAU .03066
 FDE .7742 FRA -.5733 FC3 -.4412 BSP 12104
 BOE 1.7111 BRA 2.6336 BC3 1.0336 FSP -325

MID-COURSE EXECUTION ACCURACY

SGT 3858.7 SGR 430.5 SG3 99.0
 RRT .2037 RRF .4983 RTF .9396
 SGB 3882.6 R23 .3110 R13 .9404
 SG1 3859.7 SG2 421.4 THA 1.32

ORBIT DETERMINATION ACCURACY

ST 1559.8 SR 385.6 SS 516.9
 CRT .7132 CRS -.9006 CST -.9469
 LSA 1660.5 MSA 302.6 SSA 3.9
 EL1 1584.6 EL2 266.1 ALF 10.29

LAUNCH DATE MAR 10 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 406.682

RL 148.58 LAL .00 LOL 169.25 VL 27.386 GAL -7.10 AZL 80.06 MCA 198.65 SMA 128.05 ECC .20146 INC 9.9367 V1 29.988
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.516 GAP 7.70 AZP 99.42 TAL 210.74 TAP 49.39 RCA 102.25 APO 153.85 V2 34.891
 RC 147.857 GL 43.10 GP -51.44 ZAL 124.05 ZAP 126.48 ETS 295.56 ZAE 113.93 ETE 212.42 ZAC 119.44 ETC 198.41 CLP-162.51

PLANETOCENTRIC CONIC

C3 47.097 VHL 6.863 DLA 50.22 RAL 4.91 RAD 6568.8 VEL 12.979 PTH 2.37 VHP 8.789 DPA -39.27 RAP 47.94 ECC 1.7751
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 46.62 14 16 8 4511.55 -23.03 213.23 254.20 44.04 15 31 20 3911.5 -28.65 207.32
 133.38 22 41 25 2987.46 -23.01 92.92 254.18 44.04 23 31 13 2387.5 -28.64 87.01
 46.62 14 16 8 4511.55 -23.03 213.23 254.20 44.04 15 31 20 3911.5 -28.65 207.32
 133.38 22 41 25 2987.46 -23.01 92.92 254.18 44.04 23 31 13 2387.5 -28.64 87.01
 46.62 14 16 8 4511.55 -23.03 213.23 254.20 44.04 15 31 20 3911.5 -28.65 207.32
 133.38 22 41 25 2987.46 -23.01 92.92 254.18 44.04 23 31 13 2387.5 -28.64 87.01

DIFFERENTIAL CORRECTIONS

TDE 1.4103 TRA-2.4762 TC3-1.4190 BAU .8989
 ROE .4785 RRA .0107 RC3 -.1567 FAU .03544
 FDE .7474 FRA -.5345 FC3 -.6514 BSP 12433
 BOE 1.4893 BRA 2.4762 BC3 1.4276 FSP -368

MID-COURSE EXECUTION ACCURACY

SGT 3952.2 SGR 453.9 SG3 111.8
 RRT .4706 RRF .7350 RTF .9246
 SGB 3978.2 R23 .3348 R13 .9265
 SG1 3958.1 SG2 399.9 THA 3.13

ORBIT DETERMINATION ACCURACY

ST 1526.3 SR 399.6 SS 500.2
 CRT .7653 CRS -.9445 CST -.9341
 LSA 1628.4 MSA 296.1 SSA 5.0
 EL1 1557.4 EL2 252.0 ALF 11.64

LAUNCH DATE MAR 10 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 412.437

RL 148.58 LAL .00 LOL 169.25 VL 27.316 GAL -6.76 AZL 81.65 MCA 201.79 SMA 127.58 ECC .20141 INC 8.3528 V1 29.988
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.475 GAP 7.88 AZP 97.76 TAL 208.99 TAP 50.78 RCA 101.88 APO 153.28 V2 34.902
 RC 150.092 GL 39.18 GP -46.45 ZAL 126.06 ZAP 130.91 ETS 297.75 ZAE 117.25 ETE 211.58 ZAC 123.13 ETC 198.60 CLP-161.91

PLANETOCENTRIC CONIC

C3 38.910 VHL 6.238 DLA 47.14 RAL 8.66 RAD 6568.5 VEL 12.660 PTH 2.30 VHP 8.158 DPA -33.71 RAP 47.62 ECC 1.6404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.60 14 44 30 4430.92 -24.11 206.40 254.14 48.18 15 58 21 3830.9 -29.29 199.99
 129.40 22 43 3 2971.89 -24.10 92.52 254.12 48.17 23 32 35 2371.9 -29.28 86.11
 50.60 14 44 30 4430.92 -24.11 206.40 254.14 48.18 15 58 21 3830.9 -29.29 199.99
 129.40 22 43 3 2971.89 -24.10 92.52 254.12 48.17 23 32 35 2371.9 -29.28 86.11
 50.60 14 44 30 4430.92 -24.11 206.40 254.14 48.18 15 58 21 3830.9 -29.29 199.99
 129.40 22 43 3 2971.89 -24.10 92.52 254.12 48.17 23 32 35 2371.9 -29.28 86.11

DIFFERENTIAL CORRECTIONS

TDE 1.2529 TRA-2.3350 TC3-1.8112 BAU .9476
 ROE .4319 RRA -.0185 RC3 -.1957 FAU .03898
 FDE .7098 FRA -.4820 FC3 -.8673 BSP 12774
 BOE 1.3252 BRA 2.3351 BC3 1.8217 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 4046.2 SGR 466.5 SG3 122.8
 RRT .5758 RRF .8131 RTF .9126
 SGB 4073.0 R23 .3461 R13 .9148
 SG1 4055.2 SG2 380.6 THA 3.83

ORBIT DETERMINATION ACCURACY

ST 1491.2 SR 396.9 SS 480.3
 CRT .7842 CRS -.9628 CST -.9224
 LSA 1589.7 MSA 291.0 SSA 6.3
 EL1 1524.2 EL2 240.9 ALF 12.10

LAUNCH DATE MAR 10 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 418.197

RL 148.58 LAL .00 LOL 169.25 VL 27.247 GAL -6.41 AZL 82.85 MCA 204.94 SMA 127.12 ECC .20153 INC 7.1504 V1 29.988
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.436 GAP 8.06 AZP 96.49 TAL 207.23 TAP 52.17 RCA 101.50 APO 152.74 V2 34.914
 RC 152.312 GL 35.71 GP -42.13 ZAL 127.32 ZAP 134.82 ETS 299.39 ZAE 119.88 ETE 210.22 ZAC 126.46 ETC 198.26 CLP-161.89

PLANETOCENTRIC CONIC

C3 33.335 VHL 5.774 DLA 44.56 RAL 12.22 RAD 6568.3 VEL 12.438 PTH 2.25 VHP 7.749 DPA -28.82 RAP 47.77 ECC 1.5486
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.03 15 11 20 4359.39 -24.69 200.24 254.41 51.65 16 23 59 3759.4 -29.48 193.46
 125.97 22 44 35 2965.31 -24.67 92.43 254.40 51.64 23 34 0 2365.3 -29.46 85.65
 54.03 15 11 20 4359.39 -24.69 200.24 254.41 51.65 16 23 59 3759.4 -29.48 193.46
 125.97 22 44 35 2965.31 -24.67 92.43 254.40 51.64 23 34 0 2365.3 -29.46 85.65
 54.03 15 11 20 4359.39 -24.69 200.24 254.41 51.65 16 23 59 3759.4 -29.48 193.46
 125.97 22 44 35 2965.31 -24.67 92.43 254.40 51.64 23 34 0 2365.3 -29.46 85.65

DIFFERENTIAL CORRECTIONS

TDE 1.1316 TRA-2.2048 TC3-2.2042 BAU .9873
 ROE .3915 RRA -.0289 RC3 -.2225 FAU .04151
 FDE .6635 FRA -.4218 FC3 -1.0779 BSP 13162
 BOE 1.1974 BRA 2.2050 BC3 2.2154 FSP -438

MID-COURSE EXECUTION ACCURACY

SGT 4143.6 SGR 467.6 SG3 131.8
 RRT .6267 RRF .8401 RTF .9034
 SGB 4169.9 R23 .3459 R13 .9056
 SG1 4154.0 SG2 363.5 THA 4.08

ORBIT DETERMINATION ACCURACY

ST 1454.5 SR 388.8 SS 457.0
 CRT .7923 CRS -.9730 CST -.9111
 LSA 1547.2 MSA 285.9 SSA 7.7
 EL1 1487.6 EL2 232.0 ALF 12.26

LAUNCH DATE MAR 10 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 423.954

RL 148.58 LAL .00 LOL 169.25 VL 27.179 GAL -6.06 AZL 83.80 MCA 208.09 SMA 126.67 ECC .20182 INC 6.2020 V1 29.988
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.397 GAP 8.25 AZP 95.48 TAL 205.47 TAP 53.56 RCA 101.10 APO 152.23 V2 34.926
 RC 154.516 GL 32.65 GP -38.40 ZAL 127.92 ZAP 138.26 ETS 300.68 ZAE 121.98 ETE 208.66 ZAC 129.53 ETC 197.67 CLP-162.20

PLANETOCENTRIC CONIC

C3 29.296 VHL 5.413 DLA 42.40 RAL 15.64 RAD 6568.2 VEL 12.275 PTH 2.21 VHP 7.482 DPA -24.51 RAP 48.26 ECC 1.4821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.02 15 36 54 4295.03 -24.96 194.70 255.01 54.54 16 48 29 3695.0 -29.41 187.64
 122.98 22 46 17 2964.74 -24.95 92.61 254.99 54.53 23 35 42 2364.7 -29.40 85.55
 57.02 15 36 54 4295.03 -24.96 194.70 255.01 54.54 16 48 29 3695.0 -29.41 187.64
 122.98 22 46 17 2964.74 -24.95 92.61 254.99 54.53 23 35 42 2364.7 -29.40 85.55
 57.02 15 36 54 4295.03 -24.96 194.70 255.01 54.54 16 48 29 3695.0 -29.41 187.64
 122.98 22 46 17 2964.74 -24.95 92.61 254.99 54.53 23 35 42 2364.7 -29.40 85.55

DIFFERENTIAL CORRECTIONS

TDE 1.0127 TRA-2.1029 TC3-2.6294 BAU 1.0344
 RDE .3537 RRA -.0381 RC3 -.2488 FAU .04397
 FDE .5966 FRA -.3749 FC3-1.2994 BSP 14138
 BOE 1.0727 BRA 2.1032 BC3 2.6412 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 4282.3 SGR 464.5 SG3 141.1
 RRT .6700 RRF .8500 RTF .9011
 SGB 4307.4 R23 .3264 R13 .9030
 SG1 4293.7 SG2 343.9 THA 4.18

ORBIT DETERMINATION ACCURACY

ST 1405.1 SR 374.9 SS 422.2
 CRT .7915 CRS -.9779 CST -.9005
 LSA 1488.6 MSA 277.9 SSA 9.5
 EL1 1436.9 EL2 224.1 ALF 12.23

LAUNCH DATE MAR 10 1969

FLIGHT TIME 144.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 429.717

RL 148.58 LAL .00 LOL 169.25 VL 27.111 GAL -5.69 AZL 84.57 MCA 211.26 SMA 126.23 ECC .20224 INC 5.4310 V1 29.988
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.360 GAP 8.44 AZP 94.65 TAL 203.69 TAP 54.95 RCA 100.70 APO 151.76 V2 34.938
 RC 156.704 GL 29.91 GP -35.18 ZAL 127.94 ZAP 141.29 ETS 301.73 ZAE 123.66 ETE 207.08 ZAC 132.40 ETC 197.01 CLP-162.69

PLANETOCENTRIC CONIC

C3 26.216 VHL 5.120 DLA 40.59 RAL 18.99 RAD 6568.1 VEL 12.149 PTH 2.18 VHP 7.309 DPA -20.70 RAP 49.05 ECC 1.4314
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.61 16 1 26 4236.51 -25.07 189.71 255.92 56.96 17 12 3 3636.5 -29.23 182.44
 120.39 22 48 27 2967.93 -25.05 92.96 255.91 56.95 23 37 55 2367.9 -29.21 85.70
 59.61 16 1 26 4236.51 -25.07 189.71 255.92 56.96 17 12 3 3636.5 -29.23 182.44
 120.39 22 48 27 2967.93 -25.05 92.96 255.91 56.95 23 37 55 2367.9 -29.21 85.70
 59.61 16 1 26 4236.51 -25.07 189.71 255.92 56.96 17 12 3 3636.5 -29.23 182.44
 120.39 22 48 27 2967.93 -25.05 92.96 255.91 56.95 23 37 55 2367.9 -29.21 85.70

DIFFERENTIAL CORRECTIONS

TDE .9881 TRA-1.9278 TC3-2.9503 BAU 1.0375
 RDE .3414 RRA -.0244 RC3 -.2410 FAU .04307
 FDE .5835 FRA -.2687 FC3-1.4222 BSP 13300
 BOE 1.0455 BRA 1.9280 BC3 2.9601 FSP -446

MID-COURSE EXECUTION ACCURACY

SGT 4292.0 SGR 456.3 SG3 142.1
 RRT .6486 RRF .8305 RTF .8851
 SGB 4316.1 R23 .3319 R13 .8870
 SG1 4302.2 SG2 346.5 THA 3.97

ORBIT DETERMINATION ACCURACY

ST 1399.0 SR 382.3 SS 420.0
 CRT .8083 CRS -.9875 CST -.8890
 LSA 1483.8 MSA 279.4 SSA 10.8
 EL1 1433.6 EL2 219.6 ALF 12.76

LAUNCH DATE MAR 10 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 435.470

RL 148.58 LAL .00 LOL 169.25 VL 27.045 GAL -5.32 AZL 85.21 MCA 214.43 SMA 125.79 ECC .20284 INC 4.7883 V1 29.988
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.323 GAP 8.63 AZP 93.95 TAL 201.90 TAP 56.33 RCA 100.28 APO 151.31 V2 34.951
 RC 158.875 GL 27.44 GP -32.39 ZAL 127.48 ZAP 143.98 ETS 302.57 ZAE 125.01 ETE 205.54 ZAC 135.14 ETC 196.32 CLP-163.30

PLANETOCENTRIC CONIC

C3 23.787 VHL 4.877 DLA 39.06 RAL 22.31 RAD 6568.0 VEL 12.048 PTH 2.15 VHP 7.203 DPA -17.31 RAP 50.06 ECC 1.3915
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.88 16 25 13 4182.83 -25.07 185.18 257.13 59.01 17 34 56 3582.8 -28.98 177.76
 118.12 22 51 12 2973.73 -25.06 93.46 257.12 59.00 23 40 46 2373.7 -28.97 86.04
 61.88 16 25 13 4182.83 -25.07 185.18 257.13 59.01 17 34 56 3582.8 -28.98 177.76
 118.12 22 51 12 2973.73 -25.06 93.46 257.12 59.00 23 40 46 2373.7 -28.97 86.04
 61.88 16 25 13 4182.83 -25.07 185.18 257.13 59.01 17 34 56 3582.8 -28.98 177.76
 118.12 22 51 12 2973.73 -25.06 93.46 257.12 59.00 23 40 46 2373.7 -28.97 86.04

DIFFERENTIAL CORRECTIONS

TDE .9246 TRA-1.8048 TC3-3.3462 BAU 1.0671
 RDE .3221 RRA -.0236 RC3 -.2491 FAU .04346
 FDE .5326 FRA -.2034 FC3-1.5818 BSP 13765
 BOE .9791 BRA 1.8049 BC3 3.3555 FSP -468

MID-COURSE EXECUTION ACCURACY

SGT 4392.0 SGR 451.1 SG3 146.3
 RRT .6570 RRF .8152 RTF .8816
 SGB 4415.1 R23 .3084 R13 .8833
 SG1 4402.0 SG2 339.3 THA 3.88

ORBIT DETERMINATION ACCURACY

ST 1364.0 SR 378.6 SS 394.7
 CRT .8142 CRS -.9916 CST -.8784
 LSA 1443.8 MSA 273.6 SSA 12.7
 EL1 1399.2 EL2 214.2 ALF 13.05

LAUNCH DATE MAR 10 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 441.219

RL 148.58 LAL .00 LOL 169.25 VL 26.979 GAL -4.95 AZL 85.76 MCA 217.61 SMA 125.37 ECC .20360 INC 4.2414 V1 29.988
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.287 GAP 8.82 AZP 93.36 TAL 200.11 TAP 57.71 RCA 99.85 APO 150.90 V2 34.964
 RC 161.027 GL 25.19 GP -29.97 ZAL 126.59 ZAP 146.36 ETS 303.23 ZAE 126.11 ETE 204.10 ZAC 137.77 ETC 195.64 CLP-163.97

PLANETOCENTRIC CONIC

C3 21.813 VHL 4.670 DLA 37.76 RAL 25.66 RAD 6567.9 VEL 11.966 PTH 2.13 VHP 7.146 DPA -14.29 RAP 51.26 ECC 1.3590
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.90 16 48 26 4133.32 -25.02 181.05 258.61 60.75 17 57 20 3533.3 -28.72 173.51
 116.10 22 54 43 2981.12 -25.01 94.04 258.61 60.74 23 44 24 2381.1 -28.71 86.50
 63.90 16 48 26 4133.32 -25.02 181.05 258.61 60.75 17 57 20 3533.3 -28.72 173.51
 116.10 22 54 43 2981.12 -25.01 94.04 258.61 60.74 23 44 24 2381.1 -28.71 86.50
 63.90 16 48 26 4133.32 -25.02 181.05 258.61 60.75 17 57 20 3533.3 -28.72 173.51
 116.10 22 54 43 2981.12 -25.01 94.04 258.61 60.74 23 44 24 2381.1 -28.71 86.50

DIFFERENTIAL CORRECTIONS

TDE .8803 TRA-1.6707 TC3-3.7308 BAU 1.0905
 RDE .3089 RRA -.0203 RC3 -.2522 FAU .04314
 FDE .4891 FRA -.1333 FC3-1.7120 BSP 14036
 BOE .9329 BRA 1.6708 BC3 3.7394 FSP -475

MID-COURSE EXECUTION ACCURACY

SGT 4475.7 SGR 447.4 SG3 148.7
 RRT .6552 RRF .7934 RTF .8775
 SGB 4498.0 R23 .2848 R13 .8789
 SG1 4485.4 SG2 337.2 THA 3.77

ORBIT DETERMINATION ACCURACY

ST 1334.9 SR 379.2 SS 373.6
 CRT .8245 CRS -.9951 CST -.8681
 LSA 1411.9 MSA 267.9 SSA 14.6
 EL1 1371.9 EL2 208.7 ALF 13.50

LAUNCH DATE MAR 10 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 446.962

RL 148.58 LAL .00 LOL 169.25 VL 26.914 GAL -4.56 AZL 86.23 MCA 220.79 SMA 124.96 ECC .20452 INC 3.7678 V1 29.988
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.252 GAP 9.02 AZP 92.85 TAL 198.30 TAP 59.09 RCA 99.40 APO 150.51 V2 34.977
 RC 163.161 GL 23.11 GP -27.86 ZAL 125.31 ZAP 148.50 ETS 303.72 ZAE 127.02 ETE 202.76 ZAC 140.34 ETC 195.00 CLP-164.68

PLANETOCENTRIC CONIC

C3 20.178 VHL 4.492 DLA 36.64 RAL 29.07 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 7.125 DPA -11.56 RAP 52.62 ECC 1.3321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.70 17 11 24 4087.18 -24.95 177.25 260.38 62.24 18 19 31 3487.2 -28.45 169.62
 114.30 22 58 58 2989.86 -24.93 94.70 260.37 62.23 23 48 47 2389.9 -28.44 87.07
 65.70 17 11 24 4087.18 -24.95 177.25 260.38 62.24 18 19 31 3487.2 -28.45 169.62
 114.30 22 58 58 2989.86 -24.93 94.70 260.37 62.23 23 48 47 2389.9 -28.44 87.07
 65.70 17 11 24 4087.18 -24.95 177.25 260.38 62.24 18 19 31 3487.2 -28.45 169.62
 114.30 22 58 58 2989.86 -24.93 94.70 260.37 62.23 23 48 47 2389.9 -28.44 87.07

DIFFERENTIAL CORRECTIONS

TOE .8438 TRA-1.5332 TC3-4.1181 BAU 1.1130
 RDE .2992 RRA -.0167 RC3 -.2546 FAU .04250
 FDE .4476 FRA -.0658 FC3-1.8233 BSP 14327
 BOE .8953 BRA 1.5333 BC3 4.1259 FSP -480

MID-COURSE EXECUTION ACCURACY

SGT 4559.2 SGR 445.7 SG3 150.1
 RRT .6504 RRF .7686 RTF .8746
 SGB 4581.0 R23 .2589 R13 .8759
 SG1 4568.5 SG2 337.9 THA 3.66

ORBIT DETERMINATION ACCURACY

ST 1305.9 SR 381.8 SS 353.3
 CRT .8371 CRS -.9971 CST -.8578
 LSA 1381.1 MSA 261.2 SSA 16.8
 EL1 1345.4 EL2 202.7 ALF 14.08

LAUNCH DATE MAR 10 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 452.698

RL 148.58 LAL .00 LOL 169.25 VL 26.849 GAL -4.16 AZL 86.65 MCA 223.97 SMA 124.55 ECC .20563 INC 3.3512 V1 29.988
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.218 GAP 9.23 AZP 92.41 TAL 196.49 TAP 60.46 RCA 98.94 APO 150.16 V2 34.990
 RC 165.276 GL 21.16 GP -26.02 ZAL 123.68 ZAP 150.42 ETS 304.05 ZAE 127.77 ETE 201.54 ZAC 142.86 ETC 194.40 CLP-165.41

PLANETOCENTRIC CONIC

C3 18.806 VHL 4.337 DLA 35.67 RAL 32.57 RAD 6567.8 VEL 11.840 PTH 2.10 VHP 7.132 DPA -9.10 RAP 54.12 ECC 1.3095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.34 17 34 17 4043.95 -24.84 173.73 262.41 63.54 18 41 41 3444.0 -28.19 166.02
 112.66 23 4 0 2999.72 -24.83 95.43 262.41 63.53 23 53 59 2399.7 -28.17 87.73
 67.34 17 34 17 4043.95 -24.84 173.73 262.41 63.54 18 41 41 3444.0 -28.19 166.02
 112.66 23 4 0 2999.72 -24.83 95.43 262.41 63.53 23 53 59 2399.7 -28.17 87.73
 67.34 17 34 17 4043.95 -24.84 173.73 262.41 63.54 18 41 41 3444.0 -28.19 166.02
 112.66 23 4 0 2999.72 -24.83 95.43 262.41 63.53 23 53 59 2399.7 -28.17 87.73

DIFFERENTIAL CORRECTIONS

TOE .8138 TRA-1.3895 TC3-4.5037 BAU 1.1342
 RDE .2920 RRA -.0124 RC3 -.2568 FAU .04159
 FDE .4079 FRA -.0002 FC3-1.9147 BSP 14600
 BOE .8646 BRA 1.3896 BC3 4.5110 FSP -482

MID-COURSE EXECUTION ACCURACY

SGT 4639.0 SGR 445.9 SG3 150.8
 RRT .6431 RRF .7421 RTF .8726
 SGB 4660.4 R23 .2324 R13 .8736
 SG1 4647.9 SG2 340.8 THA 3.56

ORBIT DETERMINATION ACCURACY

ST 1276.4 SR 385.9 SS 333.5
 CRT .8520 CRS -.9971 CST -.8473
 LSA 1350.9 MSA 253.2 SSA 19.2
 EL1 1319.1 EL2 195.5 ALF 14.78

LAUNCH DATE MAR 10 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 458.426

RL 148.58 LAL .00 LOL 169.25 VL 26.786 GAL -3.75 AZL 87.02 MCA 227.16 SMA 124.16 ECC .20691 INC 2.9797 V1 29.988
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.185 GAP 9.43 AZP 92.03 TAL 194.67 TAP 61.83 RCA 98.47 APO 149.84 V2 35.003
 RC 167.370 GL 19.31 GP -24.40 ZAL 121.72 ZAP 152.16 ETS 304.21 ZAE 128.40 ETE 200.44 ZAC 145.34 ETC 193.84 CLP-166.16

PLANETOCENTRIC CONIC

C3 17.648 VHL 4.201 DLA 34.80 RAL 36.18 RAD 6567.7 VEL 11.791 PTH 2.08 VHP 7.161 DPA -6.87 RAP 55.74 ECC 1.2904
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.87 17 57 22 4002.96 -24.72 170.42 264.72 64.69 19 4 5 3403.0 -27.92 162.65
 111.13 23 9 43 3010.99 -24.71 96.26 264.71 64.67 23 59 54 2411.0 -27.90 88.49
 68.87 17 57 22 4002.96 -24.72 170.42 264.72 64.69 19 4 5 3403.0 -27.92 162.65
 111.13 23 9 43 3010.99 -24.71 96.26 264.71 64.67 23 59 54 2411.0 -27.90 88.49
 68.87 17 57 22 4002.96 -24.72 170.42 264.72 64.69 19 4 5 3403.0 -27.92 162.65
 111.13 23 9 43 3010.99 -24.71 96.26 264.71 64.67 23 59 54 2411.0 -27.90 88.49

DIFFERENTIAL CORRECTIONS

TOE .7906 TRA-1.2369 TC3-4.8799 BAU 1.1529
 RDE .2872 RRA -.0071 RC3 -.2581 FAU .04041
 FDE .3722 FRA .0648 FC3-1.9823 BSP 14800
 BOE .8412 BRA 1.2369 BC3 4.8867 FSP -478

MID-COURSE EXECUTION ACCURACY

SGT 4711.0 SGR 448.0 SG3 150.7
 RRT .6330 RRF .7151 RTF .8706
 SGB 4732.3 R23 .2080 R13 .8716
 SG1 4719.6 SG2 346.2 THA 3.46

ORBIT DETERMINATION ACCURACY

ST 1248.1 SR 391.8 SS 316.2
 CRT .8699 CRS -.9941 CST -.8366
 LSA 1323.4 MSA 244.0 SSA 21.8
 EL1 1294.8 EL2 186.3 ALF 15.61

LAUNCH DATE MAR 10 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 464.145

RL 148.58 LAL .00 LOL 169.25 VL 26.723 GAL -3.33 AZL 87.36 MCA 230.35 SMA 123.77 ECC .20839 INC 2.6445 V1 29.988
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.153 GAP 9.65 AZP 91.69 TAL 192.84 TAP 63.20 RCA 97.98 APO 149.56 V2 35.016
 RC 169.445 GL 17.55 GP -22.96 ZAL 119.47 ZAP 153.74 ETS 304.20 ZAE 128.93 ETE 199.43 ZAC 147.80 ETC 193.32 CLP-166.91

PLANETOCENTRIC CONIC

C3 16.671 VHL 4.083 DLA 34.01 RAL 39.92 RAD 6567.7 VEL 11.750 PTH 2.07 VHP 7.209 DPA -4.83 RAP 57.46 ECC 1.2744
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.33 18 20 56 3963.59 -24.56 167.26 267.30 65.71 19 26 59 3363.6 -27.63 159.44
 109.67 23 16 1 3024.05 -24.55 97.20 267.29 65.69 24 6 25 2424.0 -27.62 89.39
 70.33 18 20 56 3963.59 -24.56 167.26 267.30 65.71 19 26 59 3363.6 -27.63 159.44
 109.67 23 16 1 3024.05 -24.55 97.20 267.29 65.69 24 6 25 2424.0 -27.62 89.39
 110.00 23 44 17 2937.84 -26.83 91.56 268.37 67.97 24 33 15 2337.8 -29.57 83.45
 110.00 22 51 50 3097.80 -22.33 101.80 266.14 63.42 23 43 28 2497.8 -25.71 94.28

DIFFERENTIAL CORRECTIONS

TOE .7655 TRA-1.0808 TC3-5.2547 BAU 1.1726
 RDE .2833 RRA -.0016 RC3 -.2611 FAU .03919
 FDE .3351 FRA .1248 FC3-2.0355 BSP 15074
 BOE .8163 BRA 1.0808 BC3 5.2612 FSP -478

MID-COURSE EXECUTION ACCURACY

SGT 4786.8 SGR 451.1 SG3 150.4
 RRT .6236 RRF .6888 RTF .8704
 SGB 4808.0 R23 .1830 R13 .8712
 SG1 4795.1 SG2 352.0 THA 3.38

ORBIT DETERMINATION ACCURACY

ST 1213.2 SR 397.6 SS 297.2
 CRT .8880 CRS -.9869 CST -.8237
 LSA 1289.7 MSA 233.0 SSA 25.0
 EL1 1264.6 EL2 175.4 ALF 16.55

LAUNCH DATE MAR 10 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 469.853

RL 148.58 LAL .00 LOL 169.25 VL 26.662 GAL -2.89 AZL 87.66 MCA 233.55 SMA 123.39 ECC .21006 INC 2.3387 V1 29.988
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.121 GAP 9.87 AZP 91.39 TAL 191.01 TAP 64.56 RCA 97.47 APO 149.31 V2 35.030
 RC 171.498 GL 15.84 GP -21.69 ZAL 116.94 ZAP 155.19 ETS 304.04 ZAE 129.40 ETE 198.53 ZAC 150.25 ETC 192.82 CLP-167.66

PLANETOCENTRIC CONIC

C3 15.853 VHL 3.982 CLA 33.26 RAL 43.81 RAD 6567.6 VEL 11.715 PTH 2.06 VHP 7.272 DPA -2.97 RAP 59.27 ECC 1.2609
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.77 18 45 22 3924.71 -24.37 164.15 270.15 66.63 19 50 46 3324.7 -27.32 156.30
 108.23 23 22 34 3040.00 -24.36 98.35 270.14 66.62 24 13 14 2440.0 -27.30 90.50
 71.77 18 45 22 3924.71 -24.37 164.15 270.15 66.63 19 50 46 3324.7 -27.32 156.30
 108.23 23 22 34 3040.00 -24.36 98.35 270.14 66.62 24 13 14 2440.0 -27.30 90.50
 110.00 0 37 27 2822.37 -29.53 83.66 272.34 71.94 1 24 29 2222.4 -31.71 75.13
 110.00 22 33 35 3190.34 -19.40 107.39 267.54 61.29 23 26 45 2590.3 -23.08 100.18

DIFFERENTIAL CORRECTIONS

TDE .7401 TRA -.9166 TC3-5.6142 BAU 1.1912
 RDE .2805 RRA .0049 RC3 -.2643 FAU .03787
 FDE .2991 FRA .1831 FC3-2.0681 BSP 15339
 BDE .7914 BRA .9166 BC3 5.6204 FSP -477

MID-COURSE EXECUTION ACCURACY

SGT 4859.0 SGR 455.3 SG3 149.6
 RRT .6136 RRF .6635 RTF .8707
 SGB 4880.2 R23 .1599 R13 .8714
 SG1 4867.0 SG2 358.9 THA 3.31

ORBIT DETERMINATION ACCURACY

ST 1173.1 SR 403.7 SS 278.6
 CRT .9070 CRS -.9736 CST -.8079
 LSA 1251.9 MSA 220.5 SSA 28.7
 EL1 1229.9 EL2 162.2 ALF 17.65

LAUNCH DATE MAR 10 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 475.551

RL 148.58 LAL .00 LOL 169.25 VL 26.601 GAL -2.45 AZL 87.94 MCA 236.75 SMA 123.02 ECC .21195 INC 2.0569 V1 29.988
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.090 GAP 10.10 AZP 91.13 TAL 189.18 TAP 65.92 RCA 96.94 APO 149.09 V2 35.043
 RC 173.532 GL 14.17 GP -20.57 ZAL 114.15 ZAP 156.52 ETS 303.72 ZAE 129.80 ETE 197.71 ZAC 152.69 ETC 192.35 CLP-168.42

PLANETOCENTRIC CONIC

C3 15.182 VHL 3.896 CLA 32.54 RAL 47.84 RAD 6567.6 VEL 11.686 PTH 2.06 VHP 7.349 DPA -1.26 RAP 61.17 ECC 1.2499
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.27 19 10 59 3885.41 -24.12 161.01 273.27 67.48 20 15 45 3285.4 -26.96 153.14
 106.73 23 29 5 3059.80 -24.11 99.75 273.27 67.46 24 20 5 2459.8 -26.95 91.88
 73.27 19 10 59 3885.41 -24.12 161.01 273.27 67.48 20 15 45 3285.4 -26.96 153.14
 106.73 23 29 5 3059.80 -24.11 99.75 273.27 67.46 24 20 5 2459.8 -26.95 91.88
 110.00 1 13 35 2749.66 -30.95 78.48 275.91 74.70 1 59 25 2149.7 -32.73 69.71
 110.00 22 29 35 3243.54 -17.63 110.50 269.87 60.23 23 33 39 2643.5 -21.46 103.46

DIFFERENTIAL CORRECTIONS

TDE .7128 TRA -.7438 TC3-5.9481 BAU 1.2085
 RDE .2786 RRA .0123 RC3 -.2672 FAU .03645
 FDE .2638 FRA .2394 FC3-2.0785 BSP 15574
 BDE .7653 BRA .7439 BC3 5.9541 FSP -473

MID-COURSE EXECUTION ACCURACY

SGT 4926.2 SGR 460.0 SG3 148.4
 RRT .6031 RRF .6396 RTF .8716
 SGB 4947.6 R23 .1391 R13 .8722
 SG1 4934.1 SG2 366.4 THA 3.24

ORBIT DETERMINATION ACCURACY

ST 1126.7 SR 409.7 SS 260.7
 CRT .9265 RS -.9513 CST -.7883
 LSA 1209.0 MSA 206.4 SSA 33.3
 EL1 1190.0 EL2 146.0 ALF 18.92

LAUNCH DATE MAR 10 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 481.236

RL 148.58 LAL .00 LOL 169.25 VL 26.541 GAL -1.99 AZL 88.21 MCA 239.95 SMA 122.66 ECC .21407 INC 1.7949 V1 29.988
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.059 GAP 10.34 AZP 90.90 TAL 187.34 TAP 67.29 RCA 96.40 APO 148.91 V2 35.056
 RC 175.544 GL 12.54 GP -19.56 ZAL 111.11 ZAP 157.75 ETS 303.22 ZAE 130.16 ETE 196.98 ZAC 155.12 ETC 191.89 CLP-169.17

PLANETOCENTRIC CONIC

C3 14.651 VHL 3.828 CLA 31.81 RAL 52.01 RAD 6567.6 VEL 11.663 PTH 2.05 VHP 7.439 DPA .31 RAP 63.14 ECC 1.2411
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.88 19 38 23 3843.96 -23.81 157.71 276.67 68.26 20 42 27 3244.0 -26.55 149.82
 105.12 23 34 59 3085.32 -23.80 101.56 276.66 68.25 24 26 24 2485.3 -26.54 93.67
 74.88 19 38 23 3843.96 -23.81 157.71 276.67 68.26 20 42 27 3244.0 -26.55 149.82
 105.12 23 34 59 3085.32 -23.80 101.56 276.66 68.25 24 26 24 2485.3 -26.54 93.67
 110.00 1 46 11 2690.83 -31.92 74.17 279.55 77.08 2 31 2 2090.8 -33.37 65.24
 110.00 22 30 17 3286.44 -16.17 112.96 272.68 59.46 23 25 3 2686.4 -20.10 106.04

DIFFERENTIAL CORRECTIONS

TDE .6827 TRA -.5609 TC3-6.2444 BAU 1.2242
 RDE .2775 RRA .0209 RC3 -.2695 FAU .03494
 FDE .2298 FRA .2946 FC3-2.0649 BSP 15764
 BDE .7370 BRA .5613 BC3 6.2502 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 4987.1 SGR 465.2 SG3 146.8
 RRT .5924 RRF .6176 RTF .8728
 SGB 5008.8 R23 .1212 R13 .8734
 SG1 4994.8 SG2 374.2 THA 3.18

ORBIT DETERMINATION ACCURACY

ST 1073.7 SR 415.5 SS 244.6
 CRT .9460 CRS -.9163 CST -.7641
 LSA 1160.8 MSA 191.0 SSA 39.1
 EL1 1144.4 EL2 126.4 ALF 20.37

LAUNCH DATE MAR 10 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 486.906

RL 148.58 LAL .00 LOL 169.25 VL 26.482 GAL -1.51 AZL 88.45 MCA 243.15 SMA 122.30 ECC .21642 INC 1.5491 V1 29.988
 RP 108.06 LAP -1.38 LOP 52.39 VP 37.030 GAP 10.58 AZP 90.70 TAL 185.50 TAP 68.65 RCA 95.83 APO 148.77 V2 35.069
 RC 177.535 GL 10.93 GP -18.66 ZAL 107.85 ZAP 158.88 ETS 302.56 ZAE 130.49 ETE 196.31 ZAC 157.56 ETC 191.43 CLP-169.92

PLANETOCENTRIC CONIC

C3 14.255 VHL 3.776 CLA 31.05 RAL 56.31 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 7.541 DPA 1.75 RAP 65.18 ECC 1.2346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.70 20 8 18 3797.82 -23.42 154.06 280.32 69.01 21 11 36 3197.8 -26.06 146.16
 103.30 23 39 24 3119.31 -23.41 103.96 280.31 69.00 24 31 24 2519.3 -26.05 96.07
 76.70 20 8 18 3797.82 -23.42 154.06 280.32 69.01 21 11 36 3197.8 -26.06 146.16
 103.30 23 39 24 3119.31 -23.41 103.96 280.31 69.00 24 31 24 2519.3 -26.05 96.07
 110.00 2 17 24 2639.27 -32.65 70.32 283.29 79.25 3 1 23 2039.3 -33.78 61.27
 110.00 22 33 25 3325.86 -14.79 115.19 275.86 58.83 23 28 51 2725.9 -18.81 108.38

DIFFERENTIAL CORRECTIONS

TDE .6437 TRA -.3702 TC3-6.4996 BAU 1.2397
 RDE .2765 RRA .0305 RC3 -.2714 FAU .03343
 FDE .1939 FRA .3477 FC3-2.0305 BSP 15982
 BDE .7006 BRA .3715 BC3 6.5053 FSP -463

MID-COURSE EXECUTION ACCURACY

SGT 5047.0 SGR 470.1 SG3 145.0
 RRT .5818 RRF .5970 RTF .8747
 SGB 5068.8 R23 .1046 R13 .8751
 SG1 5054.4 SG2 381.8 THA 3.12

ORBIT DETERMINATION ACCURACY

ST 1007.4 SR 420.0 SS 228.3
 CRT .9636 CRS -.8611 CST -.7305
 LSA 1100.2 MSA 175.2 SSA 46.5
 EL1 1086.4 EL2 104.1 ALF 22.10

LAUNCH DATE MAR 10 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 26.424 GAL -1.02 AZL 88.68 HCA 246.36 SMA 121.96 ECC .21902 INC 1.3167 V1 29.988
 RP 108.02 LAP -1.21 LOP 55.60 VP 37.000 GAP 10.84 AZP 90.53 TAL 183.65 TAP 70.02 RCA 95.24 APO 148.67 V2 35.083
 RC 179.506 GL 9.34 GP -17.84 ZAL 104.39 ZAP 159.93 ETS 301.73 ZAE 130.78 ETE 195.71 ZAC 159.99 ETC 190.96 CLP-170.66

PLANETOCENTRIC CONIC
 C3 13.995 VHL 3.741 DLA 30.24 RAL 60.73 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 7.654 DPA 3.08 RAP 67.28 ECC 1.2303
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.91 20 41 59 3742.84 -22.94 149.74 284.22 69.73 21 44 22 3142.8 -25.49 141.84
 101.09 23 40 57 3166.19 -22.92 107.28 284.21 69.71 24 33 43 2566.2 -25.48 99.38
 78.91 20 41 59 3742.84 -22.94 149.74 284.22 69.73 21 44 22 3142.8 -25.49 141.84
 101.09 23 40 57 3166.19 -22.92 107.28 284.21 69.71 24 33 43 2566.2 -25.48 99.38
 110.00 2 48 5 2592.17 -33.19 66.75 287.21 81.29 3 31 17 1992.2 -34.03 57.62
 110.00 22 37 58 3364.85 -13.40 117.36 279.33 58.26 23 34 3 2764.9 -17.51 110.65

DIFFERENTIAL CORRECTIONS
 TDE .5955 TRA -.1725 TC3-6.7035 BAU 1.2553 SGT 5106.9 SGR 474.6 SG3 143.1 ST 928.9 SR 422.9 SS 213.4
 RDE .2758 RRA .0406 RC3 -.2728 FAU .03196 RRT .5723 RRF .5778 RTF .8779 CRT .9778 CRS -.7780 CST -.6878
 FDE .1567 FRA .3970 FC3-1.9772 BSP 16219 SGB 5128.9 R23 .0884 R13 .8783 LSA 1028.7 MSA 160.8 SSA 55.6
 BDE .6562 BRA .1772 BC3 6.7091 FSP -459 SG1 5114.2 SG2 388.6 THA 3.06 EL1 1017.4 EL2 81.0 ALF 24.16

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 10 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 26.366 GAL -.52 AZL 88.90 HCA 249.57 SMA 121.62 ECC .22189 INC 1.0952 V1 29.988
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.971 GAP 11.11 AZP 90.38 TAL 181.81 TAP 71.38 RCA 94.63 APO 148.60 V2 35.095
 RC 181.455 GL 7.78 GP -17.11 ZAL 100.77 ZAP 160.90 ETS 300.72 ZAE 131.04 ETE 195.17 ZAC 162.43 ETC 190.45 CLP-171.40

PLANETOCENTRIC CONIC
 C3 13.875 VHL 3.725 DLA 29.38 RAL 65.23 RAD 6567.5 VEL 11.630 PTH 2.04 VHP 7.779 DPA 4.30 RAP 69.43 ECC 1.2283
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.82 21 22 18 3669.52 -22.35 144.06 288.34 70.42 22 23 27 3069.5 -24.82 136.17
 98.18 23 36 34 3235.72 -22.34 112.21 288.34 70.41 24 30 30 2635.7 -24.81 104.33
 100.00 0 41 12 3041.30 -25.83 99.02 289.55 74.40 1 31 53 2441.3 -27.72 90.73
 100.00 23 4 17 3339.18 -18.95 118.44 286.90 66.44 23 59 56 2739.2 -21.97 110.95
 110.00 3 18 37 2548.15 -33.59 63.38 291.31 83.25 4 1 5 1948.2 -34.16 54.18
 110.00 22 43 21 3405.08 -11.95 119.57 283.06 57.73 23 40 6 2805.1 -16.13 112.95

DIFFERENTIAL CORRECTIONS
 TDE .5358 TRA .0356 TC3-6.8417 BAU 1.2701 SGT 5163.5 SGR 478.5 SG3 141.0 ST 838.4 SR 424.3 SS 202.4
 RDE .2752 RRA .0519 RC3 -.2729 FAU .03052 RRT .5629 RRF .5602 RTF .8814 CRT .9849 CRS -.6559 CST -.6375
 FDE .1183 FRA .4459 FC3-1.9041 BSP 16480 SGB 5185.6 R23 .0739 R13 .8817 LSA 946.6 MSA 154.1 SSA 64.4
 BDE .6023 BRA .0629 BC3 6.8471 FSP -459 SG1 5170.5 SG2 395.0 THA 3.00 EL1 937.4 EL2 65.7 ALF 26.64

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 10 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 26.310 GAL .01 AZL 89.12 HCA 252.78 SMA 121.29 ECC .22505 INC .8827 V1 29.988
 RP 107.94 LAP -.84 LOP 62.03 VP 36.943 GAP 11.39 AZP 90.26 TAL 179.97 TAP 72.75 RCA 93.99 APO 148.58 V2 35.108
 RC 183.384 GL 6.24 GP -16.45 ZAL 96.99 ZAP 161.81 ETS 299.52 ZAE 131.29 ETE 194.67 ZAC 164.86 ETC 189.87 CLP-172.14

PLANETOCENTRIC CONIC
 C3 13.900 VHL 3.728 DLA 28.45 RAL 69.79 RAD 6567.5 VEL 11.631 PTH 2.04 VHP 7.915 DPA 5.42 RAP 71.64 ECC 1.2288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 87.18 22 24 2 3529.46 -21.66 133.50 292.67 71.10 23 22 52 2929.5 -24.04 125.63
 92.82 23 11 13 3376.57 -21.65 122.31 292.67 71.08 24 7 30 2776.6 -24.03 114.44
 100.00 1 30 52 2939.36 -27.50 91.91 294.46 77.79 2 19 51 2339.4 -28.90 83.39
 100.00 22 51 0 3441.90 -16.04 124.68 290.25 64.43 23 48 22 2841.9 -19.35 117.45
 110.00 3 49 7 2506.57 -33.88 60.17 295.57 85.13 4 30 54 1906.6 -34.18 50.94
 110.00 22 49 14 3447.46 -10.40 121.87 287.02 57.25 23 46 42 2847.5 -14.65 115.34

DIFFERENTIAL CORRECTIONS
 TDE .5324 TRA .2862 TC3-6.6482 BAU 1.2361 SGT 5049.1 SGR 488.8 SG3 130.5 ST 845.1 SR 443.5 SS 241.8
 RDE .2876 RRA .0695 RC3 -.2276 FAU .02549 RRT .5121 RRF .5549 RTF .8532 CRT .9815 CRS -.6892 CST -.7617
 FDE .1442 FRA .5211 FC3-1.5876 BSP 15459 SGB 5072.7 R23 .1338 R13 .8538 LSA 968.9 MSA 162.9 SSA 62.8
 BDE .6051 BRA .2945 BC3 6.6521 FSP -349 SG1 5055.4 SG2 419.3 THA 2.86 EL1 951.4 EL2 75.4 ALF 27.44

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 10 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 26.254 GAL .55 AZL 89.32 HCA 256.00 SMA 120.96 ECC .22853 INC .6772 V1 29.988
 RP 107.90 LAP -.66 LOP 65.25 VP 36.915 GAP 11.69 AZP 90.16 TAL 178.13 TAP 74.13 RCA 93.32 APO 148.60 V2 35.120
 RC 185.291 GL 4.74 GP -15.86 ZAL 93.13 ZAP 162.65 ETS 298.13 ZAE 131.52 ETE 194.22 ZAC 167.30 ETC 189.18 CLP-172.87

PLANETOCENTRIC CONIC
 C3 14.080 VHL 3.752 DLA 27.44 RAL 74.36 RAD 6567.6 VEL 11.639 PTH 2.04 VHP 8.063 DPA 6.45 RAP 73.89 ECC 1.2317
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 11 42 3253.96 -25.31 114.50 298.53 76.86 1 5 56 2654.0 -26.87 106.18
 90.00 22 3 54 3657.74 -16.52 140.77 295.43 66.67 23 4 51 3057.7 -19.54 133.40
 100.00 2 12 33 2864.42 -28.46 86.55 299.23 80.45 3 0 17 2264.4 -29.49 77.89
 100.00 22 45 45 3522.51 -13.61 129.44 294.02 63.13 23 44 27 2922.5 -17.11 122.39
 110.00 4 19 30 2467.13 -34.06 57.10 299.96 86.94 5 0 37 1867.1 -34.11 47.86
 110.00 22 55 17 3492.57 -8.73 124.30 291.14 56.82 23 53 29 2892.6 -13.04 117.85

DIFFERENTIAL CORRECTIONS
 TDE .3911 TRA .4902 TC3-6.8567 BAU 1.2916 SGT 5248.5 SGR 485.0 SG3 135.9 ST 666.7 SR 424.4 SS 204.3
 RDE .2767 RRA .0784 RC3 -.2618 FAU .02729 RRT .5410 RRF .5304 RTF .8863 CRT .9310 CRS -.3380 CST -.6146
 FDE .0472 FRA .5458 FC3-1.6780 BSP 16683 SGB 5270.8 R23 .0571 R13 .8866 LSA 787.4 MSA 206.8 SSA 59.5
 BDE .4791 BRA .4964 BC3 6.8617 FSP -434 SG1 5255.1 SG2 407.4 THA 2.88 EL1 779.1 EL2 132.6 ALF 31.68

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 10 1969

FLIGHT TIME 174.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 514.975

RL 148.58 LAL .00 LOL 169.25 VL 26.199 GAL 1.12 AZL 89.52 MCA 259.22 SMA 120.65 ECC .23233 INC .4774 V1 29.988
 RP 107.87 LAP -.47 LOP 68.46 VP 36.888 GAP 12.00 AZP 90.09 TAL 176.30 TAP 75.52 RCA 92.62 APO 148.68 V2 35.132
 RC 187.175 GL 3.30 GP -15.31 ZAL 89.20 ZAP 163.43 ETS 296.53 ZAE 131.73 ETE 193.81 ZAC 169.74 ETC 188.25 CLP-173.60

PLANETOCENTRIC CONIC

C3 14.427 VHL 3.798 CLA 26.36 RAL 78.90 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 8.223 DPA 7.39 RAP 76.18 ECC 1.2374
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 14 3158.24 -26.62 107.80 303.59 79.97 1 52 52 2558.2 -27.73 99.31
 90.00 21 51 36 3764.21 -13.54 147.17 299.19 64.89 22 54 20 3164.2 -16.82 140.03
 100.00 2 50 47 2801.82 -29.08 82.00 304.01 82.77 3 37 29 2201.8 -29.78 73.26
 100.00 22 43 44 3595.86 -11.32 133.67 298.06 62.15 23 43 40 2995.9 -14.95 126.77
 110.00 4 49 38 2429.98 -34.16 54.21 304.46 88.65 5 30 8 1830.0 -33.97 44.97
 110.00 23 1 23 3540.46 -6.94 126.85 295.42 56.44 24 0 23 2940.5 -11.30 120.47

DIFFERENTIAL CORRECTIONS

TDE .2954 TRA .7302 TC3-6.7513 BAU 1.3031
 RDE .2773 RRA .0924 RC3 -.2541 FAU .02585
 FDE .0073 FRA .5918 FC3-1.5515 BSP 16908
 BDE .4052 BRA .7360 BC3 6.7561 FSP -432

MID-COURSE EXECUTION ACCURACY

SGT 5292.7 SGR 486.2 SG3 133.3
 RRT .5315 RRF .5159 RTF .8905
 SGB 5315.0 R23 .0468 R13 .8907
 SG1 5299.0 SG2 411.4 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 598.6 SR 420.9 SS 214.0
 CRT .8117 CRS -.1478 CST -.6687
 LSA 710.7 MSA 271.3 SSA 50.4
 EL1 701.0 EL2 209.9 ALF 33.06

LAUNCH DATE MAR 10 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 520.514

RL 148.58 LAL .00 LOL 169.25 VL 26.145 GAL 1.71 AZL 89.72 MCA 262.44 SMA 120.34 ECC .23650 INC .2813 V1 29.988
 RP 107.83 LAP -.28 LOP 71.68 VP 36.861 GAP 12.33 AZP 90.04 TAL 174.47 TAP 76.91 RCA 91.88 APO 148.80 V2 35.144
 RC 189.037 GL 1.90 GP -14.82 ZAL 85.25 ZAP 164.15 ETS 294.73 ZAE 131.93 ETE 193.44 ZAC 172.18 ETC 186.87 CLP-174.33

PLANETOCENTRIC CONIC

C3 14.955 VHL 3.867 CLA 25.21 RAL 83.37 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 8.397 DPA 8.24 RAP 78.51 ECC 1.2461
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 41 50 3085.66 -27.38 102.62 308.54 82.46 2 33 16 2485.7 -28.14 94.04
 90.00 21 45 41 3852.77 -10.93 152.36 303.27 63.71 22 49 53 3252.8 -14.37 145.38
 100.00 3 26 46 2747.38 -29.48 78.00 308.80 84.83 4 12 33 2147.4 -29.89 69.22
 100.00 22 43 26 3666.29 -9.05 137.67 302.27 61.39 23 44 32 3066.3 -12.80 130.89
 110.00 5 19 17 2395.34 -34.18 51.50 309.04 90.25 5 59 12 1795.3 -33.77 42.28
 110.00 23 7 24 3591.09 -5.02 129.52 299.82 56.14 24 7 15 2991.1 -9.44 123.21

DIFFERENTIAL CORRECTIONS

TDE .1911 TRA .9860 TC3-6.5510 BAU 1.3106
 RDE .2788 RRA .1075 RC3 -.2422 FAU .02431
 FDE -.0306 FRA .6394 FC3-1.4073 BSP 16988
 BDE .3380 BRA .9918 BC3 6.5554 FSP -423

MID-COURSE EXECUTION ACCURACY

SGT 5325.2 SGR 486.6 SG3 130.6
 RRT .5212 RRF .5026 RTF .8939
 SGB 5347.4 R23 .0397 R13 .8940
 SG1 5331.3 SG2 414.8 THA 2.74

ORBIT DETERMINATION ACCURACY

ST 581.3 SR 416.5 SS 231.5
 CRT .5924 CRS .0149 CST -.7778
 LSA 665.0 MSA 347.8 SSA 42.1
 EL1 648.8 EL2 300.6 ALF 30.09

LAUNCH DATE MAR 10 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 526.019

RL 148.58 LAL .00 LOL 169.25 VL 26.092 GAL 2.32 AZL 89.91 MCA 265.66 SMA 120.03 ECC .24106 INC .0876 V1 29.988
 RP 107.79 LAP -.09 LOP 74.91 VP 36.834 GAP 12.68 AZP 90.01 TAL 172.66 TAP 78.31 RCA 91.10 APO 148.97 V2 35.155
 RC 190.875 GL .58 GP -14.37 ZAL 81.32 ZAP 164.82 ETS 292.70 ZAE 132.11 ETE 193.09 ZAC 174.62 ETC 184.38 CLP-175.06

PLANETOCENTRIC CONIC

C3 15.681 VHL 3.960 CLA 24.01 RAL 87.74 RAD 6567.6 VEL 11.708 PTH 2.06 VHP 8.585 DPA 9.01 RAP 80.88 ECC 1.2581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 19 41 3025.65 -27.84 98.29 313.45 84.58 3 10 7 2425.7 -28.30 89.66
 90.00 21 42 38 3934.13 -8.44 157.04 307.52 62.87 22 48 12 3334.1 -12.01 150.18
 100.00 4 0 51 2699.51 -29.72 74.46 313.61 86.68 4 45 50 2099.5 -29.87 65.66
 100.00 22 44 10 3735.50 -6.77 141.54 306.62 60.81 23 46 25 3135.5 -10.61 134.86
 110.00 5 48 14 2363.56 -34.15 49.02 313.68 91.72 6 27 37 1763.6 -33.53 39.83
 110.00 23 13 16 3644.21 -3.00 132.30 304.29 55.93 24 14 1 3044.2 -7.45 126.04

DIFFERENTIAL CORRECTIONS

TDE .0709 TRA 1.2502 TC3-6.2873 BAU 1.3190
 RDE .2807 RRA .1230 RC3 -.2290 FAU .02290
 FDE -.0698 FRA .6854 FC3-1.2642 BSP 17151
 BDE .2896 BRA 1.2563 BC3 6.2915 FSP -417

MID-COURSE EXECUTION ACCURACY

SGT 5359.8 SGR 485.6 SG3 127.9
 RRT .5112 RRF .4897 RTF .8981
 SGB 5381.8 R23 .0324 R13 .8982
 SG1 5365.6 SG2 416.9 THA 2.67

ORBIT DETERMINATION ACCURACY

ST 621.1 SR 410.4 SS 253.9
 CRT .3029 CRS .1552 CST -.8825
 LSA 673.4 MSA 404.9 SSA 35.5
 EL1 640.6 EL2 379.2 ALF 17.70

LAUNCH DATE MAR 10 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 531.485

RL 148.58 LAL .00 LOL 169.25 VL 26.039 GAL 2.96 AZL 90.10 MCA 268.88 SMA 119.74 ECC .24605 INC .1021 V1 29.988
 RP 107.76 LAP .10 LOP 78.13 VP 36.807 GAP 13.06 AZP 90.00 TAL 170.85 TAP 79.73 RCA 90.28 APO 149.20 V2 35.166
 RC 192.690 GL -.65 GP -13.96 ZAL 77.44 ZAP 165.43 ETS 290.45 ZAE 132.28 ETE 192.78 ZAC 177.03 ETC 178.05 CLP-175.79

PLANETOCENTRIC CONIC

C3 16.629 VHL 4.078 CLA 22.78 RAL 91.96 RAD 6567.7 VEL 11.748 PTH 2.07 VHP 8.788 DPA 9.70 RAP 83.27 ECC 1.2737
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 47 2974.73 -28.11 94.59 318.33 86.42 3 44 21 2374.7 -28.31 85.93
 90.00 21 41 13 4011.78 -6.00 161.45 311.90 62.27 22 48 5 3411.8 -9.67 154.68
 100.00 4 33 9 2657.53 -29.85 71.35 318.42 88.31 5 17 27 2057.5 -29.76 62.54
 100.00 22 45 32 3804.21 -4.47 145.35 311.06 60.41 23 48 56 3204.2 -8.38 138.74
 110.00 6 16 15 2335.02 -34.06 46.79 318.36 93.04 6 55 10 1735.0 -33.27 37.64
 110.00 23 18 56 3699.49 -.89 135.19 308.83 55.83 24 20 35 3099.5 -5.37 128.96

DIFFERENTIAL CORRECTIONS

TDE -.0609 TRA 1.5277 TC3-5.9586 BAU 1.3256
 RDE .2834 RRA .1389 RC3 -.2133 FAU .02150
 FDE -.1083 FRA .7316 FC3-1.1192 BSP 17298
 BDE .2899 BRA 1.5340 BC3 5.9625 FSP -411

MID-COURSE EXECUTION ACCURACY

SGT 5389.2 SGR 483.4 SG3 125.2
 RRT .5007 RRF .4772 RTF .9022
 SGB 5410.9 R23 .0263 R13 .9022
 SG1 5394.7 SG2 418.0 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 718.5 SR 403.3 SS 279.8
 CRT .0382 CRS .2640 CST -.9464
 LSA 766.4 MSA 410.9 SSA 30.5
 EL1 718.8 EL2 402.8 ALF 1.79

LAUNCH DATE MAR 10 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 536.907

RL 148.58 LAL .00 LOL 169.25 VL 25.988 GAL 3.63 AZL 90.29 HCA 272.11 SMA 119.45 ECC .25150 INC .2936 V1 29.988
 RP 107.73 LAP .29 LOP 81.36 VP 36.781 GAP 13.46 AZP 90.01 TAL 169.05 TAP 81.16 RCA 89.41 APO 149.49 V2 35.177
 RC 194.480 GL -1.81 GP -13.59 ZAL 73.67 ZAP 165.98 ETS 287.97 ZAE 132.43 ETE 192.48 ZAC 179.17 ETC 133.40 CLP-176.52

PLANETOCENTRIC CONIC

C3 17.825 VHL 4.222 DLA 21.52 RAL 96.01 RAD 6567.7 VEL 11.799 PTH 2.09 VHP 9.008 DPA 10.31 RAP 85.69 ECC 1.2933
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 27 29 2931.39 -28.25 91.43 323.18 88.00 4 16 21 2331.4 -28.23 82.76
 90.00 21 40 50 4087.19 -3.60 165.68 316.35 61.89 22 48 57 3487.2 -7.33 158.99
 100.00 5 3 42 2621.15 -29.89 68.64 323.22 89.74 5 47 23 2021.1 -29.61 59.85
 100.00 22 47 18 3872.66 -2.16 149.12 315.56 60.18 23 51 51 3272.7 -6.11 142.56
 110.00 6 43 8 2310.06 -33.96 44.85 323.06 94.18 7 21 38 1710.1 -33.01 35.74
 110.00 23 24 21 3756.52 1.29 138.16 313.40 55.84 24 26 58 3156.5 -3.20 131.96

DIFFERENTIAL CORRECTIONS

TDE -.2040 TRA 1.8193 TC3-5.5790 BAU 1.3303
 RDE .2869 RRA .1553 RC3 -.1959 FAU .02012
 FDE -.1467 FRA .7782 FC3 -.9773 BSP 17427
 BDE .3520 BRA 1.8259 BC3 5.5824 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 5414.0 SGR 479.9 SG3 122.5
 RRT .4898 RRF .4648 RTF .9063
 SGB 5435.3 R23 .0209 R13 .9064
 SG1 5419.2 SG2 418.0 THA 2.50

ORBIT DETERMINATION ACCURACY

ST 854.7 SR 395.3 SS 307.6
 CRT -.1568 CRS .3471 CST -.9761
 LSA 909.6 MSA 391.6 SSA 26.6
 EL1 857.5 EL2 389.1 ALF 174.77

LAUNCH DATE MAR 10 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 542.279

RL 148.58 LAL .00 LOL 169.25 VL 25.937 GAL 4.33 AZL 90.49 HCA 275.34 SMA 119.17 ECC .25747 INC .4857 V1 29.988
 RP 107.70 LAP .48 LOP 84.58 VP 36.754 GAP 13.88 AZP 90.04 TAL 167.27 TAP 82.61 RCA 88.49 APO 149.85 V2 35.187
 RC 196.245 GL -2.86 GP -13.25 ZAL 70.01 ZAP 166.47 ETS 285.24 ZAE 132.58 ETE 192.21 ZAC 177.87 ETC 30.91 CLP-177.25

PLANETOCENTRIC CONIC

C3 19.299 VHL 4.393 DLA 20.26 RAL 99.87 RAD 6567.8 VEL 11.861 PTH 2.10 VHP 9.247 DPA 10.85 RAP 88.12 ECC 1.3176
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 58 0 2894.86 -28.31 88.76 328.01 89.34 4 46 15 2294.9 -28.10 80.10
 90.00 21 41 7 4161.01 -1.22 169.81 320.85 61.71 22 50 28 3561.0 -4.99 163.16
 100.00 5 32 28 2590.23 -29.88 66.34 328.01 90.95 6 15 38 1990.2 -29.43 57.57
 100.00 22 49 19 3940.87 .15 152.86 320.09 60.11 23 55 0 3340.9 -3.83 146.34
 110.00 7 8 46 2288.97 -33.84 43.22 327.76 95.14 7 46 55 1689.0 -32.76 34.15
 110.00 23 29 31 3814.89 3.52 141.21 317.99 55.98 24 33 6 3214.9 -.97 135.00

DIFFERENTIAL CORRECTIONS

TDE -.3534 TRA 2.1292 TC3-5.1554 BAU 1.3309
 RDE .2916 RRA .1721 RC3 -.1767 FAU .01870
 FDE -.1826 FRA .8270 FC3 -.8391 BSP 17451
 BDE .4582 BRA 2.1362 BC3 5.1584 FSP -395

MID-COURSE EXECUTION ACCURACY

SGT 5430.7 SGR 475.4 SG3 119.8
 RRT .4788 RRF .4536 RTF .9101
 SGB 5451.5 R23 .0173 R13 .9102
 SG1 5435.5 SG2 417.0 THA 2.41

ORBIT DETERMINATION ACCURACY

ST 1009.7 SR 387.1 SS 335.3
 CRT -.2838 CRS .4044 CST -.9888
 LSA 1069.9 MSA 369.6 SSA 23.6
 EL1 1016.6 EL2 368.7 ALF 172.84

LAUNCH DATE MAR 10 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 547.591

RL 148.58 LAL .00 LOL 169.25 VL 25.887 GAL 5.07 AZL 90.68 HCA 278.57 SMA 118.89 ECC .26400 INC .6800 V1 29.988
 RP 107.67 LAP .67 LOP 87.81 VP 36.728 GAP 14.34 AZP 90.10 TAL 165.51 TAP 84.07 RCA 87.50 APO 150.28 V2 35.196
 RC 197.986 GL -3.82 GP -12.94 ZAL 66.50 ZAP 166.91 ETS 282.28 ZAE 132.70 ETE 191.96 ZAC 175.49 ETC 20.49 CLP-177.99

PLANETOCENTRIC CONIC

C3 21.090 VHL 4.592 DLA 19.02 RAL 103.52 RAD 6567.9 VEL 11.936 PTH 2.12 VHP 9.506 DPA 11.32 RAP 90.57 ECC 1.3471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 26 25 2864.66 -28.31 86.55 332.80 90.45 5 14 10 2264.7 -27.95 77.90
 90.00 21 41 50 4233.53 1.12 173.85 325.38 61.70 22 52 24 3633.5 -2.67 167.22
 100.00 5 59 27 2564.68 -29.83 64.45 332.76 91.94 6 42 11 1964.7 -29.25 55.69
 100.00 22 51 30 4008.74 2.45 156.59 324.65 60.20 23 58 19 3408.7 -1.53 150.07
 110.00 7 33 0 2271.97 -33.73 41.90 332.45 95.91 8 10 52 1672.0 -32.54 32.87
 110.00 23 34 26 3874.22 5.77 144.33 322.58 56.25 24 39 0 3274.2 1.30 138.10

DIFFERENTIAL CORRECTIONS

TDE -.5170 TRA 2.4503 TC3-4.7203 BAU 1.3317
 RDE .2970 RRA .1885 RC3 -.1577 FAU .01740
 FDE -.2198 FRA .8751 FC3 -.7143 BSP 17573
 BDE .5963 BRA 2.4575 BC3 4.7229 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 5447.0 SGR 469.2 SG3 117.2
 RRT .4669 RRF .4411 RTF .9145
 SGB 5467.1 R23 .0132 R13 .9146
 SG1 5451.4 SG2 414.6 THA 2.32

ORBIT DETERMINATION ACCURACY

ST 1172.2 SR 378.0 SS 363.2
 CRT -.3748 CRS .4526 CST -.9944
 LSA 1235.8 MSA 348.1 SSA 21.3
 EL1 1181.6 EL2 347.7 ALF 172.45

LAUNCH DATE MAR 10 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 552.835

RL 148.58 LAL .00 LOL 169.25 VL 25.838 GAL 5.85 AZL 90.88 HCA 281.80 SMA 118.62 ECC .27115 INC .8777 V1 29.988
 RP 107.64 LAP .86 LOP 91.05 VP 36.702 GAP 14.83 AZP 90.18 TAL 163.76 TAP 85.56 RCA 86.46 APO 150.79 V2 35.205
 RC 199.701 GL -4.68 GP -12.65 ZAL 63.16 ZAP 167.29 ETS 279.07 ZAE 132.82 ETE 191.72 ZAC 173.07 ETC 17.26 CLP-178.74

PLANETOCENTRIC CONIC

C3 23.245 VHL 4.821 DLA 17.81 RAL 106.96 RAD 6567.9 VEL 12.026 PTH 2.15 VHP 9.787 DPA 11.71 RAP 93.04 ECC 1.3826
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 52 50 2840.45 -28.29 84.78 337.55 91.33 5 40 11 2240.4 -27.80 76.15
 90.00 21 42 53 4304.86 3.42 177.83 329.93 61.87 22 54 38 3704.9 -.37 171.20
 100.00 6 24 39 2544.39 -29.78 62.94 337.49 92.73 7 7 3 1944.4 -29.08 54.21
 100.00 22 53 46 4076.14 4.72 160.30 329.21 60.45 24 1 42 3476.1 .75 153.76
 110.00 7 55 49 2259.15 -33.64 40.91 337.12 96.49 8 33 28 1659.2 -32.37 31.91
 110.00 23 39 5 3934.15 8.03 147.50 327.17 56.66 24 44 39 3334.1 3.58 141.23

DIFFERENTIAL CORRECTIONS

TDE -.6892 TRA 2.7891 TC3-4.2758 BAU 1.3295
 RDE .3036 RRA .2048 RC3 -.1385 FAU .01612
 FDE -.2559 FRA .9247 FC3 -.6004 BSP 17660
 BDE .7531 BRA 2.7966 BC3 4.2780 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 5458.0 SGR 461.9 SG3 114.6
 RRT .4542 RRF .4287 RTF .9190
 SGB 5477.5 R23 .0099 R13 .9191
 SG1 5462.0 SG2 411.2 THA 2.21

ORBIT DETERMINATION ACCURACY

ST 1333.0 SR 368.8 SS 390.0
 CRT -.4371 CRS .4884 CST -.9969
 LSA 1398.6 MSA 329.3 SSA 19.4
 EL1 1343.4 EL2 329.2 ALF 172.66

LAUNCH DATE MAR 10 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 25.790 GAL 6.68 AZL 91.08 MCA 285.03 SMA 118.36 ECC .27899 INC 1.0801 VI 29.988
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.676 GAP 15.36 AZP 90.28 TAL 162.05 TAP 87.08 RCA 85.34 APO 151.38 V2 35.213
 RC 201.391 GL -5.45 GP -12.39 ZAL 60.00 ZAP 167.60 ETS 275.63 ZAE 132.91 ETE 191.49 ZAC 170.65 ETC 15.67 CLP -179.50

PLANETOCENTRIC CONIC
 C3 25.819 VHL 5.081 DLA 16.64 RAL 110.19 RAD 6568.0 VEL 12.132 PTH 2.17 VHP 10.094 DPA 12.04 RAP 95.50 ECC 1.4249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 17 19 2821.91 -28.25 83.42 342.26 92.01 6 4 21 2221.9 -27.67 74.81
 90.00 21 44 8 4374.98 5.66 181.77 334.47 62.21 22 57 3 3775.0 1.89 175.11
 100.00 6 48 5 2529.21 -29.72 61.82 342.18 93.32 7 30 14 1929.2 -28.95 53.10
 100.00 22 56 3 4142.91 6.95 164.00 333.76 60.85 24 5 6 3542.9 3.01 157.43
 110.00 8 17 9 2250.55 -33.57 40.25 341.77 96.88 8 54 39 1650.5 -32.25 31.26
 110.00 23 43 29 3994.34 10.26 150.73 331.75 57.21 24 50 3 3394.3 5.87 144.39

DIFFERENTIAL CORRECTIONS
 TDE -.8704 TRA 3.1461 TC3-3.8349 BAU 1.3243
 RDE .3112 RRA .2206 RC3 -.1198 FAU .01487
 FDE -.2914 FRA .9760 FC3 -.4987 BSP 17739
 BDE .9243 BRA 3.1538 BC3 3.8367 FSP -375

MID-COURSE EXECUTION ACCURACY
 SGT 5464.5 SGR 453.2 SG3 112.1
 RRT .4407 RRF .4159 RTF .9237
 SGB 5483.2 R23 .0073 R13 .9237
 SG1 5468.1 SG2 406.6 THA 2.10

ORBIT DETERMINATION ACCURACY
 ST 1486.8 SR 359.5 SS 415.5
 CRT -.4817 CRS .5163 CST -.9982
 LSA 1553.8 MSA 312.9 SSA 17.8
 EL1 1497.4 EL2 312.9 ALF 173.05

LAUNCH DATE MAR 10 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 25.743 GAL 7.55 AZL 91.29 MCA 288.27 SMA 118.10 ECC .28760 INC 1.2890 VI 29.988
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.651 GAP 15.94 AZP 90.40 TAL 160.36 TAP 88.63 RCA 84.14 APO 152.07 V2 35.221
 RC 203.056 GL -6.13 GP -12.15 ZAL 57.02 ZAP 167.85 ETS 271.97 ZAE 132.99 ETE 191.28 ZAC 168.24 ETC 14.72 CLP 179.73

PLANETOCENTRIC CONIC
 C3 28.878 VHL 5.374 DLA 15.52 RAL 113.20 RAD 6568.2 VEL 12.258 PTH 2.21 VHP 10.429 DPA 12.30 RAP 97.97 ECC 1.4753
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 39 57 2808.74 -28.22 82.46 346.91 92.49 6 26 46 2208.7 -27.57 73.86
 90.00 21 45 31 4443.85 7.83 185.67 339.00 62.70 22 59 35 3843.9 4.11 178.96
 100.00 7 9 49 2518.94 -29.68 61.05 346.82 93.72 7 51 48 1918.9 -28.85 52.35
 100.00 22 58 20 4208.89 9.12 167.70 338.31 61.41 24 8 29 3608.9 5.24 161.07
 110.00 8 37 1 2246.09 -33.53 39.91 346.40 97.08 9 14 27 1646.1 -32.19 30.93
 110.00 23 47 37 4054.50 12.46 154.00 336.32 57.91 24 55 12 3454.5 8.13 147.58

DIFFERENTIAL CORRECTIONS
 TDE -1.0575 TRA 3.5267 TC3-3.4011 BAU 1.3137
 RDE .3203 RRA .2359 RC3 -.1017 FAU .01360
 FDE -.3254 FRA 1.0305 FC3 -.4076 BSP 17715
 BDE 1.1050 BRA 3.5345 BC3 3.4026 FSP -366

MID-COURSE EXECUTION ACCURACY
 SGT 5464.6 SGR 443.5 SG3 109.7
 RRT .4263 RRF .4031 RTF .9284
 SGB 5482.6 R23 .0058 R13 .9284
 SG1 5467.9 SG2 401.0 THA 1.99

ORBIT DETERMINATION ACCURACY
 ST 1629.1 SR 350.4 SS 439.2
 CRT -.5134 CRS .5367 CST -.9989
 LSA 1697.1 MSA 298.8 SSA 16.5
 EL1 1639.3 EL2 298.8 ALF 173.48

LAUNCH DATE MAR 10 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 25.697 GAL 8.48 AZL 91.51 MCA 291.50 SMA 117.85 ECC .29708 INC 1.5058 VI 29.988
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.625 GAP 16.56 AZP 90.55 TAL 158.71 TAP 90.21 RCA 82.84 APO 152.87 V2 35.228
 RC 204.697 GL -6.73 GP -11.93 ZAL 54.23 ZAP 168.03 ETS 268.10 ZAE 133.05 ETE 191.08 ZAC 165.84 ETC 14.08 CLP 178.95

PLANETOCENTRIC CONIC
 C3 32.507 VHL 5.702 DLA 14.46 RAL 116.00 RAD 6568.3 VEL 12.405 PTH 2.24 VHP 10.795 DPA 12.50 RAP 100.43 ECC 1.5350
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 0 49 2800.60 -28.19 81.87 351.52 92.79 6 47 30 2200.6 -27.51 73.27
 90.00 21 47 0 4511.41 9.91 189.54 343.52 63.34 23 2 11 3911.4 6.26 182.77
 100.00 7 29 54 2513.32 -29.66 60.64 351.42 93.94 8 11 48 1913.3 -28.79 51.94
 100.00 23 0 36 4273.93 11.22 171.39 342.84 62.11 24 11 50 3673.9 7.40 164.68
 110.00 8 55 27 2245.63 -33.53 39.87 350.98 97.10 9 32 53 1645.6 -32.18 30.90
 110.00 23 51 32 4114.39 14.60 157.32 340.87 58.74 25 0 6 3514.4 10.35 150.79

DIFFERENTIAL CORRECTIONS
 TDE -1.2575 TRA 3.9235 TC3-2.9934 BAU 1.3014
 RDE .3304 RRA .2499 RC3 -.0851 FAU .01241
 FDE -.3604 FRA 1.0863 FC3 -.3305 BSP 17789
 BDE 1.3002 BRA 3.9315 BC3 2.9946 FSP -360

MID-COURSE EXECUTION ACCURACY
 SGT 5461.5 SGR 432.4 SG3 107.4
 RRT .4099 RRF .3883 RTF .9334
 SGB 5478.6 R23 .0043 R13 .9334
 SG1 5464.4 SG2 394.2 THA 1.87

ORBIT DETERMINATION ACCURACY
 ST 1760.6 SR 341.0 SS 462.4
 CRT -.5400 CRS .5556 CST -.9992
 LSA 1829.8 MSA 285.4 SSA 15.4
 EL1 1770.5 EL2 285.4 ALF 173.87

LAUNCH DATE MAR 10 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC
 RL 148.58 LAL .00 LOL 169.25 VL 25.652 GAL 9.48 AZL 91.73 MCA 294.74 SMA 117.61 ECC .30753 INC 1.7326 VI 29.988
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.600 GAP 17.25 AZP 90.73 TAL 157.10 TAP 91.84 RCA 81.44 APO 153.78 V2 35.235
 RC 206.313 GL -7.24 GP -11.73 ZAL 51.63 ZAP 168.13 ETS 264.06 ZAE 133.08 ETE 190.88 ZAC 163.46 ETC 13.63 CLP 178.15

PLANETOCENTRIC CONIC
 C3 36.807 VHL 6.067 DLA 13.46 RAL 118.59 RAD 6568.4 VEL 12.577 PTH 2.28 VHP 11.199 DPA 12.64 RAP 102.88 ECC 1.6057
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 20 1 2797.16 -28.18 81.62 356.06 92.91 7 6 38 2197.2 -27.48 73.02
 90.00 21 48 31 4577.56 11.91 193.37 348.01 64.12 23 4 48 3977.6 8.33 186.52
 100.00 7 48 24 2512.09 -29.65 60.55 355.96 93.99 8 30 16 1912.1 -28.78 51.85
 100.00 23 2 48 4337.87 13.23 175.08 347.34 62.95 24 15 6 3737.9 9.50 168.27
 110.00 9 12 30 2248.98 -33.55 40.13 355.52 96.95 9 49 59 1649.0 -32.23 31.15
 110.00 23 55 12 4173.74 16.67 160.68 345.39 59.72 25 4 46 3573.7 12.52 154.02

DIFFERENTIAL CORRECTIONS
 TDE -1.4669 TRA 4.3470 TC3-2.6100 BAU 1.2848
 RDE .3418 RRA .2626 RC3 -.0699 FAU .01124
 FDE -.3952 FRA 1.1453 FC3 -.2644 BSP 17830
 BDE 1.5062 BRA 4.3550 BC3 2.6109 FSP -353

MID-COURSE EXECUTION ACCURACY
 SGT 5456.1 SGR 420.0 SG3 105.1
 RRT .3917 RRF .3725 RTF .9385
 SGB 5472.2 R23 .0033 R13 .9386
 SG1 5458.5 SG2 386.3 THA 1.74

ORBIT DETERMINATION ACCURACY
 ST 1879.4 SR 331.8 SS 484.5
 CRT -.5615 CRS .5715 CST -.9994
 LSA 1949.9 MSA 273.2 SSA 14.5
 EL1 1888.8 EL2 273.2 ALF 174.22

LAUNCH DATE MAR 10 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 577.529
 RL 148.58 LAL .00 LOL 169.25 VL 25.608 GAL 10.54 AZL 91.97 MCA 297.97 SMA 117.38 ECC .31907 INC 1.9716 V1 29.988
 RP 107.53 LAP 1.74 LOP 107.24 VP 36.574 GAP 18.00 AZP 90.92 TAL 155.55 TAP 93.52 RCA 79.93 APO 154.83 V2 35.240
 RC 207.904 GL -7.69 GP -11.54 ZAL 49.22 ZAP 168.16 ETS 259.87 ZAE 133.08 ETE 190.68 ZAC 161.10 ETC 13.28 CLP 177.32

PLANETOCENTRIC CONIC

C3 41.903 VHL 6.473 DLA 12.53 RAL 120.99 RAD 6568.6 VEL 12.778 PTH 2.32 VHP 11.643 DPA 12.72 RAP 105.32 ECC 1.6896
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 37 36 2798.05 -28.18 81.68 .54 92.88 7 24 14 2198.0 -27.48 73.09
 90.00 21 50 3 4642.18 13.80 197.18 352.48 65.03 23 7 25 4042.2 10.32 190.23
 100.00 8 5 23 2514.92 -29.66 60.76 .44 93.88 8 47 18 1914.9 -28.81 52.06
 100.00 23 4 57 4400.55 15.14 178.75 351.82 63.91 24 18 17 3800.5 11.51 171.84
 110.00 9 28 11 2255.88 -33.61 40.66 .01 96.64 10 5 46 1655.9 -32.33 31.66
 110.00 0 2 35 4232.35 18.65 164.07 349.89 60.82 1 13 8 3632.3 14.62 157.27

DIFFERENTIAL CORRECTIONS

TOE-1.6861 TRA 4.7969 TC3-2.2519 BAU 1.2619 SGT 5444.7 SGR 406.6 SG3 102.9 ST 1984.3 SR 322.6 SS 506.0
 RDE .3546 RRA .2735 RC3 -.0561 FAU .01007 RRT .3713 RRF .3547 RTF .9438 CRT -.5799 CRS .5858 CST -.9996
 FDE -.4301 FRA 1.2079 FC3 -.2081 BSP 17853 SGB 5459.8 R23 .0028 R13 .9438 LSA 2056.4 MSA 261.6 SSA 13.6
 BOE 1.7230 BRA 4.8046 BC3 2.2526 FSP -.346 SG1 5446.8 SG2 377.3 THA 1.60 EL1 1993.3 EL2 261.6 ALF 174.52

LAUNCH DATE MAR 10 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 582.013
 RL 148.58 LAL .00 LOL 169.25 VL 25.564 GAL 11.69 AZL 92.23 MCA 301.21 SMA 117.15 ECC .33185 INC 2.2255 V1 29.988
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.549 GAP 18.82 AZP 91.15 TAL 154.05 TAP 95.26 RCA 78.27 APO 156.02 V2 35.246
 RC 209.470 GL -8.07 GP -11.37 ZAL 46.99 ZAP 168.10 ETS 255.57 ZAE 133.05 ETE 190.49 ZAC 158.76 ETC 13.01 CLP 176.47

PLANETOCENTRIC CONIC

C3 47.954 VHL 6.925 DLA 11.67 RAL 123.20 RAD 6568.8 VEL 13.012 PTH 2.37 VHP 12.135 DPA 12.74 RAP 107.73 ECC 1.7892
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 53 40 2802.89 -28.20 82.04 4.94 92.71 7 40 23 2202.9 -27.52 73.43
 90.00 21 51 35 4705.15 15.57 200.95 356.89 66.05 23 10 0 4105.1 12.21 193.89
 100.00 8 20 56 2521.47 -29.69 61.24 4.85 93.62 9 2 57 1921.5 -28.87 52.53
 100.00 23 7 1 4461.80 16.94 182.41 356.25 64.99 24 21 23 3861.8 13.43 175.38
 110.00 9 42 33 2266.06 -33.69 41.45 4.44 96.18 10 20 19 1660.1 -32.47 32.42
 110.00 0 5 49 4289.97 20.52 167.49 354.36 62.05 1 17 19 3690.0 16.62 160.53

DIFFERENTIAL CORRECTIONS

TOE-1.9136 TRA 5.2794 TC3-1.9196 BAU 1.2310 SGT 5428.6 SGR 392.2 SG3 100.7 ST 2074.5 SR 313.6 SS 526.8
 RDE .3690 RRA .2823 RC3 -.0438 FAU .00887 RRT .3484 RRF .3349 RTF .9491 CRT -.5957 CRS .5982 CST -.9997
 FDE -.4648 FRA 1.2759 FC3 -.1601 BSP 17793 SGB 5442.8 R23 .0030 R13 .9491 LSA 2148.6 MSA 250.9 SSA 12.8
 BOE 1.9489 BRA 5.2869 BC3 1.9201 FSP -.337 SG1 5430.4 SG2 367.5 THA 1.45 EL1 2083.1 EL2 250.9 ALF 174.78

LAUNCH DATE MAR 10 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 586.267
 RL 148.58 LAL .00 LOL 169.25 VL 25.523 GAL 12.94 AZL 92.50 MCA 304.45 SMA 116.93 ECC .34604 INC 2.4976 V1 29.988
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.524 GAP 19.73 AZP 91.41 TAL 152.62 TAP 97.07 RCA 76.46 APO 157.39 V2 35.250
 RC 211.012 GL -8.39 GP -11.21 ZAL 44.95 ZAP 167.96 ETS 251.19 ZAE 132.98 ETE 190.30 ZAC 156.45 ETC 12.80 CLP 175.58

PLANETOCENTRIC CONIC

C3 55.158 VHL 7.427 DLA 10.88 RAL 125.22 RAD 6569.0 VEL 13.286 PTH 2.43 VHP 12.681 DPA 12.72 RAP 110.10 ECC 1.9078
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 8 17 2811.31 -28.22 82.65 9.25 92.40 7 55 8 2211.3 -27.59 74.04
 90.00 21 53 6 4766.28 17.23 204.67 1.25 93.17 23 12 32 4166.3 13.99 197.49
 100.00 8 35 4 2531.40 -29.73 61.98 9.17 93.24 9 17 16 1931.4 -28.97 53.26
 100.00 23 9 0 4521.42 18.61 186.04 .63 96.18 24 24 21 3921.4 15.24 178.88
 110.00 9 55 40 2279.22 -33.78 42.46 8.80 95.58 10 33 39 1679.2 -32.64 33.41
 110.00 0 8 49 4346.37 22.29 170.91 358.78 63.38 1 21 16 3746.4 18.53 163.79

DIFFERENTIAL CORRECTIONS

TOE-2.1581 TRA 5.7911 TC3-1.6194 BAU 1.1944 SGT 5408.8 SGR 376.6 SG3 98.6 ST 2154.1 SR 304.6 SS 548.5
 RDE .3849 RRA .2882 RC3 -.0333 FAU .00769 RRT .3213 RRF .3110 RTF .9544 CRT -.6120 CRS .6118 CST -.9997
 FDE -.5014 FRA 1.3478 FC3 -.1207 BSP 17810 SGB 5421.9 R23 .0032 R13 .9544 LSA 2230.7 MSA 240.0 SSA 12.1
 BOE 2.1922 BRA 5.7983 BC3 1.6197 FSP -.331 SG1 5410.2 SG2 356.6 THA 1.29 EL1 2162.2 EL2 240.0 ALF 174.99

LAUNCH DATE MAR 10 1969

FLIGHT TIME 204.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 590.244
 RL 148.58 LAL .00 LOL 169.25 VL 25.482 GAL 14.29 AZL 92.79 MCA 307.69 SMA 116.71 ECC .36186 INC 2.7916 V1 29.988
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.499 GAP 20.75 AZP 91.71 TAL 151.28 TAP 98.97 RCA 74.48 APO 158.95 V2 35.254
 RC 212.528 GL -8.66 GP -11.06 ZAL 43.09 ZAP 167.72 ETS 246.79 ZAE 132.86 ETE 190.11 ZAC 154.19 ETC 12.64 CLP 174.65

PLANETOCENTRIC CONIC

C3 63.766 VHL 7.985 DLA 10.16 RAL 127.06 RAD 6569.2 VEL 13.606 PTH 2.49 VHP 13.291 DPA 12.64 RAP 112.44 ECC 2.0494
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 21 30 2822.94 -28.25 83.50 13.46 91.97 8 8 32 2222.9 -27.68 74.88
 90.00 21 54 34 4825.37 18.75 208.34 5.54 93.38 23 14 59 4225.4 15.65 201.04
 100.00 8 47 52 2544.36 -29.78 62.94 13.39 92.74 9 30 16 1944.4 -29.08 54.20
 100.00 23 10 53 4579.18 20.16 189.63 4.93 97.45 24 27 12 3979.2 16.93 182.33
 110.00 10 7 33 2295.02 -33.88 43.69 13.07 94.87 10 45 48 1695.0 -32.83 34.60
 110.00 0 11 37 4401.28 23.92 174.34 3.14 96.82 1 24 58 3801.3 20.33 167.04

DIFFERENTIAL CORRECTIONS

TOE-2.4162 TRA 6.3410 TC3-1.3465 BAU 1.1481 SGT 5384.8 SGR 360.3 SG3 96.6 ST 2220.9 SR 295.7 SS 570.7
 RDE .4025 RRA .2907 RC3 -.0243 FAU .00648 RRT .2898 RRF .2829 RTF .9597 CRT -.6280 CRS .6255 CST -.9998
 FDE -.5393 FRA 1.4259 FC3 -.0879 BSP 17802 SGB 5396.8 R23 .0038 R13 .9597 LSA 2300.6 MSA 229.4 SSA 11.4
 BOE 2.4495 BRA 6.3477 BC3 1.3467 FSP -.325 SG1 5385.8 SG2 344.8 THA 1.12 EL1 2228.8 EL2 229.3 ALF 175.17

LAUNCH DATE MAR 10 1969

FLIGHT TIME 206.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 593.877

RL 148.58 LAL .00 LOL 169.25 VL 25.443 GAL 15.77 AZL 93.11 MCA 310.92 SMA 116.51 ECC .37953 INC 3.1125 VI 29.988
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.474 GAP 21.88 AZP 92.04 TAL 150.04 TAP 100.96 RCA 72.29 APO 160.73 V2 35.256
 RC 214.018 GL -8.88 GP -10.93 ZAL 41.40 ZAP 167.39 ETS 242.38 ZAE 132.70 ETE 189.91 ZAC 151.97 ETC 12.50 CLP 173.67

PLANETOCENTRIC CONIC

C3 74.101 VHL 8.608 DLA 9.52 RAL 128.72 RAD 6569.4 VEL 13.980 PTH 2.55 VHP 13.975 DPA 12.52 RAP 114.72 ECC 2.2195
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 33 20 2837.42 -28.28 84.56 17.55 91.44 8 20 37 2237.4 -27.78 75.93
 90.00 21 55 59 4882.18 20.13 211.93 9.72 69.66 23 17 21 4282.2 17.18 204.50
 100.00 8 59 21 2560.00 -29.82 64.10 17.49 92.13 9 42 1 1960.0 -29.21 55.35
 100.00 23 12 39 4634.84 21.57 193.16 9.14 68.79 24 29 54 4034.8 18.50 185.72
 110.00 10 18 13 2313.17 -33.97 45.09 17.23 94.04 10 56 47 1713.2 -33.04 35.98
 110.00 0 14 12 4454.43 25.42 177.74 7.41 66.33 1 28 26 3854.4 22.00 170.26

DIFFERENTIAL CORRECTIONS

TDE-2.6902 TRA 6.9335 TC3-1.1004 BAU 1.0902
 RDE .4221 RRA .2890 RC3 -.0168 FAU .00519
 FDE -.5790 FRA 1.5111 FC3 -.0607 BSP 17784
 BOE 2.7231 BRA 6.9395 BC3 1.1005 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 5356.4 SGR 343.3 SG3 94.6
 RRT .2526 RRF .2492 RTF .9648
 SGB 5367.4 R23 .0047 R13 .9648
 SG1 5357.1 SG2 332.1 TMA .93

ORBIT DETERMINATION ACCURACY

ST 2276.0 SR 287.0 SS 594.1
 CRT -.6444 CRS .6399 CST -.9998
 LSA 2359.5 MSA 218.9 SSA 10.8
 EL1 2283.5 EL2 218.7 ALF 175.31

LAUNCH DATE MAR 10 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 597.086

RL 148.58 LAL .00 LOL 169.25 VL 25.405 GAL 17.40 AZL 93.47 MCA 314.16 SMA 116.31 ECC .39935 INC 3.4667 VI 29.988
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.450 GAP 23.15 AZP 92.42 TAL 148.92 TAP 103.08 RCA 69.86 APO 162.76 V2 35.259
 RC 215.482 GL -9.06 GP -10.80 ZAL 39.90 ZAP 166.95 ETS 238.02 ZAE 132.46 ETE 189.70 ZAC 149.81 ETC 12.40 CLP 172.63

PLANETOCENTRIC CONIC

C3 86.583 VHL 9.305 DLA 8.94 RAL 130.20 RAD 6569.7 VEL 14.420 PTH 2.62 VHP 14.744 DPA 12.37 RAP 116.94 ECC 2.4249
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 43 49 2854.40 -28.31 85.80 21.49 90.82 8 31 23 2254.4 -27.89 77.16
 90.00 21 57 20 4936.42 21.38 215.42 13.78 70.98 23 19 36 4336.4 18.59 207.86
 100.00 9 9 31 2577.98 -29.86 65.43 21.46 91.42 9 52 29 1978.0 -29.34 56.67
 100.00 23 14 18 4688.07 22.85 196.61 13.22 70.18 24 32 27 4088.1 19.94 189.02
 110.00 10 27 42 2333.34 -34.06 46.66 21.26 93.11 11 6 35 1733.3 -33.25 37.52
 110.00 0 16 33 4505.48 26.77 181.10 11.56 67.90 1 31 39 3905.5 23.53 173.43

DIFFERENTIAL CORRECTIONS

TDE-2.9787 TRA 7.5781 TC3 -.8779 BAU 1.0162
 RDE .4442 RRA .2824 RC3 -.0107 FAU .00377
 FDE -.6202 FRA 1.6056 FC3 -.0376 BSP 17660
 BOE 3.0117 BRA 7.5833 BC3 .8779 FSP -310

MID-COURSE EXECUTION ACCURACY

SGT 5324.1 SGR 325.9 SG3 92.7
 RRT .2089 RRF .2090 RTF .9697
 SGB 5334.1 R23 .0058 R13 .9697
 SG1 5324.5 SG2 318.6 TMA .74

ORBIT DETERMINATION ACCURACY

ST 2318.3 SR 278.6 SS 618.9
 CRT -.6609 CRS .6547 CST -.9998
 LSA 2406.6 MSA 208.6 SSA 10.2
 EL1 2325.7 EL2 208.4 ALF 175.42

LAUNCH DATE MAR 10 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

DISTANCE 599.761

RL 148.58 LAL .00 LOL 169.25 VL 25.370 GAL 19.20 AZL 93.86 MCA 317.40 SMA 116.13 ECC .42166 INC 3.8620 VI 29.988
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.427 GAP 24.59 AZP 92.84 TAL 147.95 TAP 105.34 RCA 67.16 APO 165.10 V2 35.260
 RC 216.920 GL -9.20 GP -10.68 ZAL 38.58 ZAP 166.39 ETS 233.72 ZAE 132.16 ETE 189.47 ZAC 147.73 ETC 12.32 CLP 171.51

PLANETOCENTRIC CONIC

C3 101.757 VHL 10.087 DLA 8.45 RAL 131.51 RAD 6570.0 VEL 14.936 PTH 2.69 VHP 15.617 DPA 12.19 RAP 119.08 ECC 2.6747
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 52 56 2873.58 -28.32 87.20 25.26 90.12 8 40 50 2273.6 -28.00 78.55
 90.00 21 58 35 4987.73 22.48 218.78 17.67 72.31 23 21 43 4387.7 19.85 211.10
 100.00 9 18 23 2598.02 -29.89 66.92 25.25 90.64 10 1 41 1998.0 -29.48 58.14
 100.00 23 15 50 4738.53 23.97 199.93 17.14 71.58 24 34 49 4138.5 21.23 192.21
 110.00 10 35 58 2355.24 -34.13 48.37 25.13 92.10 11 15 13 1755.2 -33.46 39.19
 110.00 0 18 40 4554.08 27.97 184.36 15.57 69.50 1 34 34 3954.1 24.92 176.52

DIFFERENTIAL CORRECTIONS

TDE-3.2925 TRA 8.2727 TC3 -.6815 BAU .9271
 RDE .4689 RRA .2694 RC3 -.0061 FAU .00223
 FDE -.6655 FRA 1.7090 FC3 -.0190 BSP 17635
 BOE 3.3257 BRA 8.2771 BC3 .6815 FSP -305

MID-COURSE EXECUTION ACCURACY

SGT 5287.1 SGR 308.2 SG3 90.9
 RRT .1557 RRF .1591 RTF .9744
 SGB 5296.1 R23 .0070 R13 .9744
 SG1 5287.3 SG2 304.5 TMA .52

ORBIT DETERMINATION ACCURACY

ST 2351.6 SR 270.3 SS 646.5
 CRT -.6794 CRS .6718 CST -.9998
 LSA 2445.7 MSA 198.0 SSA 9.5
 EL1 2358.8 EL2 197.8 ALF 175.50

LAUNCH DATE MAR 10 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC

DISTANCE 601.763

RL 148.58 LAL .00 LOL 169.25 VL 25.336 GAL 21.21 AZL 94.31 MCA 320.63 SMA 115.96 ECC .44686 INC 4.3091 VI 29.988
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.404 GAP 26.23 AZP 93.33 TAL 147.15 TAP 107.79 RCA 64.14 APO 167.77 V2 35.261
 RC 218.330 GL -9.31 GP -10.56 ZAL 37.46 ZAP 165.70 ETS 229.50 ZAE 131.75 ETE 189.23 ZAC 145.73 ETC 12.27 CLP 170.31

PLANETOCENTRIC CONIC

C3 120.348 VHL 10.970 DLA 8.03 RAL 132.62 RAD 6570.3 VEL 15.546 PTH 2.77 VHP 16.610 DPA 11.99 RAP 121.13 ECC 2.9806
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 0 40 2894.70 -28.31 88.75 28.83 89.34 8 48 54 2294.7 -28.10 80.09
 90.00 21 59 45 5035.72 23.44 221.98 21.35 73.63 23 23 41 4435.7 20.97 214.17
 100.00 9 25 53 2619.84 -29.89 68.55 28.84 89.79 10 9 32 2019.8 -29.60 59.75
 100.00 23 17 13 4785.80 24.95 203.10 20.85 72.98 24 36 59 4185.8 22.38 195.25
 110.00 10 42 58 2378.60 -34.17 50.19 28.81 91.03 11 22 36 1778.6 -33.65 40.99
 110.00 0 20 33 4599.81 29.02 187.51 19.37 71.09 1 37 13 3999.8 26.16 179.49

DIFFERENTIAL CORRECTIONS

TDE-3.6290 TRA 9.0306 TC3 -.5069 BAU .8156
 RDE .4970 RRA .2487 RC3 -.0027 FAU .00046
 FDE -.7144 FRA 1.8242 FC3 -.0033 BSP 17587
 BOE 3.6629 BRA 9.0340 BC3 .5069 FSP -299

MID-COURSE EXECUTION ACCURACY

SGT 5245.7 SGR 290.9 SG3 89.2
 RRT .0915 RRF .0980 RTF .9787
 SGB 5253.7 R23 .0082 R13 .9787
 SG1 5245.7 SG2 289.7 TMA .29

ORBIT DETERMINATION ACCURACY

ST 2373.9 SR 262.5 SS 677.0
 CRT -.6991 CRS .6903 CST -.9998
 LSA 2475.4 MSA 187.5 SSA 9.0
 EL1 2381.0 EL2 187.1 ALF 175.55

LAUNCH DATE MAR 10 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 10 1969

HELIOCENTRIC CONIC

DISTANCE 602.907

RL 148.58 LAL .00 LOL 169.25 VL 25.305 GAL 23.47 AZL 94.82 HCA 323.87 SMA 115.80 ECC .47541 INC 4.8224 V1 29.988
 RP 107.47 LAP 2.84 LOP 133.21 VP 36.382 GAP 28.11 AZP 93.90 TAL 146.58 TAP 110.44 RCA 60.75 APO 170.85 V2 35.260
 RC 219.714 GL -9.38 GP -10.45 ZAL 36.54 ZAP 164.87 ETS 225.39 ZAE 131.24 ETE 188.97 ZAC 143.83 ETC 12.24 CLP 169.00

PLANETOCENTRIC CONIC

C3 143.319 VML 11.972 DLA 7.69 RAL 133.53 RAD 6570.6 VEL 16.268 PTH 2.85 VHP 17.748 DPA 11.77 RAP 123.06 ECC 3.3587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 6 54 2917.54 -28.28 90.42 32.16 88.51 8 55 32 2317.5 -28.19 81.75
 90.00 22 0 47 5079.89 24.25 224.96 24.78 74.91 23 25 27 4479.9 21.94 217.04
 100.00 9 31 57 2643.24 -29.87 70.29 32.20 88.87 10 16 0 2043.2 -29.71 61.48
 100.00 23 18 26 4829.42 25.79 206.07 24.31 74.33 24 38 55 4229.4 23.39 198.10
 110.00 10 48 39 2403.22 -34.18 52.12 32.26 89.89 11 28 42 1803.2 -33.82 42.89
 110.00 0 22 9 4642.21 29.92 190.48 22.92 72.64 1 39 31 4042.2 27.25 182.31

DIFFERENTIAL CORRECTIONS

TDE-3.9913 TRA 9.8590 TC3 -.3528 BAU .6759
 RDE .5292 RRA .2185 RC3 -.0006 FAU-.00162
 FDE -.7678 FRA 1.9533 FC3 .0098 BSP 17518
 BDE 4.0262 BRA 9.8615 BC3 .3528 FSP -294

MID-COURSE EXECUTION ACCURACY

SGT 5199.3 SGR 274.4 S63 87.5
 RRT .0140 RRF .0233 RTF .9826
 SGB 5206.6 R23 .0095 R13 .9826
 SGI 5199.3 S62 274.3 THA .04

ORBIT DETERMINATION ACCURACY

ST 2385.4 SR 255.2 SS 711.2
 CRT -.7203 CRS .7105 CST -.9998
 LSA 2495.9 MSA 177.0 SSA 8.4
 EL1 2392.5 EL2 176.5 ALF 175.57

LAUNCH DATE MAR 10 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 12 1969

HELIOCENTRIC CONIC

DISTANCE 602.947

RL 148.58 LAL .00 LOL 169.25 VL 25.277 GAL 26.02 AZL 95.42 HCA 327.10 SMA 115.66 ECC .50785 INC 5.4217 V1 29.988
 RP 107.47 LAP 2.94 LOP 136.46 VP 36.362 GAP 30.28 AZP 94.56 TAL 146.27 TAP 113.37 RCA 56.92 APO 174.39 V2 35.260
 RC 221.070 GL -9.42 GP -10.33 ZAL 35.84 ZAP 163.87 ETS 221.39 ZAE 130.59 ETE 188.67 ZAC 142.07 ETC 12.23 CLP 167.55

PLANETOCENTRIC CONIC

C3 171.970 VML 13.114 DLA 7.45 RAL 134.23 RAD 6570.9 VEL 17.126 PTH 2.93 VHP 19.060 DPA 11.56 RAP 124.86 ECC 3.8302
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 11 33 2941.98 -28.22 92.20 35.21 87.61 9 0 35 2342.0 -28.26 83.54
 90.00 22 1 42 5119.71 24.93 227.68 27.89 76.12 23 27 1 4519.7 22.77 219.67
 100.00 9 36 28 2668.08 -29.83 72.13 35.28 87.90 10 20 56 2068.1 -29.80 63.33
 100.00 23 19 27 4868.84 26.48 208.80 27.45 75.60 24 40 36 4268.8 24.24 200.71
 110.00 10 52 53 2428.93 -34.16 54.13 35.43 88.70 11 33 22 1828.9 -33.96 44.89
 110.00 0 23 28 4680.75 30.67 193.23 26.16 74.11 1 41 28 4080.8 28.19 184.92

DIFFERENTIAL CORRECTIONS

TDE-4.3780 TRA10.7712 TC3 -.2167 BAU .4983
 RDE .5665 RRA .1766 RC3 .0004 FAU-.00420
 FDE -.8259 FRA 2.0997 FC3 .0211 BSP 17336
 BDE 4.4145 BRA10.7726 BC3 .2167 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 5148.6 SGR 259.4 S63 85.9
 RRT -.0784 RRF -.0669 RTF .9861
 SGB 5155.2 R23 -.0107 R13 -.9861
 SGI 5148.7 S62 258.6 THA 179.77

ORBIT DETERMINATION ACCURACY

ST 2384.6 SR 248.6 SS 749.7
 CRT -.7425 CRS .7319 CST -.9998
 LSA 2506.5 MSA 166.7 SSA 7.8
 EL1 2391.8 EL2 166.0 ALF 175.55

LAUNCH DATE MAR 10 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 14 1969

HELIOCENTRIC CONIC

DISTANCE 601.556

RL 148.58 LAL .00 LOL 169.25 VL 25.253 GAL 28.94 AZL 96.14 HCA 330.32 SMA 115.53 ECC .54476 INC 6.1355 V1 29.988
 RP 107.48 LAP 3.03 LOP 139.71 VP 36.344 GAP 32.79 AZP 95.34 TAL 146.29 TAP 116.62 RCA 52.60 APO 178.47 V2 35.258
 RC 222.400 GL -9.42 GP -10.21 ZAL 35.38 ZAP 162.67 ETS 217.51 ZAE 129.77 ETE 188.34 ZAC 140.47 ETC 12.25 CLP 165.93

PLANETOCENTRIC CONIC

C3 208.060 VML 14.424 DLA 7.32 RAL 134.68 RAD 6571.2 VEL 18.149 PTH 3.02 VHP 20.582 DPA 11.36 RAP 126.49 ECC 4.4241
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 14 25 2968.00 -28.14 94.10 37.94 86.66 9 3 53 2368.0 -28.30 85.44
 90.00 22 2 26 5154.52 25.48 230.08 30.62 77.20 23 28 20 4554.5 23.46 221.99
 100.00 9 39 16 2694.33 -29.74 74.08 38.04 86.88 10 24 10 2094.3 -29.86 65.28
 100.00 23 20 16 4903.42 27.04 211.21 30.22 76.76 24 41 59 4303.4 24.95 203.04
 110.00 10 55 31 2455.68 -34.10 56.21 38.30 87.47 11 36 27 1855.7 -34.08 46.97
 110.00 0 24 25 4714.84 31.28 195.70 29.02 75.45 1 43 0 4114.8 28.97 187.26

DIFFERENTIAL CORRECTIONS

TDE-4.7998 TRA11.7654 TC3 -.0996 BAU .2770
 RDE .6102 RRA .1198 RC3 .0004 FAU-.00735
 FDE -.8914 FRA 2.2641 FC3 .0306 BSP 17250
 BDE 4.8384 BRA11.7660 BC3 .0996 FSP -284

MID-COURSE EXECUTION ACCURACY

SGT 5091.0 SGR 247.1 S63 84.4
 RRT -.1878 RRF -.1747 RTF .9892
 SGB 5097.0 R23 -.0117 R13 -.9892
 SGI 5091.2 S62 242.7 THA 179.48

ORBIT DETERMINATION ACCURACY

ST 2373.4 SR 242.8 SS 794.0
 CRT -.7666 CRS .7555 CST -.9998
 LSA 2509.6 MSA 156.3 SSA 7.2
 EL1 2380.7 EL2 155.4 ALF 175.50

LAUNCH DATE MAR 10 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 16 1969

HELIOCENTRIC CONIC

DISTANCE 598.308

RL 148.58 LAL .00 LOL 169.25 VL 25.234 GAL 32.29 AZL 97.01 HCA 333.55 SMA 115.44 ECC .58674 INC 7.0057 V1 29.988
 RP 107.49 LAP 3.11 LOP 142.96 VP 36.328 GAP 35.74 AZP 96.28 TAL 146.73 TAP 120.27 RCA 47.71 APO 183.17 V2 35.255
 RC 223.702 GL -9.40 GP -10.08 ZAL 35.21 ZAP 161.24 ETS 213.75 ZAE 128.75 ETE 187.97 ZAC 139.07 ETC 12.30 CLP 164.10

PLANETOCENTRIC CONIC

C3 253.980 VML 15.937 DLA 7.30 RAL 134.85 RAD 6571.5 VEL 19.372 PTH 3.10 VHP 22.357 DPA 11.20 RAP 127.91 ECC 5.1799
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 15 16 2995.72 -28.01 96.12 40.29 85.66 9 5 12 2395.7 -28.32 87.47
 90.00 22 2 58 5183.57 25.90 232.10 32.90 78.13 23 29 21 4583.6 24.00 223.95
 100.00 9 40 7 2722.09 -29.62 76.13 40.42 85.81 10 25 29 2122.1 -29.89 67.34
 100.00 23 20 48 4932.44 27.48 213.26 32.52 77.75 24 43 1 4332.4 25.52 205.01
 110.00 10 56 21 2483.51 -34.00 58.38 40.78 86.19 11 37 44 1883.5 -34.15 49.14
 110.00 0 24 59 4743.78 31.75 197.82 31.40 76.62 1 44 3 4143.8 29.59 189.28

DIFFERENTIAL CORRECTIONS

TDE-5.2502 TRA12.8531 TC3 .0013 BAU .0050
 RDE .6619 RRA .0448 RC3 -.0006 FAU-.01138
 FDE -.9640 FRA 2.4509 FC3 .0388 BSP 17117
 BDE 5.2917 BRA12.8532 BC3 .0015 FSP -279

MID-COURSE EXECUTION ACCURACY

SGT 5026.5 SGR 238.5 S63 83.1
 RRT -.3116 RRF -.2977 RTF .9917
 SGB 5032.2 R23 -.0125 R13 -.9917
 SGI 5027.1 S62 226.6 THA 179.15

ORBIT DETERMINATION ACCURACY

ST 2348.6 SR 238.0 SS 844.5
 CRT -.7913 CRS .7801 CST -.9998
 LSA 2502.9 MSA 146.2 SSA 6.7
 EL1 2356.2 EL2 145.1 ALF 175.40

LAUNCH DATE MAR 11 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 20 1969

HELIOCENTRIC CONIC

DISTANCE 207.016

RL 148.62 LAL .00 LOL 170.25 VL 29.397 GAL -14.46 AZL 90.49 HCA 94.43 SMA 143.98 ECC .25167 INC .4903 VI 29.980
 RP 108.72 LAP -.49 LOP 264.67 VP 38.984 GAP -3.43 AZP 89.96 TAL 248.41 TAP 342.84 RCA 107.74 APO 180.21 V2 34.858
 RC 71.560 GL -1.76 GP 26.09 ZAL 168.89 ZAP 61.49 ETS 346.97 ZAE 154.40 ETE 70.01 ZAC 110.21 ETC 154.25 CLP -57.90

PLANETOCENTRIC CONIC

C3 63.225 VHL 7.951 DLA -1.13 RAL 1.81 RAD 6569.2 VEL 13.586 PTH 2.48 VHP 5.243 DPA 31.62 RAP 14.10 ECC 2.0405
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 23 49 2465.15 -24.75 58.00 242.75 104.21 1 4 54 1865.2 -22.56 50.02
 90.00 12 5 9 5179.05 25.83 231.79 243.69 77.98 13 31 28 4579.0 23.92 223.64
 100.00 1 44 38 2204.46 -26.13 38.43 242.35 105.06 2 21 23 1604.5 -23.81 30.40
 100.00 13 27 1 4914.98 27.22 212.03 243.35 77.15 14 48 56 4315.0 25.18 203.82
 110.00 2 51 41 1994.60 -29.85 21.27 241.13 107.50 3 24 55 1394.6 -27.16 13.11
 110.00 14 36 28 4697.61 30.98 194.45 242.27 74.77 15 54 45 4097.6 28.58 186.07

DIFFERENTIAL CORRECTIONS

TDE -.2692 TRA -.6196 TC3 .0281 BAU .2069
 RDE -.3191 RRA .4366 RC3 .2431 FAU .08835
 FDE-1.0718 FRA-1.0761 FC3-1.2097 BSP 1261
 BOE .4175 BRA .7580 BC3 .2447 FSP -548

MID-COURSE EXECUTION ACCURACY

SGT 488.9 SGR 549.0 SG3 191.2
 RRT -.2931 RRF -.6668 RTF .3792
 SGB 735.1 R23 .1216 R13 -.6832
 SG1 595.7 SG2 430.8 THA 124.19

ORBIT DETERMINATION ACCURACY

ST 235.7 SR 248.8 SS 366.3
 CRT .5450 CRS -.7701 CST -.9489
 LSA 471.5 MSA 170.1 SSA 20.8
 EL1 301.5 EL2 163.1 ALF 47.84

LAUNCH DATE MAR 11 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 213.552

RL 148.62 LAL .00 LOL 170.25 VL 29.393 GAL -14.30 AZL 90.68 HCA 97.60 SMA 143.95 ECC .24901 INC .6799 VI 29.980
 RP 108.74 LAP -.67 LOP 267.84 VP 38.973 GAP -2.77 AZP 89.91 TAL 248.44 TAP 346.04 RCA 108.10 APO 179.79 V2 34.848
 RC 73.792 GL -2.46 GP 27.26 ZAL 168.77 ZAP 66.17 ETS 349.17 ZAE 153.90 ETE 77.78 ZAC 108.17 ETC 154.93 CLP -62.96

PLANETOCENTRIC CONIC

C3 61.979 VHL 7.873 DLA -1.78 RAL 2.09 RAD 6569.2 VEL 13.540 PTH 2.48 VHP 5.065 DPA 31.88 RAP 11.71 ECC 2.0200
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 29 44 2440.22 -24.33 56.30 242.43 104.96 1 10 24 1840.2 -22.04 48.38
 90.00 12 1 26 5194.36 26.05 232.86 243.89 78.48 13 28 0 4594.4 24.20 224.68
 100.00 1 50 15 2180.50 -25.70 36.78 242.01 105.82 2 26 35 1580.5 -23.28 28.82
 100.00 13 23 36 4929.32 27.44 213.04 243.56 77.64 14 45 45 4329.3 25.46 204.80
 110.00 2 56 36 1972.80 -29.39 19.74 240.73 108.30 3 29 28 1372.8 -26.61 11.66
 110.00 14 33 44 4709.78 31.19 195.33 242.52 75.25 15 52 14 4109.8 28.85 186.91

DIFFERENTIAL CORRECTIONS

TDE -.2956 TRA -.6685 TC3 -.0095 BAU .2226
 RDE -.2920 RRA .4460 RC3 .2684 FAU .09353
 FDE-1.1746 FRA-1.1243 FC3-1.3065 BSP 1452
 BOE .4155 BRA .8036 BC3 .2686 FSP -598

MID-COURSE EXECUTION ACCURACY

SGT 532.4 SGR 573.8 SG3 205.1
 RRT -.3885 RRF -.7003 RTF .4853
 SGB 782.7 R23 .1314 R13 -.7257
 SG1 653.6 SG2 430.7 THA 129.54

ORBIT DETERMINATION ACCURACY

ST 260.0 SR 234.1 SS 390.2
 CRT .5172 CRS -.7519 CST -.9481
 LSA 494.5 MSA 172.3 SSA 20.9
 EL1 305.5 EL2 170.5 ALF 39.25

LAUNCH DATE MAR 11 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 220.041

RL 148.62 LAL .00 LOL 170.25 VL 29.381 GAL -14.14 AZL 90.87 HCA 100.76 SMA 143.84 ECC .24648 INC .8723 VI 29.980
 RP 108.77 LAP -.86 LOP 271.01 VP 38.956 GAP -2.15 AZP 89.84 TAL 248.33 TAP 349.10 RCA 108.38 APO 179.29 V2 34.839
 RC 76.053 GL -3.19 GP 28.39 ZAL 168.53 ZAP 70.86 ETS 351.43 ZAE 153.06 ETE 85.50 ZAC 106.09 ETC 155.71 CLP -68.12

PLANETOCENTRIC CONIC

C3 60.789 VHL 7.797 DLA -2.42 RAL 2.44 RAD 6569.1 VEL 13.496 PTH 2.47 VHP 4.923 DPA 32.06 RAP 9.26 ECC 2.0004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 35 54 2415.59 -23.88 54.63 242.20 105.68 1 16 9 1815.6 -21.50 46.77
 90.00 11 58 3 5209.59 26.25 233.93 244.18 78.98 13 24 53 4609.6 24.46 225.71
 100.00 1 56 7 2156.83 -25.25 35.17 241.77 106.56 2 32 4 1556.8 -22.74 27.27
 100.00 13 20 31 4943.58 27.64 214.05 243.86 78.14 14 42 55 4343.6 25.72 205.77
 110.00 3 1 46 1951.29 -28.92 18.24 240.44 109.07 3 34 18 1351.3 -26.05 10.24
 110.00 14 31 21 4721.89 31.40 196.22 242.86 75.73 15 50 3 4121.9 29.12 187.75

DIFFERENTIAL CORRECTIONS

TDE -.3284 TRA -.7230 TC3 -.0533 BAU .2420
 RDE -.2643 RRA .4516 RC3 .2930 FAU .09781
 FDE-1.2681 FRA-1.1545 FC3-1.3930 BSP 1670
 BOE .4216 BRA .8525 BC3 .2978 FSP -638

MID-COURSE EXECUTION ACCURACY

SGT 589.9 SGR 597.3 SG3 217.0
 RRT -.4760 RRF -.7288 RTF .5784
 SGB 839.5 R23 .1381 R13 -.7625
 SG1 721.2 SG2 429.6 THA 134.24

ORBIT DETERMINATION ACCURACY

ST 289.3 SR 218.8 SS 411.9
 CRT .4889 CRS -.7306 CST -.9485
 LSA 520.3 MSA 173.3 SSA 20.9
 EL1 318.6 EL2 173.2 ALF 29.96

LAUNCH DATE MAR 11 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 226.484

RL 148.62 LAL .00 LOL 170.25 VL 29.361 GAL -13.99 AZL 91.07 HCA 103.93 SMA 143.65 ECC .24406 INC 1.0686 VI 29.980
 RP 108.80 LAP -1.04 LOP 274.17 VP 38.933 GAP -1.56 AZP 89.74 TAL 248.10 TAP 352.03 RCA 108.59 APO 178.71 V2 34.831
 RC 78.340 GL -3.95 GP 29.47 ZAL 168.17 ZAP 75.52 ETS 353.76 ZAE 151.87 ETE 92.92 ZAC 104.02 ETC 156.55 CLP -73.31

PLANETOCENTRIC CONIC

C3 59.644 VHL 7.723 DLA -3.06 RAL 2.86 RAD 6569.1 VEL 13.454 PTH 2.46 VHP 4.815 DPA 32.17 RAP 6.81 ECC 1.9816
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 42 21 2391.03 -23.42 52.98 242.07 106.38 1 22 12 1791.0 -20.95 45.18
 90.00 11 54 58 5224.89 26.44 235.00 244.54 79.49 13 22 3 4624.9 24.72 226.76
 100.00 2 2 16 2133.24 -24.78 33.57 241.62 107.28 2 37 50 1533.2 -22.18 25.74
 100.00 13 17 44 4957.92 27.84 215.07 244.24 78.64 14 40 22 4357.9 25.99 206.76
 110.00 3 7 14 1929.86 -28.43 16.76 240.25 109.82 3 39 24 1329.9 -25.47 8.84
 110.00 14 29 15 4734.06 31.60 197.11 243.28 76.23 15 48 9 4134.1 29.38 188.60

DIFFERENTIAL CORRECTIONS

TDE -.3666 TRA -.7812 TC3 -.1020 BAU .2656
 RDE -.2353 RRA .4543 RC3 .3171 FAU .10132
 FDE-1.3558 FRA-1.1711 FC3-1.4706 BSP 1930
 BOE .4357 BRA .9037 BC3 .3331 FSP -679

MID-COURSE EXECUTION ACCURACY

SGT 660.1 SGR 619.9 SG3 227.4
 RRT -.5513 RRF -.7542 RTF .6541
 SGB 905.5 R23 .1432 R13 -.7936
 SG1 798.1 SG2 427.7 THA 138.25

ORBIT DETERMINATION ACCURACY

ST 323.0 SR 202.4 SS 433.3
 CRT .4557 CRS -.7031 CST -.9495
 LSA 550.1 MSA 173.0 SSA 20.9
 EL1 340.8 EL2 170.7 ALF 21.62

LAUNCH DATE MAR 11 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 232.883

RL 148.62 LAL .00 LOL 170.25 VL 29.333 GAL -13.83 AZL 91.27 MCA 107.09 SMA 143.40 ECC .24172 INC 1.2702 V1 29.980
 RP 108.82 LAP -1.21 LOP 277.34 VP 38.905 GAP -1.00 AZP 89.63 TAL 247.75 TAP 354.84 RCA 108.74 APO 178.06 V2 34.824
 RC 80.651 GL -4.73 GP 30.49 ZAL 167.71 ZAP 80.11 ETS 356.17 ZAE 150.39 ETE 99.83 ZAC 102.01 ETC 157.43 CLP -78.51

PLANETOCENTRIC CONIC

C3 58.534 VHL 7.651 DLA -3.71 RAL 3.35 RAD 6569.1 VEL 13.412 PTH 2.45 VHP 4.739 DPA 32.23 RAP 4.41 ECC 1.9633
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 49 9 2366.31 -22.94 51.33 242.02 107.07 1 28 36 1766.3 -20.38 43.59
 90.00 11 52 6 5240.45 26.63 236.10 244.99 80.01 13 19 26 4640.4 24.98 227.83
 100.00 2 8 46 2109.51 -24.29 31.98 241.55 107.98 2 43 55 1509.5 -21.60 24.21
 100.00 13 15 10 4972.48 28.03 216.11 244.70 79.15 14 38 3 4372.5 26.24 207.76
 110.00 3 13 2 1908.32 -27.93 15.29 240.14 110.56 3 44 50 1308.3 -24.87 7.45
 110.00 14 27 24 4746.44 31.80 198.02 243.77 76.73 15 46 30 4146.4 29.65 189.47

DIFFERENTIAL CORRECTIONS

TOE -.4112 TRA -.8428 TC3 -.1559 BAU .2922
 RDE -.2067 RRA .4523 RC3 .3393 FAU .10362
 FDE -1.4290 FRA -1.1668 FC3 -1.5326 BSP 2210
 BOE .4602 BRA .9565 BC3 .3734 FSP -706

MID-COURSE EXECUTION ACCURACY

SGT 742.8 SGR 639.4 SG3 235.2
 RRT -.6125 RRF -.7752 RTF .7134
 SGB 980.1 R23 .1484 R13 -.8186
 SG1 883.1 SG2 425.1 THA 141.90

ORBIT DETERMINATION ACCURACY

ST 361.8 SR 185.9 SS 452.1
 CRT .4196 CRS -.6712 CST -.9510
 LSA 583.1 MSA 171.6 SSA 20.9
 EL1 372.2 EL2 164.0 ALF 15.19

LAUNCH DATE MAR 11 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 239.239

RL 148.62 LAL .00 LOL 170.25 VL 29.299 GAL -13.68 AZL 91.48 MCA 110.25 SMA 143.09 ECC .23945 INC 1.4788 V1 29.980
 RP 108.84 LAP -1.39 LOP 280.50 VP 38.873 GAP -.48 AZP 89.49 TAL 247.29 TAP 357.54 RCA 108.82 APO 177.35 V2 34.816
 RC 82.981 GL -5.56 GP 31.44 ZAL 167.14 ZAP 84.58 ETS 358.63 ZAE 148.65 ETE 106.11 ZAC 100.08 ETC 158.31 CLP -83.64

PLANETOCENTRIC CONIC

C3 57.457 VHL 7.580 DLA -4.37 RAL 3.92 RAD 6569.0 VEL 13.372 PTH 2.44 VHP 4.692 DPA 32.26 RAP 2.12 ECC 1.9456
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 56 21 2341.19 -22.43 49.67 242.05 107.76 1 35 22 1741.2 -19.79 41.99
 90.00 11 49 24 5256.47 26.82 237.24 245.52 80.55 13 17 1 4656.5 25.24 228.93
 100.00 2 15 38 2085.40 -23.77 30.37 241.57 108.68 2 50 24 1485.4 -21.00 22.67
 100.00 13 12 48 4987.50 28.21 217.19 245.24 79.69 14 35 55 4387.5 26.50 208.80
 110.00 3 19 11 1886.46 -27.40 13.81 240.11 111.29 3 50 38 1286.5 -24.26 6.06
 110.00 14 25 44 4759.21 31.99 198.96 244.35 77.26 15 45 3 4159.2 29.91 190.37

DIFFERENTIAL CORRECTIONS

TOE -.4615 TRA -.9060 TC3 -.2137 BAU .3218
 RDE -.1772 RRA .4467 RC3 .3603 FAU .10497
 FDE -1.4931 FRA -1.1486 FC3 -1.5817 BSP 2524
 BOE .4943 BRA 1.0101 BC3 .4189 FSP -732

MID-COURSE EXECUTION ACCURACY

SGT 835.6 SGR 656.5 SG3 241.0
 RRT -.6613 RRF -.7937 RTF .7586
 SGB 1062.7 R23 .1536 R13 -.8387
 SG1 975.3 SG2 421.9 THA 145.11

ORBIT DETERMINATION ACCURACY

ST 405.2 SR 168.9 SS 470.5
 CRT .3744 CRS -.6296 CST -.9529
 LSA 620.6 MSA 169.0 SSA 20.9
 EL1 411.0 EL2 154.4 ALF 10.35

LAUNCH DATE MAR 11 1969

FLIGHT TIME 82.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 245.552

RL 148.62 LAL .00 LOL 170.25 VL 29.258 GAL -13.52 AZL 91.70 MCA 113.41 SMA 142.72 ECC .23724 INC 1.6960 V1 29.980
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.837 GAP -.03 AZP 89.33 TAL 246.72 TAP .13 RCA 108.86 APO 176.58 V2 34.810
 RC 85.328 GL -6.44 GP 32.35 ZAL 166.48 ZAP 88.87 ETS 1.15 ZAE 146.72 ETE 111.69 ZAC 98.27 ETC 159.16 CLP -88.67

PLANETOCENTRIC CONIC

C3 56.406 VHL 7.510 DLA -5.04 RAL 4.55 RAD 6569.0 VEL 13.333 PTH 2.44 VHP 4.673 DPA 32.28 RAP 359.97 ECC 1.9283
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 4 0 2315.41 -21.88 47.97 242.17 108.44 1 42 35 1715.4 -19.16 40.35
 90.00 11 46 49 5273.20 27.00 238.43 246.13 81.12 13 14 42 4673.2 25.49 230.09
 100.00 2 22 58 2060.67 -23.22 28.74 241.67 109.37 2 57 18 1460.7 -20.37 21.11
 100.00 13 10 32 5003.17 28.40 218.31 245.87 80.26 14 33 55 4403.2 26.76 209.89
 110.00 3 25 46 1864.06 -26.83 12.32 240.16 112.02 3 56 50 1264.1 -23.61 4.64
 110.00 14 24 14 4772.55 32.19 199.95 245.02 77.82 15 43 46 4172.5 30.18 191.32

DIFFERENTIAL CORRECTIONS

TOE -.5179 TRA -.9700 TC3 -.2750 BAU .3516
 RDE -.1514 RRA .4347 RC3 .3765 FAU .10442
 FDE -1.5271 FRA -1.1045 FC3 -1.6026 BSP 2804
 BOE .5396 BRA 1.0630 BC3 .4662 FSP -715

MID-COURSE EXECUTION ACCURACY

SGT 937.3 SGR 666.3 SG3 242.3
 RRT -.6969 RRF -.8070 RTF .7923
 SGB 1150.0 R23 .1596 R13 -.8536
 SG1 1071.4 SG2 418.1 THA 148.27

ORBIT DETERMINATION ACCURACY

ST 453.8 SR 153.7 SS 482.3
 CRT .3324 CRS -.5886 CST -.9551
 LSA 659.0 MSA 165.7 SSA 20.7
 EL1 457.0 EL2 143.9 ALF 7.13

LAUNCH DATE MAR 11 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 251.828

RL 148.62 LAL .00 LOL 170.25 VL 29.213 GAL -13.36 AZL 91.92 MCA 116.57 SMA 142.31 ECC .23508 INC 1.9236 V1 29.980
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.798 GAP -.50 AZP 89.14 TAL 246.07 TAP 2.64 RCA 108.86 APO 175.77 V2 34.804
 RC 87.691 GL -7.37 GP 33.21 ZAL 165.71 ZAP 92.97 ETS 3.72 ZAE 144.65 ETE 116.60 ZAC 96.61 ETC 159.97 CLP -93.55

PLANETOCENTRIC CONIC

C3 55.391 VHL 7.443 DLA -5.75 RAL 5.26 RAD 6569.0 VEL 13.295 PTH 2.43 VHP 4.679 DPA 32.34 RAP 357.98 ECC 1.9116
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 12 10 2288.69 -21.30 46.23 242.37 109.12 1 50 19 1688.7 -18.49 38.68
 90.00 11 44 16 5290.98 27.18 239.70 246.84 81.73 13 12 27 4691.0 25.75 231.32
 100.00 2 30 48 2035.07 -22.64 27.07 241.85 110.06 3 4 43 1435.1 -19.70 19.50
 100.00 13 8 20 5019.83 28.59 219.52 246.59 80.87 14 32 0 4419.8 27.03 211.06
 110.00 3 32 48 1840.92 -26.23 10.78 240.30 112.74 4 3 29 1240.9 -22.92 3.19
 110.00 14 22 48 4786.75 32.39 201.01 245.79 78.41 15 42 35 4186.7 30.45 192.33

DIFFERENTIAL CORRECTIONS

TOE -.5798 TRA -1.0331 TC3 -.3386 BAU .3854
 RDE -.1191 RRA .4220 RC3 .3952 FAU .10421
 FDE -1.5790 FRA -1.0619 FC3 -1.6288 BSP 3198
 BOE .5919 BRA 1.1160 BC3 .5204 FSP -754

MID-COURSE EXECUTION ACCURACY

SGT 1045.1 SGR 679.0 SG3 244.8
 RRT -.7279 RRF -.8227 RTF .8175
 SGB 1246.3 R23 .1672 R13 -.8663
 SG1 1175.5 SG2 413.9 THA 150.71

ORBIT DETERMINATION ACCURACY

ST 506.9 SR 135.3 SS 502.3
 CRT .2504 CRS -.5117 CST -.9571
 LSA 707.9 MSA 161.3 SSA 20.7
 EL1 508.1 EL2 130.7 ALF 4.10

LAUNCH DATE MAR 11 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 258.065

RL 148.62 LAL .00 LOL 170.25 VL 29.162 GAL -13.20 AZL 92.16 MCA 119.73 SMA 141.87 ECC .23296 INC 2.1642 V1 29.980
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.755 GAP .95 AZP 88.93 TAL 245.32 TAP 5.05 RCA 108.82 APO 174.92 V2 34.799
 RC 90.065 GL -8.36 GP 34.05 ZAL 164.83 ZAP 96.82 ETS 6.34 ZAE 142.51 ETE 120.86 ZAC 95.11 ETC 160.71 CLP -98.25

PLANETOCENTRIC CONIC

C3 54.407 VHL 7.376 DLA -6.50 RAL 6.04 RAD 6569.0 VEL 13.258 PTH 2.42 VHP 4.708 DPA 32.44 RAP 356.18 ECC 1.8954
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 20 59 2260.72 -20.66 44.43 242.65 109.81 1 58 39 1660.7 -17.77 36.94
 90.00 11 41 41 5310.10 27.36 241.07 247.64 82.40 13 10 11 4710.1 26.02 232.66
 100.00 2 39 14 2008.29 -22.00 25.33 242.12 110.76 3 12 42 1408.3 -18.98 17.84
 100.00 13 6 7 5037.77 28.77 220.82 247.41 81.53 14 30 5 4437.8 27.30 212.32
 110.00 3 40 24 1816.76 -25.59 9.20 240.52 113.48 4 10 41 1216.8 -22.19 1.70
 110.00 14 21 26 4802.06 32.59 202.16 246.65 79.07 15 41 28 4202.1 30.74 193.43

DIFFERENTIAL CORRECTIONS

TDE -.6478 TRA-1.0946 TC3 -.4039 BAU .4184
 RDE -.0898 RRA .4039 RC3 .4095 FAU .10241
 FDE-1.6052 FRA-1.0007 FC3-1.6295 BSP 3561
 BDE .6540 BRA 1.1667 BC3 .5752 FSP -757

MID-COURSE EXECUTION ACCURACY

SGT 1157.8 SGR 685.3 SG3 243.5
 RRT -.7501 RRF -.8347 RTF .8363
 SGB 1345.4 R23 .1758 R13 -.8757
 SG1 1281.6 SG2 409.4 THA 153.10

ORBIT DETERMINATION ACCURACY

ST 565.2 SR 119.0 SS 517.0
 CRT .1556 CRS -.4195 CST -.9592
 LSA 758.9 MSA 156.5 SSA 20.5
 EL1 565.5 EL2 117.5 ALF 1.96

LAUNCH DATE MAR 11 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 264.266

RL 148.62 LAL .00 LOL 170.25 VL 29.108 GAL -13.03 AZL 92.42 MCA 122.88 SMA 141.39 ECC .23089 INC 2.4203 V1 29.980
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.710 GAP 1.38 AZP 88.69 TAL 244.50 TAP 7.38 RCA 108.74 APO 174.03 V2 34.795
 RC 92.449 GL -9.43 GP 34.89 ZAL 163.85 ZAP 100.42 ETS 8.99 ZAE 140.33 ETE 124.52 ZAC 93.79 ETC 161.36 CLP -102.74

PLANETOCENTRIC CONIC

C3 53.462 VHL 7.312 DLA -7.29 RAL 6.89 RAD 6568.9 VEL 13.222 PTH 2.42 VHP 4.760 DPA 32.64 RAP 354.56 ECC 1.8798
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 30 31 2231.15 -19.97 42.53 243.03 110.51 2 7 42 1631.1 -17.00 35.12
 90.00 11 38 59 5331.01 27.54 242.58 248.55 83.13 13 7 50 4731.0 26.30 234.13
 100.00 2 48 22 1980.01 -21.31 23.52 242.48 111.48 3 21 22 1380.0 -18.20 16.10
 100.00 13 3 49 5057.39 28.96 222.25 248.35 82.25 14 28 6 4457.4 27.59 213.71
 110.00 3 48 38 1791.33 -24.89 7.56 240.84 114.23 4 18 29 1191.3 -21.40 .14
 110.00 14 20 3 4818.83 32.80 203.43 247.64 79.79 15 40 21 4218.8 31.04 194.65

DIFFERENTIAL CORRECTIONS

TDE -.7216 TRA-1.1529 TC3 -.4701 BAU .4511
 RDE -.0613 RRA .3811 RC3 .4210 FAU .09959
 FDE-1.6170 FRA -.9258 FC3-1.6127 BSP 3915
 BDE .7242 BRA 1.2143 BC3 .6311 FSP -745

MID-COURSE EXECUTION ACCURACY

SGT 1273.6 SGR 687.1 SG3 239.8
 RRT -.7661 RRF -.8451 RTF .8499
 SGB 1447.1 R23 .1863 R13 -.8824
 SG1 1389.3 SG2 404.8 THA 155.31

ORBIT DETERMINATION ACCURACY

ST 628.3 SR 104.0 SS 529.6
 CRT .0324 CRS -.2970 CST -.9613
 LSA 814.2 MSA 151.2 SSA 20.3
 EL1 628.4 EL2 103.9 ALF .32

LAUNCH DATE MAR 11 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 270.432

RL 148.62 LAL .00 LOL 170.25 VL 29.050 GAL -12.86 AZL 92.70 MCA 126.04 SMA 140.88 ECC .22886 INC 2.6953 V1 29.980
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.663 GAP 1.79 AZP 88.41 TAL 243.60 TAP 9.64 RCA 108.64 APO 173.12 V2 34.791
 RC 94.840 GL -10.58 GP 35.75 ZAL 162.76 ZAP 103.73 ETS 11.71 ZAE 138.13 ETE 127.65 ZAC 92.64 ETC 161.92 CLP -107.01

PLANETOCENTRIC CONIC

C3 52.566 VHL 7.250 DLA -8.15 RAL 7.84 RAD 6568.9 VEL 13.188 PTH 2.41 VHP 4.832 DPA 32.95 RAP 353.11 ECC 1.8651
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 40 57 2199.57 -19.20 40.53 243.51 111.22 2 17 36 1599.6 -16.15 33.19
 90.00 11 36 4 5354.22 27.72 244.25 249.59 83.95 13 5 18 4754.2 26.59 235.77
 100.00 2 58 21 1949.86 -20.54 21.60 242.94 112.20 3 30 51 1349.9 -17.35 14.26
 100.00 13 1 21 5079.17 29.15 223.84 249.41 83.07 14 26 0 4479.2 27.89 215.26
 110.00 3 57 37 1764.30 -24.12 5.83 241.25 114.99 4 27 1 1164.3 -20.55 358.51
 110.00 14 18 34 4837.49 33.02 204.84 248.76 80.60 15 39 12 4237.5 31.37 196.00

DIFFERENTIAL CORRECTIONS

TDE -.8023 TRA-1.2077 TC3 -.5368 BAU .4838
 RDE -.0315 RRA .3556 RC3 .4311 FAU .09622
 FDE-1.6239 FRA -.8470 FC3-1.5846 BSP 4294
 BDE .8029 BRA 1.2589 BC3 .6885 FSP -735

MID-COURSE EXECUTION ACCURACY

SGT 1391.9 SGR 687.0 SG3 234.8
 RRT -.7785 RRF -.8551 RTF .8604
 SGB 1552.2 R23 .1979 R13 -.8878
 SG1 1499.7 SG2 400.2 THA 157.27

ORBIT DETERMINATION ACCURACY

ST 697.3 SR 90.7 SS 543.2
 CRT -.1466 CRS -.1136 CST -.9633
 LSA 876.2 MSA 145.8 SSA 19.9
 EL1 697.4 EL2 89.7 ALF 178.89

LAUNCH DATE MAR 11 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 276.567

RL 148.62 LAL .00 LOL 170.25 VL 28.988 GAL -12.68 AZL 92.99 MCA 129.19 SMA 140.34 ECC .22687 INC 2.9931 V1 29.980
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.614 GAP 2.18 AZP 88.11 TAL 242.63 TAP 11.82 RCA 108.50 APO 172.18 V2 34.788
 RC 97.236 GL -11.85 GP 36.67 ZAL 161.54 ZAP 106.75 ETS 14.48 ZAE 135.94 ETE 130.30 ZAC 91.66 ETC 162.37 CLP -111.06

PLANETOCENTRIC CONIC

C3 51.734 VHL 7.193 DLA -9.08 RAL 8.87 RAD 6568.9 VEL 13.157 PTH 2.40 VHP 4.924 DPA 33.39 RAP 351.82 ECC 1.8514
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 52 25 2165.52 -18.35 38.40 244.11 111.95 2 28 30 1565.5 -15.21 31.13
 90.00 11 32 49 5380.35 27.89 246.14 250.78 84.88 13 2 29 4780.4 26.89 237.62
 100.00 3 9 19 1917.41 -19.69 19.57 243.52 112.95 3 41 17 1317.4 -16.42 12.31
 100.00 12 58 36 5103.70 29.34 225.64 250.62 84.00 14 23 39 4503.7 28.20 217.02
 110.00 4 7 28 1735.33 -23.28 4.01 241.78 115.77 4 36 23 1135.3 -19.62 356.78
 110.00 14 16 56 4858.54 33.24 206.44 250.04 81.52 15 37 55 4258.5 31.71 197.55

DIFFERENTIAL CORRECTIONS

TDE -.8903 TRA-1.2577 TC3 -.6030 BAU .5160
 RDE -.0011 RRA .3268 RC3 .4392 FAU .09226
 FDE-1.6236 FRA -.7633 FC3-1.5439 BSP 4678
 BDE .8903 BRA 1.2995 BC3 .7460 FSP -720

MID-COURSE EXECUTION ACCURACY

SGT 1511.6 SGR 684.6 SG3 228.3
 RRT -.7875 RRF -.8647 RTF .8683
 SGB 1659.4 R23 .2110 R13 -.8919
 SG1 1611.5 SG2 395.8 THA 159.05

ORBIT DETERMINATION ACCURACY

ST 772.2 SR 81.3 SS 556.6
 CRT -.3815 CRS .1388 CST -.9654
 LSA 944.8 MSA 140.4 SSA 19.5
 EL1 772.8 EL2 75.1 ALF 177.68

LAUNCH DATE MAR 11 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 282.670
 RL 148.62 LAL .00 LOL 170.25 VL 28.923 GAL -12.49 AZL 93.32 HCA 132.34 SMA 139.79 ECC .22492 INC 3.3189 V1 29.980
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.563 GAP 2.55 AZP 87.76 TAL 241.59 TAP 13.94 RCA 108.35 APO 171.23 V2 34.786
 RC 99.636 GL -13.24 GP 37.68 ZAL 160.18 ZAP 109.46 ETS 17.34 ZAE 133.76 ETE 132.53 ZAC 90.83 ETC 162.74 CLP-114.89

PLANETOCENTRIC CONIC

C3 50.984 VHL 7.140 DLA -10.11 RAL 10.00 RAD 6568.9 VEL 13.128 PTH 2.40 VHP 5.037 DPA 34.00 RAP 350.66 ECC 1.8391
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 5 10 2128.42 -17.39 36.10 244.85 112.71 2 40 38 1528.4 -14.16 28.91
 90.00 11 29 6 5410.19 28.05 248.31 252.14 85.96 12 59 16 4810.2 27.20 239.75
 100.00 3 21 30 1882.13 -18.74 17.38 244.24 113.72 3 52 52 1282.1 -15.38 10.20
 100.00 12 55 27 5131.72 29.52 227.70 252.01 85.07 14 20 58 4531.7 28.52 219.04
 110.00 4 18 23 1704.00 -22.34 2.06 242.44 116.58 4 46 47 1104.0 -18.59 354.94
 110.00 14 15 3 4882.61 33.47 208.28 251.51 82.59 15 36 25 4282.6 32.08 199.33

DIFFERENTIAL CORRECTIONS

TDE -1.9859 TRA-1.3012 TC3 -.6674 BAU .5466
 RDE .0294 RRA .2937 RC3 .4446 FAU .08765
 FDE-1.6142 FRA -.6723 FC3-1.4883 BSP 5038
 BDE .9863 BRA 1.3340 BC3 .8019 FSP -693

MID-COURSE EXECUTION ACCURACY

SGT 1630.7 SGR 678.9 SG3 220.2
 RRT -.7928 RRF -.8733 RTF .8738
 SGB 1766.4 R23 .2259 R13 -.8946
 SG1 1722.4 SG2 391.8 THA 160.70

ORBIT DETERMINATION ACCURACY

ST 853.2 SR 78.0 SS 568.9
 CRT -.6322 CRS .4274 CST -.9673
 LSA 1019.3 MSA 135.4 SSA 18.8
 EL1 854.6 EL2 60.3 ALF 176.68

LAUNCH DATE MAR 11 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 288.745
 RL 148.62 LAL .00 LOL 170.25 VL 28.857 GAL -12.30 AZL 93.68 HCA 135.49 SMA 139.23 ECC .22302 INC 3.6792 V1 29.980
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.512 GAP 2.90 AZP 87.37 TAL 240.50 TAP 15.99 RCA 108.17 APO 170.28 V2 34.784
 RC 102.038 GL -14.77 GP 38.81 ZAL 158.67 ZAP 111.84 ETS 20.29 ZAE 131.57 ETE 134.39 ZAC 90.13 ETC 163.00 CLP-118.52

PLANETOCENTRIC CONIC

C3 50.343 VHL 7.095 DLA -11.25 RAL 11.24 RAD 6568.9 VEL 13.104 PTH 2.39 VHP 5.172 DPA 34.79 RAP 349.60 ECC 1.8285
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 19 28 2087.56 -16.30 33.60 245.76 113.48 2 54 15 1487.6 -12.98 26.49
 90.00 11 24 44 5444.75 28.19 250.83 253.71 87.22 12 55 28 4844.7 27.51 242.23
 100.00 3 35 9 1843.39 -17.67 15.01 245.12 114.51 4 5 52 1243.4 -14.21 7.92
 100.00 12 51 44 5164.16 29.69 230.10 253.61 86.32 14 17 48 4564.2 28.86 221.39
 110.00 4 30 34 1669.80 -21.28 359.97 243.26 117.41 4 58 24 1069.8 -17.44 352.95
 110.00 14 12 47 4910.50 33.69 210.43 253.21 83.84 15 34 38 4310.5 32.47 201.41

DIFFERENTIAL CORRECTIONS

TDE-1.0923 TRA-1.3389 TC3 -.7303 BAU .5768
 RDE .0621 RRA .2583 RC3 .4486 FAU .08281
 FDE-1.6045 FRA -.5832 FC3-1.4241 BSP 5428
 BDE 1.0941 BRA 1.3635 BC3 .8570 FSP -669

MID-COURSE EXECUTION ACCURACY

SGT 1751.3 SGR 673.0 SG3 211.5
 RRT -.7961 RRF -.8822 RTF .8785
 SGB 1876.2 R23 .2417 R13 -.8970
 SG1 1835.5 SG2 388.6 THA 162.16

ORBIT DETERMINATION ACCURACY

ST 942.5 SR 83.4 SS 583.2
 CRT -.8391 CRS .6925 CST -.9694
 LSA 1103.6 MSA 130.9 SSA 18.0
 EL1 945.1 EL2 45.2 ALF 175.74

LAUNCH DATE MAR 11 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 294.792
 RL 148.62 LAL .00 LOL 170.25 VL 28.788 GAL -12.10 AZL 94.08 HCA 138.64 SMA 138.65 ECC .22118 INC 4.0821 V1 29.980
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.459 GAP 3.23 AZP 86.93 TAL 239.35 TAP 17.99 RCA 107.98 APO 169.31 V2 34.783
 RC 104.441 GL -16.49 GP 40.09 ZAL 156.97 ZAP 113.88 ETS 23.38 ZAE 129.37 ETE 135.93 ZAC 89.52 ETC 163.18 CLP-121.95

PLANETOCENTRIC CONIC

C3 49.847 VHL 7.060 DLA -12.53 RAL 12.62 RAD 6568.8 VEL 13.085 PTH 2.39 VHP 5.332 DPA 35.79 RAP 348.58 ECC 1.8204
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 35 42 2042.04 -15.04 30.84 246.88 114.28 3 9 44 1442.0 -11.64 23.82
 90.00 11 19 28 5485.34 28.29 253.80 255.52 88.70 12 50 53 4885.3 27.81 245.16
 100.00 3 50 36 1800.38 -16.43 12.41 246.22 115.33 4 20 36 1200.4 -12.89 5.41
 100.00 12 47 15 5202.23 29.82 232.92 255.47 87.80 14 13 57 4602.2 29.20 224.17
 110.00 4 44 19 1632.14 -20.08 357.71 244.28 118.26 5 11 31 1032.1 -16.15 350.79
 110.00 14 10 1 4943.23 33.90 212.96 255.18 85.32 15 32 24 4343.2 32.88 203.87

DIFFERENTIAL CORRECTIONS

TDE-1.2109 TRA-1.3686 TC3 -.7899 BAU .6059
 RDE .0965 RRA .2193 RC3 .4503 FAU .07766
 FDE-1.5920 FRA -.4935 FC3-1.3488 BSP 5820
 BDE 1.2148 BRA 1.3861 BC3 .9092 FSP -643

MID-COURSE EXECUTION ACCURACY

SGT 1871.9 SGR 666.0 SG3 202.0
 RRT -.7968 RRF -.8908 RTF .8822
 SGB 1986.9 R23 .2585 R13 -.8989
 SG1 1948.9 SG2 386.5 THA 163.50

ORBIT DETERMINATION ACCURACY

ST 1040.8 SR 97.4 SS 598.4
 CRT -.9495 CRS .8615 CST -.9715
 LSA 1197.7 MSA 127.4 SSA 16.9
 EL1 1044.9 EL2 30.4 ALF 174.92

LAUNCH DATE MAR 11 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 300.813
 RL 148.62 LAL .00 LOL 170.25 VL 28.717 GAL -11.90 AZL 94.54 HCA 141.79 SMA 138.06 ECC .21938 INC 4.5387 V1 29.980
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.406 GAP 3.55 AZP 86.43 TAL 238.15 TAP 19.94 RCA 107.77 APO 168.35 V2 34.783
 RC 106.844 GL -18.41 GP 41.56 ZAL 155.07 ZAP 115.56 ETS 26.61 ZAE 127.14 ETE 137.20 ZAC 88.99 ETC 163.29 CLP-125.21

PLANETOCENTRIC CONIC

C3 49.549 VHL 7.039 DLA -13.97 RAL 14.15 RAD 6568.8 VEL 13.073 PTH 2.39 VHP 5.519 DPA 37.01 RAP 347.56 ECC 1.8154
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 54 23 1990.66 -13.58 27.78 248.29 115.09 3 27 33 1390.7 -10.09 20.84
 90.00 11 12 58 5533.73 28.31 257.34 257.64 90.47 12 45 12 4933.7 28.08 248.68
 100.00 4 8 19 1752.07 -15.00 9.53 247.59 116.16 4 37 31 1152.1 -11.37 2.63
 100.00 12 41 42 5247.54 29.89 236.29 257.64 89.57 14 9 10 4647.5 29.51 227.50
 110.00 4 59 59 1590.26 -18.71 355.23 245.55 119.14 5 26 29 990.3 -14.68 348.43
 110.00 14 6 32 4982.11 34.08 215.99 257.50 87.11 15 29 34 4382.1 33.30 206.83

DIFFERENTIAL CORRECTIONS

TDE-1.3442 TRA-1.3881 TC3 -.8437 BAU .6328
 RDE .1317 RRA .1750 RC3 .4481 FAU .07208
 FDE-1.5746 FRA -.4010 FC3-1.2594 BSP 6180
 BDE 1.3507 BRA 1.3991 BC3 .9553 FSP -607

MID-COURSE EXECUTION ACCURACY

SGT 1990.9 SGR 656.5 SG3 191.2
 RRT -.7938 RRF -.8983 RTF .8850
 SGB 2096.3 R23 .2764 R13 -.9002
 SG1 2060.5 SG2 385.8 THA 164.78

ORBIT DETERMINATION ACCURACY

ST 1149.1 SR 117.5 SS 613.6
 CRT -.9882 CRS .9454 CST -.9735
 LSA 1301.9 MSA 125.1 SSA 15.6
 EL1 1155.0 EL2 17.9 ALF 174.23

LAUNCH DATE MAR 11 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 306.810

RL 148.62 LAL .00 LOL 170.25 VL 28.644 GAL -11.69 AZL 95.06 HCA 144.93 SMA 137.47 ECC .21764 INC 5.0639 V1 29.980
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.353 GAP 3.85 AZP 85.85 TAL 236.89 TAP 21.83 RCA 107.55 APO 167.38 V2 34.784
 RC 109.246 GL -20.60 GP 43.26 ZAL 152.91 ZAP 116.85 ETS 30.02 ZAE 124.83 ETE 138.25 ZAC 88.48 ETC 163.34 CLP-128.34

PLANETOCENTRIC CONIC

C3 49.525 VHL 7.037 CLA -15.63 RAL 15.86 RAD 6568.8 VEL 13.072 PTH 2.39 VHP 5.742 DPA 38.48 RAP 346.46 ECC 1.8151
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 16 14 1931.79 -11.86 24.32 250.06 115.90 3 48 26 1331.8 -8.28 17.47
 90.00 11 4 46 5592.36 28.21 261.62 260.11 92.62 12 37 59 4992.4 28.27 252.96
 100.00 4 28 58 1697.08 -13.33 6.31 249.31 117.01 4 57 16 1097.1 -9.60 359.50
 100.00 12 34 43 5302.29 29.85 240.36 260.18 91.72 14 3 5 4702.3 29.77 231.55
 110.00 5 18 5 1543.23 -17.13 352.50 247.17 120.04 5 43 49 943.2 -13.01 345.81
 110.00 14 2 5 5028.91 34.18 219.64 260.23 89.26 15 25 54 4428.9 33.70 210.43

DIFFERENTIAL CORRECTIONS

TDE-1.4986 TRA-1.3976 TC3 -.8913 BAU .6589
 RDE .1699 RRA .1268 RC3 .4428 FAU .06640
 FDE-1.5590 FRA -.3129 FC3-1.1607 BSP 6576
 BOE 1.5082 BRA 1.4034 BC3 .9952 FSP -574

MID-COURSE EXECUTION ACCURACY

SGT 2111.5 SGR 647.4 SG3 180.2
 RRT -.7881 RRF -.9052 RTF .8880
 SGB 2208.5 R23 .2937 R13 -.9020
 SG1 2174.4 SG2 387.0 THA 165.96

ORBIT DETERMINATION ACCURACY

ST 1271.1 SR 143.2 SS 631.4
 CRT -.9934 CRS .9821 CST -.9758
 LSA 1421.0 MSA 124.1 SSA 14.1
 EL1 1279.1 EL2 16.3 ALF 173.61

LAUNCH DATE MAR 11 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 312.783

RL 148.62 LAL .00 LOL 170.25 VL 28.571 GAL -11.47 AZL 95.68 HCA 148.08 SMA 136.87 ECC .21596 INC 5.6782 V1 29.980
 RP 108.94 LAP -3.00 LOP 318.45 VP 38.299 GAP 4.14 AZP 85.18 TAL 235.60 TAP 23.67 RCA 107.31 APO 166.43 V2 34.785
 RC 111.645 GL -23.09 GP 45.25 ZAL 150.44 ZAP 117.73 ETS 33.64 ZAE 122.41 ETE 139.12 ZAC 87.95 ETC 163.37 CLP-131.37

PLANETOCENTRIC CONIC

C3 49.889 VHL 7.063 CLA -17.53 RAL 17.80 RAD 6568.8 VEL 13.086 PTH 2.39 VHP 6.009 DPA 40.21 RAP 345.19 ECC 1.8211
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 42 21 1863.00 -9.78 20.33 252.33 116.71 4 13 24 1263.0 -6.12 13.56
 90.00 10 54 7 5664.80 27.87 266.89 263.02 95.24 12 28 32 5064.8 28.30 258.25
 100.00 4 53 30 1633.43 -11.33 2.64 251.92 117.85 5 20 43 1033.4 -7.52 355.93
 100.00 12 25 40 5369.60 29.61 245.34 263.18 94.33 13 55 9 4769.6 29.89 236.55
 110.00 5 39 20 1489.79 -15.28 349.46 249.23 120.95 6 4 10 889.8 -11.07 342.89
 110.00 13 56 18 5086.01 34.14 224.10 263.47 91.90 15 21 4 4486.0 34.02 214.85

DIFFERENTIAL CORRECTIONS

TDE-1.6798 TRA-1.3934 TC3 -.9285 BAU .6831
 RDE .2097 RRA .0723 RC3 .4322 FAU .06047
 FDE-1.5425 FRA -.2267 FC3-1.0493 BSP 6972
 BOE 1.6928 BRA 1.3953 BC3 1.0241 FSP -539

MID-COURSE EXECUTION ACCURACY

SGT 2232.1 SGR 636.8 SG3 168.4
 RRT -.7778 RRF -.9101 RTF .8912
 SGB 2321.1 R23 .3101 R13 -.9040
 SG1 2288.0 SG2 390.4 THA 167.11

ORBIT DETERMINATION ACCURACY

ST 1408.8 SR 172.1 SS 650.7
 CRT -.9862 CRS .9956 CST -.9782
 LSA 1556.3 MSA 124.6 SSA 12.4
 EL1 1419.0 EL2 28.3 ALF 173.13

LAUNCH DATE MAR 11 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 318.733

RL 148.62 LAL .00 LOL 170.25 VL 28.496 GAL -11.25 AZL 96.41 HCA 151.22 SMA 136.27 ECC .21433 INC 6.4114 V1 29.980
 RP 108.93 LAP -3.08 LOP 321.61 VP 38.246 GAP 4.42 AZP 84.38 TAL 234.25 TAP 25.47 RCA 107.07 APO 165.48 V2 34.787
 RC 114.042 GL -25.96 GP 47.58 ZAL 147.60 ZAP 118.13 ETS 37.51 ZAE 119.82 ETE 139.90 ZAC 87.33 ETC 163.41 CLP-134.35

PLANETOCENTRIC CONIC

C3 50.820 VHL 7.129 CLA -19.72 RAL 20.02 RAD 6568.9 VEL 13.122 PTH 2.40 VHP 6.337 DPA 42.22 RAP 343.62 ECC 1.8364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 27 1780.34 -7.22 15.61 255.32 117.46 4 44 8 1180.3 -3.48 8.92
 90.00 10 39 45 5756.67 27.12 273.51 266.42 98.48 12 15 42 5156.7 28.01 264.96
 100.00 5 23 20 1558.08 -8.90 358.37 254.41 118.65 5 49 18 958.1 -5.01 351.74
 100.00 12 13 33 5454.17 29.01 251.56 266.72 97.55 13 44 28 4854.2 29.75 242.83
 110.00 6 4 46 1428.24 -13.10 346.03 251.91 121.86 6 28 34 828.2 -8.79 339.58
 110.00 13 48 37 5156.76 33.84 229.60 267.35 95.15 15 14 34 4556.8 34.18 220.37

DIFFERENTIAL CORRECTIONS

TDE-1.8960 TRA-1.3707 TC3 -.9498 BAU .7038
 RDE .2489 RRA .0085 RC3 .4133 FAU .05418
 FDE-1.5223 FRA -.1404 FC3 -.9230 BSP 7331
 BOE 1.9123 BRA 1.3707 BC3 1.0359 FSP -496

MID-COURSE EXECUTION ACCURACY

SGT 2350.7 SGR 622.3 SG3 155.6
 RRT -.7597 RRF -.9111 RTF .8946
 SGB 2431.7 R23 .3252 R13 -.9062
 SG1 2399.1 SG2 396.5 THA 168.30

ORBIT DETERMINATION ACCURACY

ST 1564.3 SR 200.9 SS 670.6
 CRT -.9750 CRS .9983 CST -.9806
 LSA 1709.1 MSA 126.6 SSA 10.5
 EL1 1576.6 EL2 44.3 ALF 172.86

LAUNCH DATE MAR 11 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 324.659

RL 148.62 LAL .00 LOL 170.25 VL 28.421 GAL -11.01 AZL 97.31 HCA 154.35 SMA 135.68 ECC .21277 INC 7.3072 V1 29.980
 RP 108.93 LAP -3.16 LOP 324.78 VP 38.192 GAP 4.68 AZP 83.41 TAL 232.87 TAP 27.22 RCA 106.81 APO 164.54 V2 34.790
 RC 116.435 GL -29.29 GP 50.32 ZAL 144.31 ZAP 118.02 ETS 41.70 ZAE 116.99 ETE 140.68 ZAC 86.56 ETC 163.55 CLP-137.38

PLANETOCENTRIC CONIC

C3 52.611 VHL 7.253 CLA -22.27 RAL 22.61 RAD 6568.9 VEL 13.190 PTH 2.41 VHP 6.751 DPA 44.52 RAP 341.57 ECC 1.8658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 55 43 1676.25 -3.91 9.74 259.36 118.07 5 23 39 1076.2 -1.13 3.11
 90.00 10 19 9 5877.97 25.61 282.07 270.32 102.51 11 57 7 5278.0 27.08 273.71
 100.00 6 0 58 1465.66 -5.85 353.20 258.30 119.37 6 25 23 865.7 -1.89 346.65
 100.00 11 56 35 5563.78 27.77 259.47 270.83 101.53 13 29 19 4963.8 29.08 250.91
 110.00 6 35 55 1356.09 -10.47 342.09 255.48 122.73 6 58 31 756.1 -6.09 335.74
 110.00 13 38 8 5246.12 33.08 236.46 271.95 99.14 15 5 34 4646.1 33.99 227.34

DIFFERENTIAL CORRECTIONS

TDE-2.1644 TRA-1.3261 TC3 -.9510 BAU .7217
 RDE .2867 RRA -.0651 RC3 .3851 FAU .04778
 FDE-1.5037 FRA -.0603 FC3 -.7863 BSP 7721
 BOE 2.1833 BRA 1.3277 BC3 1.0260 FSP -455

MID-COURSE EXECUTION ACCURACY

SGT 2471.4 SGR 605.4 SG3 142.4
 RRT -.7319 RRF -.9057 RTF .8995
 SGB 2544.4 R23 .3361 R13 -.9099
 SG1 2511.8 SG2 405.9 THA 169.56

ORBIT DETERMINATION ACCURACY

ST 1743.6 SR 227.7 SS 693.1
 CRT -.9627 CRS .9953 CST -.9833
 LSA 1885.6 MSA 129.8 SSA 8.8
 EL1 1757.3 EL2 61.1 ALF 172.83

LAUNCH DATE MAR 11 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 330.562

RL 148.62 LAL .00 LOL 170.25 VL 28.345 GAL -10.77 AZL 98.43 MCA 157.48 SMA 135.08 ECC .21127 INC 8.4337 V1 29.980
 RP 108.91 LAP -3.22 LOP 327.95 VP 38.139 GAP 4.93 AZP 82.20 TAL 231.45 TAP 28.93 RCA 106.54 APO 163.62 V2 34.794
 RC 118.823 GL -33.16 GP 53.54 ZAL 140.47 ZAP 117.33 ETS 46.29 ZAE 113.82 ETE 141.60 ZAC 85.53 ETC 163.91 CLP-140.59

PLANETOCENTRIC CONIC

C3 55.764 VHL 7.468 OLA -25.22 RAL 25.69 RAD 6569.0 VEL 13.309 PTH 2.43 VHP 7.288 DPA 47.10 RAP 338.79 ECC 1.9177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 53 45 1530.50 .78 1.61 265.16 118.31 6 19 16 930.5 4.56 354.96
 90.00 9 45 40 764.43 22.51 316.00 274.49 107.65 9 58 25 164.4 24.71 308.02
 100.00 6 51 29 1344.11 -1.75 346.50 263.75 119.85 7 13 53 744.1 2.23 339.98
 100.00 11 30 38 5714.09 25.28 269.94 275.42 106.50 13 5 52 5114.1 27.30 261.72
 110.00 7 15 25 1269.04 -7.23 337.43 260.36 123.50 7 36 34 669.0 -2.78 331.17
 110.00 13 23 11 5361.93 31.50 245.12 277.35 104.03 14 52 33 4761.9 33.10 236.26

DIFFERENTIAL CORRECTIONS

TOE-2.5049 TRA-1.2479 TC3 -.9220 BAU .7333
 RDE .3131 RRA -.1548 RC3 .3426 FAU .04108
 FDE-1.4819 FRA .0175 FC3 -.6378 BSP 8073
 BDE 2.5244 BRA 1.2575 BC3 .9836 FSP -407

MID-COURSE EXECUTION ACCURACY

SGT 2590.4 SGR 580.3 SG3 128.2
 RRT -.6835 RRF -.8858 RTF .9060
 SGB 2654.6 R23 .3423 R13 -.9149
 SG1 2621.4 SG2 418.6 THA 171.07

ORBIT DETERMINATION ACCURACY

ST 1948.4 SR 244.0 SS 716.2
 CRT -.9465 CRS .9868 CST -.9860
 LSA 2085.8 MSA 134.2 SSA 7.1
 EL1 1962.1 EL2 78.2 ALF 173.23

LAUNCH DATE MAR 11 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 336.440

RL 148.62 LAL .00 LOL 170.25 VL 28.269 GAL -10.52 AZL 99.90 MCA 160.60 SMA 134.49 ECC .20981 INC 9.9020 V1 29.980
 RP 108.90 LAP -3.27 LOP 331.12 VP 38.086 GAP 5.17 AZP 80.65 TAL 229.98 TAP 30.58 RCA 106.27 APO 162.71 V2 34.798
 RC 121.206 GL -37.65 GP 57.32 ZAL 135.96 ZAP 115.98 ETS 51.47 ZAE 110.21 ETE 142.96 ZAC 84.12 ETC 164.75 CLP-144.24

PLANETOCENTRIC CONIC

C3 61.215 VHL 7.824 OLA -28.61 RAL 29.43 RAD 6569.1 VEL 13.512 PTH 2.47 VHP 8.015 DPA 49.88 RAP 334.90 ECC 2.0074
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 85.77 7 29 13 1285.05 12.19 349.63 276.08 116.08 7 50 38 685.0 15.60 342.59
 94.23 8 40 5 1055.48 12.20 332.82 276.09 116.07 8 57 41 455.5 15.61 325.78
 100.00 8 12 27 1144.67 4.99 335.54 272.25 119.51 8 31 32 544.7 8.89 328.92
 100.00 10 39 32 671.10 19.60 308.00 279.60 113.03 10 50 43 71.1 22.55 300.44
 110.00 8 8 17 1157.74 -3.02 331.57 267.30 124.07 8 27 35 557.7 1.47 325.37
 110.00 13 0 11 5518.83 28.36 256.25 283.37 109.93 14 32 10 4918.8 30.81 247.91

DIFFERENTIAL CORRECTIONS

TOE-2.9573 TRA-1.1228 TC3 -.8547 BAU .7370
 RDE .3107 RRA -.2637 RC3 .2836 FAU .03429
 FDE-1.4625 FRA .0882 FC3 -.4849 BSP 8460
 BDE 2.9736 BRA 1.1533 BC3 .9005 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 2712.2 SGR 545.1 SG3 113.6
 RRT -.5955 RRF -.8327 RTF .9154
 SGB 2766.4 R23 .3396 R13 -.9226
 SG1 2732.0 SG2 434.7 THA 173.00

ORBIT DETERMINATION ACCURACY

ST 2184.2 SR 237.3 SS 742.0
 CRT -.9161 CRS .9654 CST -.9888
 LSA 2314.8 MSA 139.0 SSA 5.5
 EL1 2195.0 EL2 94.7 ALF 174.31

LAUNCH DATE MAR 11 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 342.286

RL 148.62 LAL .00 LOL 170.25 VL 28.193 GAL -10.26 AZL 101.91 MCA 163.71 SMA 133.91 ECC .20840 INC 11.9070 V1 29.980
 RP 108.89 LAP -3.32 LOP 334.28 VP 38.034 GAP 5.39 AZP 78.56 TAL 228.48 TAP 32.19 RCA 106.00 APO 161.81 V2 34.803
 RC 123.581 GL -42.84 GP 61.75 ZAL 130.65 ZAP 113.90 ETS 57.68 ZAE 105.99 ETE 145.28 ZAC 82.16 ETC 166.59 CLP-148.87

PLANETOCENTRIC CONIC

C3 70.852 VHL 8.417 OLA -32.40 RAL 34.11 RAD 6569.4 VEL 13.864 PTH 2.53 VHP 9.050 DPA 52.70 RAP 329.31 ECC 2.1661
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.55 6 15 57 1612.79 12.48 14.22 283.68 120.15 6 42 50 1012.8 16.39 7.43
 106.45 10 30 39 797.73 12.49 313.78 283.69 120.14 10 43 57 197.7 16.41 307.00
 73.55 6 15 57 1612.79 12.48 14.22 283.68 120.15 6 42 50 1012.8 16.39 7.43
 106.45 10 30 39 797.73 12.49 313.78 283.69 120.14 10 43 57 197.7 16.41 307.00
 110.00 9 29 45 986.06 3.54 322.61 278.03 124.02 9 46 11 386.1 7.98 316.34
 110.00 12 16 2 5760.50 21.76 271.90 288.96 117.04 13 52 3 5160.5 25.20 264.45

DIFFERENTIAL CORRECTIONS

TOE-3.5795 TRA -.9171 TC3 -.7371 BAU .7247
 RDE .2245 RRA -.3988 RC3 .2052 FAU .02738
 FDE-1.4464 FRA .1545 FC3 -.3345 BSP 8837
 BDE 3.5866 BRA 1.0000 BC3 .7651 FSP -313

MID-COURSE EXECUTION ACCURACY

SGT 2832.5 SGR 496.0 SG3 98.6
 RRT -.4009 RRF -.6803 RTF .9299
 SGB 2875.6 R23 .3249 R13 -.9337
 SG1 2839.7 SG2 453.3 THA 175.88

ORBIT DETERMINATION ACCURACY

ST 2446.9 SR 181.0 SS 770.5
 CRT -.7932 CRS .8647 CST -.9917
 LSA 2567.7 MSA 143.7 SSA 4.2
 EL1 2451.1 EL2 110.0 ALF 176.64

LAUNCH DATE MAR 11 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 348.091

RL 148.62 LAL .00 LOL 170.25 VL 28.116 GAL -9.99 AZL 104.82 MCA 166.78 SMA 133.33 ECC .20700 INC 14.8212 V1 29.980
 RP 108.87 LAP -3.35 LOP 337.45 VP 37.983 GAP 5.60 AZP 75.55 TAL 226.93 TAP 33.72 RCA 105.73 APO 160.93 V2 34.808
 RC 125.948 GL -48.68 GP 66.85 ZAL 124.47 ZAP 111.02 ETS 65.99 ZAE 100.91 ETE 149.78 ZAC 79.37 ETC 170.65 CLP-155.84

PLANETOCENTRIC CONIC

C3 88.957 VHL 9.432 OLA -36.43 RAL 40.10 RAD 6569.7 VEL 14.502 PTH 2.63 VHP 10.622 DPA 55.17 RAP 321.24 ECC 2.4640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.06 5 55 13 1800.84 11.85 28.52 293.57 124.70 6 25 14 1200.8 16.31 22.09
 113.94 11 39 14 714.00 11.86 306.83 293.58 124.70 11 51 8 114.0 16.33 300.40
 66.06 5 55 13 1800.84 11.85 28.52 293.57 124.70 6 25 14 1200.8 16.31 22.09
 113.94 11 39 14 714.00 11.86 306.83 293.58 124.70 11 51 8 114.0 16.33 300.40
 66.06 5 55 13 1800.84 11.85 28.52 293.57 124.70 6 25 14 1200.8 16.31 22.09
 113.94 11 39 14 714.00 11.86 306.83 293.58 124.70 11 51 8 114.0 16.33 300.40

DIFFERENTIAL CORRECTIONS

TOE-4.4623 TRA -.5613 TC3 -.5612 BAU .6802
 RDE -.1103 RRA -.5574 RC3 .1105 FAU .02036
 FDE-1.4434 FRA .2212 FC3 -.1982 BSP 9157
 BDE 4.4636 BRA .7910 BC3 .5720 FSP -263

MID-COURSE EXECUTION ACCURACY

SGT 2940.8 SGR 474.4 SG3 83.6
 RRT .0999 RRF -.1948 RTF .9494
 SGB 2978.8 R23 -.2936 R13 .9486
 SG1 2941.2 SG2 472.0 THA .95

ORBIT DETERMINATION ACCURACY

ST 2713.9 SR 143.1 SS 806.1
 CRT .5087 CRS -.4167 CST -.9946
 LSA 2830.9 MSA 147.4 SSA 3.2
 EL1 2714.9 EL2 123.1 ALF 1.54

LAUNCH DATE MAR 11 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 28.040 GAL -9.70 AZL 109.45 MCA 169.81 SMA 132.75 ECC .20556 INC19.4474 V1 29.980
 RP 108.85 LAP -3.38 LOP 340.63 VP 37.932 GAP 5.78 AZP 70.84 TAL 225.33 TAP 35.14 RCA 105.47 APO 160.04 V2 34.815
 RC 128.306 GL -54.78 GP 72.34 ZAL 117.40 ZAP 107.33 ETS 79.42 ZAE 94.58 ETE 159.65 ZAC 75.29 ETC 180.11 CLP-169.10

PLANETOCENTRIC CONIC
 C3 126.880 VHL 11.264 OLA -40.11 RAL 47.93 RAD 6570.3 VEL 15.755 PTH 2.80 VHP 13.224 DPA 56.44 RAP 309.87 ECC 3.0881
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.31 5 57 57 1957.35 9.71 39.79 306.19 129.11 6 30 35 1357.4 14.69 33.80
 119.69 12 38 53 705.85 9.73 304.53 306.20 129.11 12 50 39 105.8 14.71 298.53
 60.31 5 57 57 1957.35 9.71 39.79 306.19 129.11 6 30 35 1357.4 14.69 33.80
 119.69 12 38 53 705.85 9.73 304.53 306.20 129.11 12 50 39 105.8 14.71 298.53
 60.31 5 57 57 1957.35 9.71 39.79 306.19 129.11 6 30 35 1357.4 14.69 33.80
 119.69 12 38 53 705.85 9.73 304.53 306.20 129.11 12 50 39 105.8 14.71 298.53

DIFFERENTIAL CORRECTIONS
 TDE-5.6558 TRA .1029 TC3 -.3329 BAU .5658 SGT 2973.8 SGR 777.9 SG3 69.7 ST 2877.0 SR 655.2 SS 864.7
 RDE-1.2621 RRA -.6565 RC3 .0213 FAU .01323 RRT .7700 RRF .6176 RTF .9743 CRT .9783 CRS -.9609 CST -.9974
 FDE-1.4831 FRA .3001 FC3 -.0903 BSP 9503 SGB 3073.8 R23 -.2399 R13 .9669 LSA 3071.1 MSA 148.9 SSA 2.4
 BDE 5.7949 BRA .6645 BC3 .3336 FSP -219 SG1 3035.1 SG2 486.3 THA 11.69 EL1 2947.7 EL2 132.5 ALF 12.59

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 27.964 GAL -9.37 AZL 117.82 MCA 172.72 SMA 132.19 ECC .20389 INC27.8165 V1 29.980
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.882 GAP 5.93 AZP 62.37 TAL 223.65 TAP 36.37 RCA 105.24 APO 159.14 V2 34.821
 RC 130.653 GL -59.78 GP 76.23 ZAL 109.67 ZAP 102.91 ETS 106.21 ZAE 86.07 ETE 183.22 ZAC 68.89 ETC 203.44 CLP 159.82

PLANETOCENTRIC CONIC
 C3 221.994 VHL 14.899 OLA -41.97 RAL 57.89 RAD 6571.3 VEL 18.529 PTH 3.05 VHP 18.082 DPA 54.69 RAP 295.33 ECC 4.6535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.62 6 25 53 2085.47 5.80 47.46 321.39 131.64 7 0 38 1485.5 11.08 41.79
 122.38 13 30 29 768.24 5.82 306.54 321.40 131.64 13 43 17 168.2 11.09 300.87
 57.62 6 25 53 2085.47 5.80 47.46 321.39 131.64 7 0 38 1485.5 11.08 41.79
 122.38 13 30 29 768.24 5.82 306.54 321.40 131.64 13 43 17 168.2 11.09 300.87
 57.62 6 25 53 2085.47 5.80 47.46 321.39 131.64 7 0 38 1485.5 11.08 41.79
 122.38 13 30 29 768.24 5.82 306.54 321.40 131.64 13 43 17 168.2 11.09 300.87

DIFFERENTIAL CORRECTIONS
 TDE-6.0530 TRA 1.3421 TC3 -.0931 BAU .2770 SGT 2444.8 SGR 1966.8 SG3 57.8 ST 2337.0 SR 1966.2 SS 984.7
 RDE-5.1127 RRA -.0900 RC3 .0068 FAU .00457 RRT .9439 RRF .9268 RTF .9976 CRT .9954 CRS -.9932 CST -.9998
 FDE-1.6293 FRA .4437 FC3 -.0178 BSP 9632 SGB 3137.7 R23 -.1746 R13 .9832 LSA 3205.1 MSA 155.5 SSA 1.7
 BDE 7.9234 BRA 1.3452 BC3 .0933 FSP -180 SG1 3095.5 SG2 513.0 THA 38.46 EL1 3050.6 EL2 145.0 ALF 40.05

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 27.888 GAL -8.97 AZL 136.09 MCA 175.29 SMA 131.63 ECC .20141 INC46.0855 V1 29.980
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.833 GAP 5.97 AZP 44.01 TAL 221.76 TAP 37.05 RCA 105.12 APO 158.15 V2 34.829
 RC 132.989 GL -59.08 GP 70.50 ZAL 102.00 ZAP 98.16 ETS 147.63 ZAE 72.72 ETE 221.47 ZAC 57.21 ETC 242.12 CLP 115.16

PLANETOCENTRIC CONIC
 C3 535.089 VHL 23.132 OLA -38.08 RAL 68.81 RAD 6572.4 VEL 25.620 PTH 3.36 VHP 28.693 DPA 46.09 RAP 280.31 ECC 9.8062
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.39 7 35 56 2106.99 1.32 45.53 337.11 128.06 8 11 3 1507.0 6.23 39.62
 116.61 13 47 32 939.33 1.34 317.27 337.12 128.06 14 3 11 339.3 6.25 311.36
 63.39 7 35 56 2106.99 1.32 45.53 337.11 128.06 8 11 3 1507.0 6.23 39.62
 116.61 13 47 32 939.33 1.34 317.27 337.12 128.06 14 3 11 339.3 6.25 311.36
 63.39 7 35 56 2106.99 1.32 45.53 337.11 128.06 8 11 3 1507.0 6.23 39.62
 116.61 13 47 32 939.33 1.34 317.27 337.12 128.06 14 3 11 339.3 6.25 311.36

DIFFERENTIAL CORRECTIONS
 TDE -.9471 TRA 2.1400 TC3 -.0123 BAU .9427 SGT 715.4 SGR 3010.5 SG3 49.6 ST 309.6 SR 2803.4 SS 1259.6
 RDE-11.2582 RRA 3.0456 RC3 .1312 FAU-.01288 RRT .5873 RRF .9887 RTF .7018 CRT .8206 CRS -.9986 CST -.8493
 FDE-2.0267 FRA .8303 FC3 .0208 BSP 9410 SGB 3094.3 R23 -.1225 R13 .9925 LSA 3083.4 MSA 184.1 SSA .3
 BDE11.2979 BRA 3.7223 BC3 .1318 FSP -155 SG1 3040.7 SG2 573.2 THA 81.76 EL1 2814.9 EL2 176.2 ALF 84.80

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 27.812 GAL -8.30 AZL 178.35 MCA 176.61 SMA 131.09 ECC .19583 INC88.3490 V1 29.980
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.784 GAP 5.64 AZP 1.65 TAL 219.18 TAP 35.79 RCA 105.42 APO 156.76 V2 34.837
 RC 135.313 GL -42.98 GP 48.01 ZAL 96.37 ZAP 94.38 ETS 170.19 ZAE 49.12 ETE 237.70 ZAC 33.80 ETC 262.80 CLP 96.56

PLANETOCENTRIC CONIC
 C31628.491 VHL 40.355 OLA -20.45 RAL 75.68 RAD 6573.2 VEL 41.830 PTH 3.57 VHP 50.564 DPA 23.85 RAP 270.26 ECC27.8008
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 4 46 2204.12 -19.31 40.82 340.03 111.12 8 41 30 1604.1 -16.27 33.47
 90.00 14 13 29 953.59 18.10 328.12 354.54 112.15 14 29 22 353.6 20.95 320.60
 100.00 9 12 45 1984.73 -21.42 23.82 339.16 111.36 9 45 50 1384.7 -18.33 16.39
 100.00 15 48 11 648.21 20.20 306.56 355.45 112.51 15 58 59 48.2 23.08 298.95
 110.00 9 52 31 1860.11 -26.73 12.05 336.84 112.14 10 23 31 1260.1 -23.49 4.39
 110.00 17 24 55 5633.64 25.46 263.92 357.88 113.62 18 58 48 5033.6 28.43 256.00

DIFFERENTIAL CORRECTIONS
 TDE 4.7336 TRA .9081 TC3 -.0725 BAU 4.0340 SGT 901.8 SGR 2436.3 SG3 46.1 ST 673.6 SR 1667.0 SS 1564.3
 RDE-11.4700 RRA 7.7805 RC3 .1705 FAU-.06724 RRT -.7909 RRF .9984 RTF -.7558 CRT -.9624 CRS -.9997 CST .9550
 FDE-2.4490 FRA 1.8707 FC3 .0357 BSP 7789 SGB 2597.9 R23 -.1188 R13 .9929 LSA 2375.9 MSA 186.0 SSA .5
 BDE12.4084 BRA 7.8333 BC3 .1853 FSP -146 SG1 2543.5 SG2 528.6 THA 107.08 EL1 1789.8 EL2 170.4 ALF 111.45

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

RL 148.62 LAL .00 LOL 170.25 VL 27.737 GAL -9.02 AZL 42.38 MCA 184.56 SMA 130.55 ECC .20799 INC47.6223 V1 29.980
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.737 GAP 7.23 AZP 137.53 TAL 219.88 TAP 44.45 RCA 103.40 APO 157.70 V2 34.846
 RC 137.625 GL 58.35 GP -68.53 ZAL 101.67 ZAP 99.46 ETS 196.68 ZAE 76.22 ETE 124.58 ZAC 84.61 ETC 105.52 CLP 116.68

PLANETOCENTRIC CONIC

C3 565.185 VHL 23.774 DLA 73.18 RAL 13.54 RAD 6572.5 VEL 26.201 PTH 3.37 VHP 29.867 DPA -84.24 RAP 44.84 ECC10.3015
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 19.19 13 37 44 5056.92 -1.79 248.41 283.01 16.83 15 2 1 4456.9 -9.45 246.49
 160.81 0 24 47 3285.74 -1.79 94.57 282.98 16.83 1 19 32 2685.7 -9.44 92.64
 19.19 13 37 44 5056.92 -1.79 248.41 283.01 16.83 15 2 1 4456.9 -9.45 246.49
 160.81 0 24 47 3285.74 -1.79 94.57 282.98 16.83 1 19 32 2685.7 -9.44 92.64
 19.19 13 37 44 5056.92 -1.79 248.41 283.01 16.83 15 2 1 4456.9 -9.45 246.49
 160.81 0 24 47 3285.74 -1.79 94.57 282.98 16.83 1 19 32 2685.7 -9.44 92.64

DIFFERENTIAL CORRECTIONS

TOE 1.4111 TRA .5946 TC3 -.0380 BAU 1.1644 SGT 627.3 SGR 3225.4 SG3 50.3 ST 371.1 SR 2405.0 SS 1208.1
 RDE -9.6210 RRA 2.5540 RC3 -.1493 FAU -.01303 RRT .1942 RRF -.9945 RTF -.0956 CRT -.7771 CRS .9991 CST -.8034
 FDE 1.8932 FRA -.4195 FC3 .0200 BSP 9799 SGB 3285.9 R23 -.1068 R13 -.9937 LSA 2706.7 MSA 234.3 SSA 1.4
 BDE 9.7239 BRA 2.6223 BC3 .1541 FSP -159 SG1 3227.8 SG2 614.9 THA 87.76 EL1 2422.4 EL2 231.9 ALF 96.90

LAUNCH DATE MAR 11 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

RL 148.62 LAL .00 LOL 170.25 VL 27.663 GAL -8.58 AZL 61.82 MCA 187.09 SMA 130.02 ECC .20564 INC28.1761 V1 29.980
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.691 GAP 7.24 AZP 117.99 TAL 217.95 TAP 45.04 RCA 103.28 APO 156.76 V2 34.855
 RC 139.923 GL 60.03 GP -73.44 ZAL 107.93 ZAP 105.28 ETS 243.64 ZAE 90.31 ETE 169.94 ZAC 97.78 ETC 152.60 CLP 157.65

PLANETOCENTRIC CONIC

C3 222.276 VHL 14.909 DLA 68.17 RAL 354.32 RAD 6571.3 VEL 18.536 PTH 3.05 VHP 18.665 DPA -69.57 RAP 54.88 ECC 4.6581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 24.99 12 33 23 4941.60 -8.07 243.09 261.08 22.06 13 55 45 4341.6 -15.47 240.40
 155.01 22 51 52 3200.51 -8.06 95.30 261.06 22.06 23 45 13 2600.5 -15.46 92.61
 24.99 12 33 23 4941.60 -8.07 243.09 261.08 22.06 13 55 45 4341.6 -15.47 240.40
 155.01 22 51 52 3200.51 -8.06 95.30 261.06 22.06 23 45 13 2600.5 -15.46 92.61
 24.99 12 33 23 4941.60 -8.07 243.09 261.08 22.06 13 55 45 4341.6 -15.47 240.40
 155.01 22 51 52 3200.51 -8.06 95.30 261.06 22.06 23 45 13 2600.5 -15.46 92.61

DIFFERENTIAL CORRECTIONS

TOE 3.4121 TRA -2.0173 TC3 -.0686 BAU .2038 SGT 2471.2 SGR 2536.3 SG3 59.9 ST 1452.8 SR 991.6 SS 655.3
 RDE -1.7344 RRA 2.3680 RC3 .0014 FAU .00820 RRT -.9535 RRF -.9469 RTF .9985 CRT -.9254 CRS .9245 CST -1.0000
 FDE .9554 FRA -.5612 FC3 -.0319 BSP 10951 SGB 3541.1 R23 -.1731 R13 -.9835 LSA 1848.8 MSA 324.2 SSA 1.7
 BDE 3.8276 BRA 3.1108 BC3 .0686 FSP -194 SG1 3499.8 SG2 539.8 THA 134.22 EL1 1730.4 EL2 315.4 ALF 146.46

LAUNCH DATE MAR 11 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

RL 148.62 LAL .00 LOL 170.25 VL 27.589 GAL -8.22 AZL 70.61 MCA 189.99 SMA 129.50 ECC .20445 INC19.3923 V1 29.980
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.646 GAP 7.36 AZP 109.12 TAL 216.16 TAP 46.15 RCA 103.03 APO 155.98 V2 34.865
 RC 142.207 GL 56.06 GP -68.50 ZAL 113.78 ZAP 111.47 ETS 275.97 ZAE 99.22 ETE 200.47 ZAC 105.79 ETC 184.21 CLP-177.22

PLANETOCENTRIC CONIC

C3 119.423 VHL 10.928 DLA 62.30 RAL 354.63 RAD 6570.2 VEL 15.516 PTH 2.77 VHP 13.658 DPA -59.30 RAP 52.33 ECC 2.9654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 31.87 12 50 26 4809.74 -14.14 235.33 257.04 28.64 14 10 36 4209.7 -21.12 231.65
 148.13 22 37 16 3117.59 -14.13 95.27 257.02 28.64 23 29 13 2517.6 -21.11 91.59
 31.87 12 50 26 4809.74 -14.14 235.33 257.04 28.64 14 10 36 4209.7 -21.12 231.65
 148.13 22 37 16 3117.59 -14.13 95.27 257.02 28.64 23 29 13 2517.6 -21.11 91.59
 31.87 12 50 26 4809.74 -14.14 235.33 257.04 28.64 14 10 36 4209.7 -21.12 231.65
 148.13 22 37 16 3117.59 -14.13 95.27 257.02 28.64 23 29 13 2517.6 -21.11 91.59

DIFFERENTIAL CORRECTIONS

TOE 2.4406 TRA -2.8612 TC3 -.3619 BAU .5786 SGT 3560.6 SGR 936.0 SG3 72.4 ST 1604.8 SR 305.5 SS 549.2
 RDE .2417 RRA .8214 RC3 .0192 FAU .01852 RRT -.8584 RRF -.7308 RTF .9751 CRT -.2181 CRS .0142 CST -.9789
 FDE .8022 FRA -.5881 FC3 -.1343 BSP 11465 SGB 3681.6 R23 -.2356 R13 -.9686 LSA 1693.9 MSA 317.6 SSA 2.3
 BDE 2.4526 BRA 2.9767 BC3 .3624 FSP -237 SG1 3651.7 SG2 468.2 THA 167.07 EL1 1606.2 EL2 297.8 ALF 177.54

LAUNCH DATE MAR 11 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

RL 148.62 LAL .00 LOL 170.25 VL 27.515 GAL -7.88 AZL 75.41 MCA 193.03 SMA 128.99 ECC .20372 INC14.5920 V1 29.980
 RP 108.66 LAP -3.26 LOP 361.01 VP 37.601 GAP 7.51 AZP 104.23 TAL 214.40 TAP 47.42 RCA 102.71 APO 155.27 V2 34.875
 RC 144.478 GL 51.02 GP -61.89 ZAL 118.63 ZAP 117.42 ETS 287.58 ZAE 105.76 ETE 209.73 ZAC 111.72 ETC 194.45 CLP-167.82

PLANETOCENTRIC CONIC

C3 78.022 VHL 8.833 DLA 57.22 RAL 358.39 RAD 6569.5 VEL 14.120 PTH 2.57 VHP 11.076 DPA -50.96 RAP 50.14 ECC 2.2840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.96 13 20 53 4689.12 -18.58 227.06 255.90 34.84 14 39 3 4089.1 -25.08 222.44
 142.04 22 36 49 3054.39 -18.57 94.51 255.88 34.83 23 27 43 2454.4 -25.06 89.89
 37.96 13 20 53 4689.12 -18.58 227.06 255.90 34.84 14 39 3 4089.1 -25.08 222.44
 142.04 22 36 49 3054.39 -18.57 94.51 255.88 34.83 23 27 43 2454.4 -25.06 89.89
 37.96 13 20 53 4689.12 -18.58 227.06 255.90 34.84 14 39 3 4089.1 -25.08 222.44
 142.04 22 36 49 3054.39 -18.57 94.51 255.88 34.83 23 27 43 2454.4 -25.06 89.89

DIFFERENTIAL CORRECTIONS

TOE 1.8639 TRA -2.7737 TC3 -.7222 BAU .7548 SGT 3759.0 SGR 464.4 SG3 86.2 ST 1567.5 SR 342.0 SS 521.0
 RDE .5061 RRA .2660 RC3 -.0448 FAU .02583 RRT -.3214 RRF -.0379 RTF .9525 CRT .5629 CRS -.7783 CST -.9570
 FDE .7743 FRA -.5830 FC3 -.2866 BSP 11771 SGB 3787.6 R23 -.2876 R13 -.9511 LSA 1658.0 MSA 310.4 SSA 3.1
 BDE 1.9314 BRA 2.7864 BC3 .7236 FSP -282 SG1 3762.0 SG2 439.4 THA 177.70 EL1 1579.6 EL2 280.5 ALF 7.23

LAUNCH DATE MAR 11 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 401.466

RL 148.62 LAL .00 LOL 170.25 VL 27.443 GAL -7.54 AZL 78.41 MCA 196.11 SMA 128.49 ECC .20328 INC11.5908 V1 29.980
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.558 GAP 7.68 A2P 101.15 TAL 212.65 TAP 48.76 RCA 102.37 APO 154.61 V2 34.885
 RC 146.734 GL 46.16 GP -55.62 ZAL 122.40 ZAP 122.89 ETS 292.79 ZAE 110.82 ETE 212.17 ZAC 116.56 ETC 197.89 CLP-164.11

PLANETOCENTRIC CONIC

C3 57.432 VHL 7.578 DLA 52.91 RAL 2.53 RAD 6569.0 VEL 13.371 PTH 2.44 VHP 9.597 DPA -43.82 RAP 48.77 ECC 1.9452
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.24 13 52 18 4584.63 -21.42 219.01 255.29 40.38 15 8 42 3984.6 -27.41 213.60
 136.76 22 38 25 3012.82 -21.41 93.67 255.27 40.37 23 28 38 2412.8 -27.40 88.26
 43.24 13 52 18 4584.63 -21.42 219.01 255.29 40.38 15 8 42 3984.6 -27.41 213.60
 136.76 22 38 25 3012.82 -21.41 93.67 255.27 40.37 23 28 38 2412.8 -27.40 88.26
 43.24 13 52 18 4584.63 -21.42 219.01 255.29 40.38 15 8 42 3984.6 -27.41 213.60
 136.76 22 38 25 3012.82 -21.41 93.67 255.27 40.37 23 28 38 2412.8 -27.40 88.26

DIFFERENTIAL CORRECTIONS

TOE 1.5489 TRA-2.6160 TC3-1.1042 BAU .8520
 ROE .5044 RRA .0812 RC3 -.1096 FAU .03160
 FDE .7530 FRA -.5577 FC3 -.4763 BSP 12117
 BOE 1.6289 BRA 2.6172 BC3 1.1097 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 3863.7 SGR 428.2 SG3 99.8
 RRT .2362 RRF .5375 RTF .9340
 SGB 3887.4 R23 .3234 R13 .9349
 SG1 3865.0 SG2 416.0 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 1530.3 SR 382.6 SS 503.4
 CRT .7118 CRS -.9076 CST -.9409
 LSA 1627.8 MSA 303.3 SSA 4.1
 EL1 1555.1 EL2 264.5 ALF 10.40

LAUNCH DATE MAR 11 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 407.205

RL 148.62 LAL .00 LOL 170.25 VL 27.371 GAL -7.20 AZL 80.46 MCA 199.23 SMA 128.01 ECC .20304 INC 9.5367 V1 29.980
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.516 GAP 7.85 A2P 99.01 TAL 210.90 TAP 50.13 RCA 102.02 APO 154.00 V2 34.897
 RC 148.977 GL 41.78 GP -50.06 ZAL 125.17 ZAP 127.79 ETS 295.80 ZAE 114.82 ETE 212.18 ZAC 120.70 ETC 198.90 CLP-162.63

PLANETOCENTRIC CONIC

C3 45.590 VHL 6.752 DLA 49.30 RAL 6.47 RAD 6568.7 VEL 12.921 PTH 2.35 VHP 8.692 DPA -37.61 RAP 48.08 ECC 1.7503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.80 14 22 17 4494.24 -23.09 211.55 254.97 45.15 15 37 11 3894.2 -28.60 205.52
 132.20 22 39 53 2988.45 -23.08 93.08 254.95 45.14 23 29 41 2388.4 -28.58 87.05
 47.80 14 22 17 4494.24 -23.09 211.55 254.97 45.15 15 37 11 3894.2 -28.60 205.52
 132.20 22 39 53 2988.45 -23.08 93.08 254.95 45.14 23 29 41 2388.4 -28.58 87.05
 47.80 14 22 17 4494.24 -23.09 211.55 254.97 45.15 15 37 11 3894.2 -28.60 205.52
 132.20 22 39 53 2988.45 -23.08 93.08 254.95 45.14 23 29 41 2388.4 -28.58 87.05

DIFFERENTIAL CORRECTIONS

TOE 1.3424 TRA-2.4674 TC3-1.4928 BAU .9151
 ROE .4605 RRA .0134 RC3 -.1597 FAU .03604
 FDE .7214 FRA -.5152 FC3 -.6843 BSP 12467
 BOE 1.4192 BRA 2.4675 BC3 1.5013 FSP -368

MID-COURSE EXECUTION ACCURACY

SGT 3958.6 SGR 446.7 SG3 111.9
 RRT .4660 RRF .7377 RTF .9190
 SGB 3983.7 R23 .3448 R13 .9209
 SG1 3964.1 SG2 394.6 THA 3.04

ORBIT DETERMINATION ACCURACY

ST 1493.0 SR 390.8 SS 484.3
 CRT .7548 CRS -.9455 CST -.9271
 LSA 1589.9 MSA 297.4 SSA 5.3
 EL1 1522.7 EL2 251.4 ALF 11.50

LAUNCH DATE MAR 11 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 412.954

RL 148.62 LAL .00 LOL 170.25 VL 27.299 GAL -6.85 AZL 81.96 MCA 202.37 SMA 127.53 ECC .20297 INC 8.0379 V1 29.980
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.475 GAP 8.03 A2P 97.44 TAL 209.14 TAP 51.51 RCA 101.64 APO 153.41 V2 34.908
 RC 151.204 GL 37.92 GP -45.21 ZAL 127.07 ZAP 132.12 ETS 297.87 ZAE 117.97 ETE 211.17 ZAC 124.35 ETC 198.91 CLP-162.17

PLANETOCENTRIC CONIC

C3 38.029 VHL 6.167 DLA 46.28 RAL 10.16 RAD 6568.5 VEL 12.625 PTH 2.29 VHP 8.114 DPA -32.18 RAP 47.93 ECC 1.6259
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.72 14 50 34 4414.96 -24.01 204.79 254.96 49.16 16 4 9 3815.0 -29.08 198.28
 128.28 22 41 4 2976.27 -24.00 92.84 254.95 49.16 23 30 40 2376.3 -29.07 86.34
 51.72 14 50 34 4414.96 -24.01 204.79 254.96 49.16 16 4 9 3815.0 -29.08 198.28
 128.28 22 41 4 2976.27 -24.00 92.84 254.95 49.16 23 30 40 2376.3 -29.07 86.34
 51.72 14 50 34 4414.96 -24.01 204.79 254.96 49.16 16 4 9 3815.0 -29.08 198.28
 128.28 22 41 4 2976.27 -24.00 92.84 254.95 49.16 23 30 40 2376.3 -29.07 86.34

DIFFERENTIAL CORRECTIONS

TOE 1.1936 TRA-2.3293 TC3-1.8793 BAU .9606
 ROE .4161 RRA -.0122 RC3 -.1944 FAU .03923
 FDE .6809 FRA -.4595 FC3 -.8931 BSP 12775
 BOE 1.2640 BRA 2.3293 BC3 1.8893 FSP -401

MID-COURSE EXECUTION ACCURACY

SGT 4050.7 SGR 455.2 SG3 122.0
 RRT .5618 RRF .8069 RTF .9069
 SGB 4076.2 R23 .3541 R13 .9090
 SG1 4058.9 SG2 375.8 THA 3.64

ORBIT DETERMINATION ACCURACY

ST 1455.1 SR 386.7 SS 462.7
 CRT .7711 CRS -.9627 CST -.9142
 LSA 1547.7 MSA 292.6 SSA 6.6
 EL1 1486.2 EL2 241.1 ALF 11.90

LAUNCH DATE MAR 11 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 418.706

RL 148.62 LAL .00 LOL 170.25 VL 27.229 GAL -6.50 AZL 83.11 MCA 205.52 SMA 127.06 ECC .20307 INC 6.8913 V1 29.980
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.435 GAP 8.21 A2P 96.22 TAL 207.37 TAP 52.89 RCA 101.26 APO 152.86 V2 34.920
 RC 153.416 GL 34.52 GP -41.02 ZAL 128.20 ZAP 135.93 ETS 299.43 ZAE 120.48 ETE 209.75 ZAC 127.66 ETC 198.47 CLP-162.23

PLANETOCENTRIC CONIC

C3 32.806 VHL 5.728 DLA 43.76 RAL 13.66 RAD 6568.3 VEL 12.417 PTH 2.24 VHP 7.738 DPA -27.42 RAP 48.20 ECC 1.5399
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.12 15 17 24 4344.16 -24.48 198.69 255.29 52.52 16 29 48 3744.2 -29.17 191.84
 124.88 22 42 10 2972.47 -24.47 92.91 255.28 52.51 23 31 42 2372.5 -29.16 86.06
 55.12 15 17 24 4344.16 -24.48 198.69 255.29 52.52 16 29 48 3744.2 -29.17 191.84
 124.88 22 42 10 2972.47 -24.47 92.91 255.28 52.51 23 31 42 2372.5 -29.16 86.06
 55.12 15 17 24 4344.16 -24.48 198.69 255.29 52.52 16 29 48 3744.2 -29.17 191.84
 124.88 22 42 10 2972.47 -24.47 92.91 255.28 52.51 23 31 42 2372.5 -29.16 86.06

DIFFERENTIAL CORRECTIONS

TOE 1.0761 TRA-2.2032 TC3-2.2684 BAU .9995
 ROE .3784 RRA -.0226 RC3 -.2184 FAU .04152
 FDE .6323 FRA -.3990 FC3-1.0957 BSP 13190
 BOE 1.1407 BRA 2.2033 BC3 2.2789 FSP -433

MID-COURSE EXECUTION ACCURACY

SGT 4150.2 SGR 454.8 SG3 130.5
 RRT .6109 RRF .8309 RTF .8981
 SGB 4175.0 R23 .3513 R13 .9001
 SG1 4159.5 SG2 359.2 THA 3.86

ORBIT DETERMINATION ACCURACY

ST 1415.3 SR 378.7 SS 437.9
 CRT .7774 CRS -.9727 CST -.9014
 LSA 1501.7 MSA 288.0 SSA 8.1
 EL1 1446.4 EL2 233.1 ALF 12.07

LAUNCH DATE MAR 11 1969

FLIGHT TIME 142.00

ARRIVAL DATE JUL 31 1969

DISTANCE 424.452

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 27.160 GAL -6.14 AZL 84.02 MCA 208.68 SMA 126.60 ECC .20334 INC 5.9814 V1 29.980
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.395 GAP 8.39 AZP 95.25 TAL 205.59 TAP 54.27 RCA 100.86 APO 152.34 V2 34.932
 RC 155.612 GL 31.52 GP -37.41 ZAL 128.70 ZAP 139.27 ETS 300.68 ZAE 122.48 ETE 208.18 ZAC 130.70 ETC 197.84 CLP-162.58

PLANETOCENTRIC CONIC
 C3 28.979 VHL 5.383 DLA 41.66 RAL 17.03 RAD 6568.2 VEL 12.262 PTH 2.21 VHP 7.493 OPA -23.23 RAP 48.80 ECC 1.4769
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.07 15 42 59 4280.13 -24.69 193.18 255.94 55.32 16 54 19 3680.1 -29.05 186.08
 121.93 22 43 28 2974.20 -24.67 93.22 255.93 55.31 23 33 2 2374.2 -29.03 86.12
 58.07 15 42 59 4280.13 -24.69 193.18 255.94 55.32 16 54 19 3680.1 -29.05 186.08
 121.93 22 43 28 2974.20 -24.67 93.22 255.93 55.31 23 33 2 2374.2 -29.03 86.12
 58.07 15 42 59 4280.13 -24.69 193.18 255.94 55.32 16 54 19 3680.1 -29.05 186.08
 121.93 22 43 28 2974.20 -24.67 93.22 255.93 55.31 23 33 2 2374.2 -29.03 86.12

DIFFERENTIAL CORRECTIONS
 TDE .9394 TRA-2.1237 TC3-2.7162 BAU 1.0568 SGT 4324.9 SGR 452.8 SG3 141.0 ST 1353.2 SR 360.6 SS 393.2
 RDE .3384 RRA -.0378 RC3 -.2499 FAU .04448 RRT .6690 RRF .8443 RTF .9002 CRT .7695 CRS -.9753 CST -.8900
 FDE .5496 FRA -.3679 FC3-1.3289 BSP 14666 SGB 4348.5 R23 .3207 R13 .9020 LSA 1427.9 MSA 277.2 SSA 10.1
 BDE .9985 BRA 2.1241 BC3 2.7276 FSP -527 SG1 4335.5 SG2 335.7 THA 4.03 EL1 1382.2 EL2 225.5 ALF 11.91

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 144.00

ARRIVAL DATE AUG 2 1969

DISTANCE 430.210

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 27.091 GAL -5.77 AZL 84.76 MCA 211.85 SMA 126.15 ECC .20375 INC 5.2379 V1 29.980
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.357 GAP 8.58 AZP 94.45 TAL 203.80 TAP 55.64 RCA 100.45 APO 151.85 V2 34.945
 RC 157.792 GL 28.84 GP -34.31 ZAL 128.63 ZAP 142.21 ETS 301.69 ZAE 124.07 ETE 206.60 ZAC 133.57 ETC 197.14 CLP-163.08

PLANETOCENTRIC CONIC
 C3 26.028 VHL 5.102 DLA 39.90 RAL 20.35 RAD 6568.1 VEL 12.141 PTH 2.18 VHP 7.335 OPA -19.52 RAP 49.67 ECC 1.4284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.63 16 7 35 4221.71 -24.75 188.22 256.90 57.65 17 17 56 3621.7 -28.83 180.93
 119.37 22 45 20 2979.18 -24.74 93.70 256.89 57.64 23 34 59 2379.2 -28.82 86.40
 60.63 16 7 35 4221.71 -24.75 188.22 256.90 57.65 17 17 56 3621.7 -28.83 180.93
 119.37 22 45 20 2979.18 -24.74 93.70 256.89 57.64 23 34 59 2379.2 -28.82 86.40
 60.63 16 7 35 4221.71 -24.75 188.22 256.90 57.65 17 17 56 3621.7 -28.83 180.93
 119.37 22 45 20 2979.18 -24.74 93.70 256.89 57.64 23 34 59 2379.2 -28.82 86.40

DIFFERENTIAL CORRECTIONS
 TDE .9391 TRA-1.9281 TC3-3.0012 BAU 1.0475 SGT 4296.0 SGR 444.6 SG3 139.6 ST 1355.6 SR 374.3 SS 399.9
 RDE .3331 RRA -.0199 RC3 -.2336 FAU .04267 RRT .6318 RRF .8179 RTF .8797 CRT .7935 CRS -.9876 CST -.8765
 FDE .5521 FRA -.2467 FC3-1.4192 BSP 13305 SGB 4318.9 R23 .3336 R13 .8815 LSA 1434.6 MSA 282.0 SSA 11.3
 BDE .9965 BRA 1.9282 BC3 3.0103 FSP -437 SG1 4305.2 SG2 343.8 THA 3.76 EL1 1388.6 EL2 222.4 ALF 12.69

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 4 1969

DISTANCE 435.955

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 27.023 GAL -5.39 AZL 85.38 MCA 215.02 SMA 125.71 ECC .20433 INC 4.6157 V1 29.980
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.320 GAP 8.77 AZP 93.78 TAL 202.00 TAP 57.02 RCA 100.03 APO 151.40 V2 34.957
 RC 159.953 GL 26.41 GP -31.62 ZAL 128.08 ZAP 144.81 ETS 302.50 ZAE 125.36 ETE 205.09 ZAC 136.31 ETC 196.44 CLP-163.69

PLANETOCENTRIC CONIC
 C3 23.684 VHL 4.867 DLA 38.40 RAL 23.65 RAD 6568.0 VEL 12.044 PTH 2.15 VHP 7.240 OPA -16.23 RAP 50.76 ECC 1.3898
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.90 16 31 30 4167.75 -24.73 183.70 258.14 59.63 17 40 57 3567.7 -28.56 176.26
 117.10 22 47 43 2986.70 -24.71 94.31 258.13 59.62 23 37 30 2386.7 -28.55 86.87
 62.90 16 31 30 4167.75 -24.73 183.70 258.14 59.63 17 40 57 3567.7 -28.56 176.26
 117.10 22 47 43 2986.70 -24.71 94.31 258.13 59.62 23 37 30 2386.7 -28.55 86.87
 62.90 16 31 30 4167.75 -24.73 183.70 258.14 59.63 17 40 57 3567.7 -28.56 176.26
 117.10 22 47 43 2986.70 -24.71 94.31 258.13 59.62 23 37 30 2386.7 -28.55 86.87

DIFFERENTIAL CORRECTIONS
 TDE .8775 TRA-1.8053 TC3-3.3910 BAU 1.0764 SGT 4395.1 SGR 440.5 SG3 143.5 ST 1318.7 SR 371.7 SS 374.3
 RDE .3156 RRA -.0200 RC3 -.2413 FAU .04294 RRT .6406 RRF .8016 RTF .8764 CRT .7994 CRS -.9918 CST -.8643
 FDE .5019 FRA -.1828 FC3-1.5696 BSP 13767 SGB 4417.1 R23 .3085 R13 .8780 LSA 1393.1 MSA 276.5 SSA 13.2
 BDE .9325 BRA 1.8054 BC3 3.3996 FSP -458 SG1 4404.2 SG2 337.6 THA 3.70 EL1 1352.7 EL2 217.7 ALF 13.04

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 6 1969

DISTANCE 441.696

HELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 26.956 GAL -5.01 AZL 85.92 MCA 218.20 SMA 125.28 ECC .20508 INC 4.0844 V1 29.980
 RP 108.37 LAP -2.52 LOP 28.38 VP 37.284 GAP 8.96 AZP 93.21 TAL 200.19 TAP 58.39 RCA 99.59 APO 150.98 V2 34.970
 RC 162.097 GL 24.20 GP -29.29 ZAL 127.11 ZAP 147.13 ETS 303.13 ZAE 126.41 ETE 203.68 ZAC 138.94 ETC 195.76 CLP-164.36

PLANETOCENTRIC CONIC
 C3 21.767 VHL 4.666 DLA 37.13 RAL 26.98 RAD 6567.9 VEL 11.964 PTH 2.13 VHP 7.191 OPA -13.28 RAP 52.03 ECC 1.3582
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.91 16 54 55 4117.71 -24.66 179.56 259.67 61.31 18 3 33 3517.7 -28.29 172.01
 115.09 22 50 52 2995.71 -24.65 95.01 259.66 61.30 23 40 48 2395.7 -28.28 87.46
 64.91 16 54 55 4117.71 -24.66 179.56 259.67 61.31 18 3 33 3517.7 -28.29 172.01
 115.09 22 50 52 2995.71 -24.65 95.01 259.66 61.30 23 40 48 2395.7 -28.28 87.46
 64.91 16 54 55 4117.71 -24.66 179.56 259.67 61.31 18 3 33 3517.7 -28.29 172.01
 115.09 22 50 52 2995.71 -24.65 95.01 259.66 61.30 23 40 48 2395.7 -28.28 87.46

DIFFERENTIAL CORRECTIONS
 TDE .8339 TRA-1.6719 TC3-3.7715 BAU 1.0999 SGT 4479.6 SGR 438.2 SG3 145.7 ST 1287.2 SR 373.2 SS 353.0
 RDE .3038 RRA -.0176 RC3 -.2446 FAU .04254 RRT .6394 RRF .7791 RTF .8726 CRT .8099 CRS -.9953 CST -.8523
 FDE .4591 FRA -.1150 FC3-1.6920 BSP 14051 SGB 4500.9 R23 .2834 R13 .8740 LSA 1359.1 MSA 271.0 SSA 15.2
 BDE .8875 BRA 1.6720 BC3 3.7795 FSP -465 SG1 4488.4 SG2 336.2 THA 3.60 EL1 1323.2 EL2 213.0 ALF 13.57

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 11 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 447.432

RL 148.62 LAL .00 LOL 170.25 VL 26.890 GAL -4.61 AZL 86.38 MCA 221.38 SMA 124.87 ECC .20600 INC 3.6229 V1 29.980
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.248 GAP 9.16 AZP 92.72 TAL 198.37 TAP 59.75 RCA 99.14 APO 150.59 V2 34.983
 RC 164.221 GL 22.15 GP -27.25 ZAL 125.76 ZAP 149.20 ETS 303.58 ZAE 127.28 ETE 202.38 ZAC 141.51 ETC 195.11 CLP-165.07

PLANETOCENTRIC CONIC

C3 20.171 VHL 4.491 DLA 36.04 RAL 30.37 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 7.175 DPA -10.63 RAP 53.45 ECC 1.332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.71 17 18 7 4070.90 -24.57 175.73 261.46 62.77 18 25 58 3470.9 -28.01 168.09
 113.29 22 54 46 3005.96 -24.56 95.78 261.45 62.75 23 44 52 2406.0 -28.00 88.14
 66.71 17 18 7 4070.90 -24.57 175.73 261.46 62.77 18 25 58 3470.9 -28.01 168.09
 113.29 22 54 46 3005.96 -24.56 95.78 261.45 62.75 23 44 52 2406.0 -28.00 88.14
 66.71 17 18 7 4070.90 -24.57 175.73 261.46 62.77 18 25 58 3470.9 -28.01 168.09
 113.29 22 54 46 3005.96 -24.56 95.78 261.45 62.75 23 44 52 2406.0 -28.00 88.14

DIFFERENTIAL CORRECTIONS

TDE .7990 TRA-1.5332 TC3-4.1526 BAU 1.1218
 RDE .2952 RRA -.0145 RC3 -.2473 FAU .04183
 FDE .4188 FRA -.0489 FC3-1.7955 BSP 14323
 BDE .8518 BRA 1.5333 BC3 4.1600 FSP -468

MID-COURSE EXECUTION ACCURACY

SGT 4561.1 SGR 437.8 SG3 146.9
 RRT .6348 RRF .7537 RTF .8698
 SGB 4582.0 R23 .2570 R13 .8709
 SG1 4569.6 SG2 337.6 THA 3.51

ORBIT DETERMINATION ACCURACY

ST 1256.2 SR 376.7 SS 332.9
 CRT .8232 CRS -.9971 CST -.8403
 LSA 1326.9 MSA 264.4 SSA 17.5
 EL1 1295.0 EL2 207.5 ALF 14.24

LAUNCH DATE MAR 11 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 453.160

RL 148.62 LAL .00 LOL 170.25 VL 26.825 GAL -4.21 AZL 86.78 MCA 224.57 SMA 124.46 ECC .20710 INC 3.2158 V1 29.980
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.214 GAP 9.36 AZP 92.29 TAL 196.55 TAP 61.12 RCA 98.68 APO 150.23 V2 34.996
 RC 166.326 GL 20.24 GP -25.47 ZAL 124.06 ZAP 151.07 ETS 303.86 ZAE 128.00 ETE 201.19 ZAC 144.04 ETC 194.51 CLP-165.79

PLANETOCENTRIC CONIC

C3 18.826 VHL 4.339 DLA 35.08 RAL 33.86 RAD 6567.8 VEL 11.841 PTH 2.10 VHP 7.186 DPA -8.24 RAP 55.00 ECC 1.3098
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.37 17 41 17 4026.81 -24.46 172.16 263.52 64.03 18 48 24 3426.8 -27.74 164.46
 111.63 22 59 26 3017.34 -24.44 96.62 263.51 64.02 23 49 43 2417.3 -27.73 88.91
 68.37 17 41 17 4026.81 -24.46 172.16 263.52 64.03 18 48 24 3426.8 -27.74 164.46
 111.63 22 59 26 3017.34 -24.44 96.62 263.51 64.02 23 49 43 2417.3 -27.73 88.91
 68.37 17 41 17 4026.81 -24.46 172.16 263.52 64.03 18 48 24 3426.8 -27.74 164.46
 111.63 22 59 26 3017.34 -24.44 96.62 263.51 64.02 23 49 43 2417.3 -27.73 88.91

DIFFERENTIAL CORRECTIONS

TDE .7694 TRA-1.3893 TC3-4.5342 BAU 1.1429
 RDE .2889 RRA -.0107 RC3 -.2500 FAU .04090
 FDE .3805 FRA .0146 FC3-1.8808 BSP 14603
 BDE .8219 BRA 1.3894 BC3 4.5410 FSP -470

MID-COURSE EXECUTION ACCURACY

SGT 4641.1 SGR 439.2 SG3 147.6
 RRT .6279 RRF .7270 RTF .8679
 SGB 4661.8 R23 .2301 R13 .8690
 SG1 4649.3 SG2 341.2 THA 3.42

ORBIT DETERMINATION ACCURACY

ST 1224.2 SR 381.6 SS 313.5
 CRT .8389 CRS -.9964 CST -.8277
 LSA 1294.7 MSA 256.7 SSA 20.0
 EL1 1266.5 EL2 200.8 ALF 15.04

LAUNCH DATE MAR 11 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 458.880

RL 148.62 LAL .00 LOL 170.25 VL 26.761 GAL -3.79 AZL 87.15 MCA 227.76 SMA 124.05 ECC .20838 INC 2.8520 V1 29.980
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.180 GAP 9.57 AZP 91.92 TAL 194.72 TAP 62.48 RCA 98.20 APO 149.91 V2 35.010
 RC 168.410 GL 18.42 GP -23.91 ZAL 122.05 ZAP 152.76 ETS 303.98 ZAE 128.60 ETE 200.12 ZAC 146.53 ETC 193.95 CLP-166.53

PLANETOCENTRIC CONIC

C3 17.686 VHL 4.205 DLA 34.23 RAL 37.47 RAD 6567.7 VEL 11.793 PTH 2.09 VHP 7.218 DPA -6.06 RAP 56.66 ECC 1.2911
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.92 18 4 45 3984.70 -24.32 168.79 265.84 65.14 19 11 10 3384.7 -27.46 161.02
 110.08 23 4 44 3030.25 -24.31 97.57 265.84 65.13 23 55 14 2430.3 -27.45 89.80
 69.92 18 4 45 3984.70 -24.32 168.79 265.84 65.14 19 11 10 3384.7 -27.46 161.02
 110.08 23 4 44 3030.25 -24.31 97.57 265.84 65.13 23 55 14 2430.3 -27.45 89.80
 69.92 18 4 45 3984.70 -24.32 168.79 265.84 65.14 19 11 10 3384.7 -27.46 161.02
 110.08 23 4 44 3030.25 -24.31 97.57 265.84 65.13 23 55 14 2430.3 -27.45 89.80

DIFFERENTIAL CORRECTIONS

TDE .7462 TRA-1.2359 TC3-4.9056 BAU 1.1614
 RDE .2847 RRA -.0058 RC3 -.2522 FAU .03970
 FDE .3455 FRA .0775 FC3-1.9435 BSP 14806
 BDE .7987 BRA 1.2360 BC3 4.9120 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 4712.3 SGR 442.2 SG3 147.4
 RRT .6185 RRF .7001 RTF .8662
 SGB 4733.0 R23 .2053 R13 .8671
 SG1 4720.2 SG2 346.9 THA 3.34

ORBIT DETERMINATION ACCURACY

ST 1192.6 SR 388.0 SS 296.1
 CRT .8578 CRS -.9923 CST -.8146
 LSA 1264.4 MSA 247.4 SSA 22.7
 EL1 1239.3 EL2 191.9 ALF 15.99

LAUNCH DATE MAR 11 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 464.591

RL 148.62 LAL .00 LOL 170.25 VL 26.697 GAL -3.37 AZL 87.48 MCA 230.95 SMA 123.66 ECC .20986 INC 2.5231 V1 29.980
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.147 GAP 9.78 AZP 91.59 TAL 192.88 TAP 63.83 RCA 97.71 APO 149.62 V2 35.023
 RC 170.474 GL 16.67 GP -22.52 ZAL 119.74 ZAP 154.30 ETS 303.94 ZAE 129.12 ETE 199.15 ZAC 149.00 ETC 193.43 CLP-167.28

PLANETOCENTRIC CONIC

C3 16.723 VHL 4.089 DLA 33.44 RAL 41.21 RAD 6567.7 VEL 11.752 PTH 2.07 VHP 7.268 DPA -4.08 RAP 58.42 ECC 1.2752
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.42 18 28 49 3943.78 -24.16 165.52 268.44 66.14 19 34 33 3343.8 -27.17 157.71
 108.58 23 10 30 3045.30 -24.15 98.66 268.44 66.13 24 1 15 2445.3 -27.16 90.85
 71.42 18 28 49 3943.78 -24.16 165.52 268.44 66.14 19 34 33 3343.8 -27.17 157.71
 108.58 23 10 30 3045.30 -24.15 98.66 268.44 66.13 24 1 15 2445.3 -27.16 90.85
 110.00 0 17 0 2853.63 -28.85 85.84 270.51 70.81 1 4 33 2253.6 -31.19 77.42
 110.00 22 25 25 3183.46 -19.63 106.98 266.04 61.44 23 18 28 2583.5 -23.29 99.75

DIFFERENTIAL CORRECTIONS

TDE .7217 TRA-1.0784 TC3-5.2740 BAU 1.1805
 RDE .2814 RRA -.0004 RC3 -.2556 FAU .03846
 FDE .3100 FRA .1360 FC3-1.9912 BSP 15070
 BDE .7746 BRA 1.0784 BC3 5.2802 FSP -467

MID-COURSE EXECUTION ACCURACY

SGT 4786.1 SGR 446.3 SG3 147.0
 RRT .6095 RRF .6739 RTF .8661
 SGB 4806.9 R23 .1806 R13 .8668
 SG1 4793.9 SG2 353.3 THA 3.27

ORBIT DETERMINATION ACCURACY

ST 1155.1 SR 394.3 SS 277.8
 CRT .8773 CRS -.9833 CST -.7989
 LSA 1228.9 MSA 236.3 SSA 26.0
 EL1 1207.0 EL2 181.1 ALF 17.07

LAUNCH DATE MAR 11 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 16 1969

DISTANCE 470.292

MELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 26.635 GAL -2.93 AZL 87.78 HCA 234.15 SMA 123.28 ECC .21155 INC 2.2225 V1 29.980
 RP 108.16 LAP -1.80 LOP 44.38 VP 37.114 GAP 10.00 AZP 91.30 TAL 191.04 TAP 65.19 RCA 97.20 APO 149.36 V2 35.036
 RC 172.518 GL 14.98 GP -21.30 ZAL 117.16 ZAP 155.70 ETS 303.73 ZAE 129.57 ETE 198.27 ZAC 151.46 ETC 192.93 CLP-168.02

PLANETOCENTRIC CONIC
 C3 15.917 VHL 3.990 DLA 32.70 RAL 45.09 RAD 6567.6 VEL 11.718 PTH 2.06 VHP 7.333 DPA -2.27 RAP 60.28 ECC 1.2620
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.92 18 53 50 3903.06 -23.96 162.29 271.31 67.05 19 58 54 3303.1 -26.85 154.45
 107.08 23 16 26 3063.48 -23.94 99.96 271.30 67.04 24 7 30 2463.5 -26.84 92.12
 72.92 18 53 50 3903.06 -23.96 162.29 271.31 67.05 19 58 54 3303.1 -26.85 154.45
 107.08 23 16 26 3063.48 -23.94 99.96 271.30 67.04 24 7 30 2463.5 -26.84 92.12
 110.00 0 54 38 2773.15 -30.51 80.17 273.93 73.79 1 40 51 2173.1 -32.43 71.48
 110.00 22 18 45 3241.39 -17.71 110.38 268.00 60.27 23 12 46 2641.4 -21.53 103.33

MID-COURSE EXECUTION ACCURACY
 SGT 4859.0 SGR 451.2 SG3 146.2 ST 1111.6 SR 400.7 SS 259.6
 RRT .6004 RRF .6492 RTF .8669 CRT .8976 CRS -.9671 CST -.7797
 SGB 4879.9 R23 .1573 R13 .8676 LSA 1188.6 MSA 223.5 SSA 30.1
 SGI 4866.6 SG2 360.3 THA 3.21 EL1 1169.6 EL2 167.8 ALF 18.32

ORBIT DETERMINATION ACCURACY
 ST 1111.6 SR 400.7 SS 259.6
 CRT .8976 CRS -.9671 CST -.7797
 LSA 1188.6 MSA 223.5 SSA 30.1
 EL1 1169.6 EL2 167.8 ALF 18.32

DIFFERENTIAL CORRECTIONS
 TDE .6958 TRA -.9138 TC3-5.6297 BAU 1.1993
 RDE .2790 RRA .0058 RC3 -.2598 FAU .03717
 FDE .2749 FRA .1919 FC3-2.0215 BSP 15344
 BOE .7497 BRA .9138 BC3 5.6357 FSP -466

LAUNCH DATE MAR 11 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 18 1969

DISTANCE 475.981

MELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 26.573 GAL -2.47 AZL 88.06 HCA 237.35 SMA 122.91 ECC .21345 INC 1.9449 V1 29.980
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.083 GAP 10.23 AZP 91.05 TAL 189.19 TAP 66.54 RCA 96.67 APO 149.14 V2 35.050
 RC 174.540 GL 13.34 GP -20.21 ZAL 114.32 ZAP 157.00 ETS 303.36 ZAE 129.97 ETE 197.48 ZAC 153.90 ETC 192.46 CLP-168.77

PLANETOCENTRIC CONIC
 C3 15.256 VHL 3.906 DLA 31.97 RAL 49.12 RAD 6567.6 VEL 11.689 PTH 2.06 VHP 7.412 DPA -.61 RAP 62.21 ECC 1.2511
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.49 19 20 18 3861.13 -23.70 158.97 274.45 67.88 20 24 40 3261.1 -26.49 151.10
 105.51 23 22 7 3086.25 -23.69 101.58 274.45 67.87 24 13 33 2486.2 -26.48 93.72
 74.49 19 20 18 3861.13 -23.70 158.97 274.45 67.88 20 24 40 3261.1 -26.49 151.10
 105.51 23 22 7 3086.25 -23.69 101.58 274.45 67.87 24 13 33 2486.2 -26.48 93.72
 110.00 1 27 16 2710.94 -31.61 75.65 277.34 76.25 2 12 27 2110.9 -33.17 66.78
 110.00 22 18 15 3284.44 -16.24 112.85 270.53 59.50 23 13 0 2684.4 -20.16 105.93

MID-COURSE EXECUTION ACCURACY
 SGT 4925.2 SGR 456.4 SG3 145.1 ST 1061.4 SR 406.9 SS 242.3
 RRT .5904 RRF .6257 RTF .8679 CRT .9187 CRS -.9399 CST -.7549
 SGB 4946.3 R23 .1368 R13 .8684 LSA 1142.8 MSA 208.9 SSA 35.0
 SGI 4932.6 SG2 367.8 THA 3.15 EL1 1126.6 EL2 151.4 ALF 19.77

ORBIT DETERMINATION ACCURACY
 ST 1061.4 SR 406.9 SS 242.3
 CRT .9187 CRS -.9399 CST -.7549
 LSA 1142.8 MSA 208.9 SSA 35.0
 EL1 1126.6 EL2 151.4 ALF 19.77

DIFFERENTIAL CORRECTIONS
 TDE .6679 TRA -.7395 TC3-5.9580 BAU 1.2164
 RDE .2773 RRA .0132 RC3 -.2635 FAU .03575
 FDE .2405 FRA .2469 FC3-2.0290 BSP 15579
 BOE .7232 BRA .7397 BC3 5.9639 FSP -463

LAUNCH DATE MAR 11 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 20 1969

DISTANCE 481.659

MELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 26.513 GAL -2.01 AZL 88.31 HCA 240.55 SMA 122.54 ECC .21557 INC 1.6864 V1 29.980
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.052 GAP 10.47 AZP 90.83 TAL 187.35 TAP 67.90 RCA 96.12 APO 148.96 V2 35.063
 RC 176.542 GL 11.72 GP -19.23 ZAL 111.24 ZAP 158.19 ETS 302.82 ZAE 130.32 ETE 196.77 ZAC 156.35 ETC 191.99 CLP-169.51

PLANETOCENTRIC CONIC
 C3 14.733 VHL 3.838 DLA 31.24 RAL 53.29 RAD 6567.6 VEL 11.667 PTH 2.05 VHP 7.503 DPA .92 RAP 64.21 ECC 1.2425
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.22 19 48 51 3816.00 -23.38 155.41 277.86 68.66 20 52 27 3216.0 -26.07 147.53
 103.78 23 26 51 3115.78 -23.37 103.68 277.85 68.65 24 18 47 2515.8 -26.06 95.80
 76.22 19 48 51 3816.00 -23.38 155.41 277.86 68.66 20 52 27 3216.0 -26.07 147.53
 103.78 23 26 51 3115.78 -23.37 103.68 277.85 68.65 24 18 47 2515.8 -26.06 95.80
 110.00 1 57 59 2657.71 -32.40 71.71 280.87 78.46 2 42 17 2057.7 -33.65 62.70
 110.00 22 20 50 3322.06 -14.92 114.97 273.46 58.88 23 16 12 2722.1 -18.94 108.15

MID-COURSE EXECUTION ACCURACY
 SGT 4984.1 SGR 462.1 SG3 143.5 ST 1006.0 SR 412.9 SS 227.6
 RRT .5801 RRF .6043 RTF .8692 CRT .9403 CRS -.8979 CST -.7261
 SGB 5005.5 R23 .1193 R13 .8697 LSA 1093.4 MSA 192.7 SSA 41.3
 SGI 4991.4 SG2 375.9 THA 3.10 EL1 1079.6 EL2 131.0 ALF 21.43

ORBIT DETERMINATION ACCURACY
 ST 1006.0 SR 412.9 SS 227.6
 CRT .9403 CRS -.8979 CST -.7261
 LSA 1093.4 MSA 192.7 SSA 41.3
 EL1 1079.6 EL2 131.0 ALF 21.43

DIFFERENTIAL CORRECTIONS
 TDE .6380 TRA -.5549 TC3-6.2467 BAU 1.2315
 RDE .2765 RRA .0218 RC3 -.2662 FAU .03425
 FDE .2079 FRA .3006 FC3-2.0124 BSP 15757
 BOE .6953 BRA .5553 BC3 6.2524 FSP -457

LAUNCH DATE MAR 11 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 22 1969

DISTANCE 487.321

MELIOCENTRIC CONIC
 RL 148.62 LAL .00 LOL 170.25 VL 26.453 GAL -1.53 AZL 88.56 HCA 243.76 SMA 122.18 ECC .21794 INC 1.4435 V1 29.980
 RP 108.04 LAP -1.29 LOP 54.00 VP 37.022 GAP 10.71 AZP 90.64 TAL 185.50 TAP 69.26 RCA 95.55 APO 148.81 V2 35.076
 RC 178.523 GL 10.13 GP -18.36 ZAL 107.93 ZAP 159.29 ETS 302.11 ZAE 130.64 ETE 196.12 ZAC 158.79 ETC 191.52 CLP-170.25

PLANETOCENTRIC CONIC
 C3 14.347 VHL 3.788 DLA 30.48 RAL 57.59 RAD 6567.6 VEL 11.650 PTH 2.05 VHP 7.606 DPA 2.32 RAP 66.28 ECC 1.2361
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.23 20 20 29 3764.41 -22.97 151.37 281.53 69.40 21 23 13 3164.4 -25.57 143.48
 101.77 23 29 35 3155.56 -22.96 106.50 281.52 69.39 24 22 10 2555.6 -25.56 98.62
 78.23 20 20 29 3764.41 -22.97 151.37 281.53 69.40 21 23 13 3164.4 -25.57 143.48
 101.77 23 29 35 3155.56 -22.96 106.50 281.52 69.39 24 22 10 2555.6 -25.56 98.62
 110.00 2 27 58 2609.78 -33.00 68.09 284.57 80.52 3 11 28 2009.8 -33.95 58.99
 110.00 22 25 11 3358.19 -13.64 116.99 276.72 58.35 23 21 9 2758.2 -17.73 110.26

MID-COURSE EXECUTION ACCURACY
 SGT 5044.2 SGR 467.2 SG3 141.8 ST 935.5 SR 417.3 SS 212.5
 RRT .5701 RRF .5840 RTF .8715 CRT .9594 CRS -.8317 CST -.6850
 SGB 5065.8 R23 .1026 R13 .8719 LSA 1030.0 MSA 175.9 SSA 49.7
 SGI 5051.3 SG2 383.3 THA 3.04 EL1 1018.6 EL2 108.1 ALF 23.45

ORBIT DETERMINATION ACCURACY
 ST 935.5 SR 417.3 SS 212.5
 CRT .9594 CRS -.8317 CST -.6850
 LSA 1030.0 MSA 175.9 SSA 49.7
 EL1 1018.6 EL2 108.1 ALF 23.45

DIFFERENTIAL CORRECTIONS
 TDE .5974 TRA -.3635 TC3-6.4966 BAU 1.2471
 RDE .2756 RRA .0313 RC3 -.2688 FAU .03277
 FDE .1726 FRA .3518 FC3-1.9772 BSP 15975
 BOE .6579 BRA .3648 BC3 6.5021 FSP -452

LAUNCH DATE MAR 11 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 492.967

RL 148.62 LAL .00 LOL 170.25 VL 26.394 GAL -1.03 AZL 88.79 MCA 246.97 SMA 121.83 ECC .22057 INC 1.2135 V1 29.980
 RP 108.00 LAP -1.12 LOP 57.21 VP 36.992 GAP 10.97 AZP 90.47 TAL 183.65 TAP 70.61 RCA 94.96 APO 148.71 V2 35.089
 RC 180.483 GL 8.56 GP -17.57 ZAL 104.43 ZAP 160.32 ETS 301.22 ZAE 130.93 ETE 195.54 ZAC 161.23 ETC 191.04 CLP-170.99

PLANETOCENTRIC CONIC

C3 14.097 VHL 3.755 DLA 29.67 RAL 62.01 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 7.720 DPA 3.61 RAP 68.41 ECC 1.2320
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.76 20 57 13 3699.60 -22.48 146.34 285.44 70.11 21 58 52 3099.6 -24.99 138.46
 99.24 23 28 5 3212.62 -22.47 110.55 285.44 70.10 24 21 37 2612.6 -24.97 102.67
 100.00 0 8 43 3095.30 -24.78 102.69 286.29 72.73 1 0 18 2495.3 -26.91 94.54
 100.00 23 3 12 3292.15 -20.20 115.51 284.49 67.49 23 58 4 2692.2 -23.08 107.90
 110.00 2 57 46 2565.30 -33.45 64.70 288.46 82.49 3 40 32 1965.3 -34.12 55.52
 110.00 22 30 37 3394.92 -12.32 119.01 280.26 57.86 23 27 12 2794.9 -16.48 112.37

DIFFERENTIAL CORRECTIONS

TOE .5479 TRA -.1640 TC3-6.6941 BAU 1.2626
 RDE .2750 RRA .0416 RC3 -.2709 FAU .03134
 FDE .1366 FRA .4000 FC3-1.9249 BSP 16221
 BOE .6130 BRA .1692 BC3 6.6996 FSP -450

MID-COURSE EXECUTION ACCURACY

SGT 5103.9 SGR 472.1 S63 140.0
 RRT .5613 RRF .5657 RTF .8750
 SGB 5125.7 R23 .0866 R13 .8754
 SGI 5110.8 S62 390.2 THA 2.99

ORBIT DETERMINATION ACCURACY

ST 853.9 SR 420.3 SS 199.8
 CRT .9749 CRS -.7335 CST -.6355
 LSA 957.3 MSA 160.5 SSA 60.1
 EL1 948.0 EL2 84.3 ALF 25.85

LAUNCH DATE MAR 11 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 498.596

RL 148.62 LAL .00 LOL 170.25 VL 26.336 GAL -.52 AZL 89.01 MCA 250.18 SMA 121.49 ECC .22347 INC .9940 V1 29.980
 RP 107.96 LAP -.94 LOP 60.42 VP 36.963 GAP 11.24 AZP 90.34 TAL 181.80 TAP 71.97 RCA 94.34 APO 148.64 V2 35.102
 RC 182.422 GL 7.02 GP -16.87 ZAL 100.77 ZAP 161.27 ETS 300.15 ZAE 131.19 ETE 195.01 ZAC 163.68 ETC 190.51 CLP-171.72

PLANETOCENTRIC CONIC

C3 13.988 VHL 3.740 DLA 28.80 RAL 66.51 RAD 6567.6 VEL 11.635 PTH 2.04 VHP 7.846 DPA 4.79 RAP 70.59 ECC 1.2302
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.54 21 45 16 3601.17 -21.88 138.85 289.58 70.80 22 45 17 3001.2 -24.30 130.97
 95.46 23 15 57 3307.65 -21.87 117.34 289.58 70.79 24 11 4 2707.6 -24.29 109.46
 100.00 1 3 48 2973.61 -26.98 94.32 291.22 76.61 1 53 22 2373.6 -28.55 85.87
 100.00 22 44 1 3410.44 -16.95 122.79 287.46 65.01 23 40 52 2810.4 -20.18 115.49
 110.00 3 27 37 2523.32 -33.77 61.47 292.54 84.37 4 9 40 1923.3 -34.18 52.25
 110.00 22 36 42 3433.49 -10.92 121.12 284.04 57.40 23 33 55 2833.5 -15.14 114.56

DIFFERENTIAL CORRECTIONS

TOE .4908 TRA .0493 TC3-6.8143 BAU 1.2753
 RDE .2749 RRA .0534 RC3 -.2700 FAU .02982
 FDE .1006 FRA .4497 FC3-1.8457 BSP 16363
 BOE .5625 BRA .0727 BC3 6.8197 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 5153.1 SGR 476.3 S63 137.9
 RRT .5518 RRF .5487 RTF .8779
 SGB 5175.1 R23 .0737 R13 .8782
 SGI 5159.9 S62 396.7 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 767.7 SR 422.1 SS 193.0
 CRT .9822 CRS -.5971 CST -.5870
 LSA 880.9 MSA 154.6 SSA 69.2
 EL1 873.3 EL2 69.7 ALF 28.57

LAUNCH DATE MAR 11 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 504.211

RL 148.62 LAL .00 LOL 170.25 VL 26.279 GAL .02 AZL 89.22 MCA 253.39 SMA 121.16 ECC .22666 INC .7831 V1 29.980
 RP 107.92 LAP -.75 LOP 63.64 VP 36.934 GAP 11.52 AZP 90.22 TAL 179.94 TAP 73.33 RCA 93.70 APO 148.62 V2 35.114
 RC 184.340 GL 5.50 GP -16.23 ZAL 96.95 ZAP 162.15 ETS 298.90 ZAE 131.44 ETE 194.54 ZAC 166.12 ETC 189.90 CLP-172.45

PLANETOCENTRIC CONIC

C3 14.026 VHL 3.745 DLA 27.85 RAL 71.08 RAD 6567.6 VEL 11.637 PTH 2.04 VHP 7.982 DPA 5.88 RAP 72.82 ECC 1.2308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 33 44 3308.98 -24.40 118.28 294.99 75.17 24 28 53 2709.0 -26.20 110.07
 90.00 22 3 55 3601.02 -18.02 137.28 292.69 67.78 23 3 56 3001.0 -20.88 129.77
 100.00 1 46 33 2893.50 -28.11 88.64 295.92 79.40 2 34 47 2293.5 -29.29 80.03
 100.00 22 37 43 3491.74 -14.55 127.63 291.06 63.60 23 35 55 2891.7 -17.98 120.52
 110.00 3 57 34 2483.45 -34.00 58.37 296.79 86.19 4 38 58 1883.4 -34.15 49.13
 110.00 22 43 11 3474.55 -9.40 123.33 288.06 56.98 23 41 5 2874.6 -13.68 116.85

DIFFERENTIAL CORRECTIONS

TOE .5196 TRA .3467 TC3-6.5538 BAU 1.2296
 RDE .2930 RRA .0776 RC3 -.2141 FAU .02387
 FDE .1574 FRA .5579 FC3-1.4732 BSP 14763
 BOE .5965 BRA .3553 BC3 6.5573 FSP -306

MID-COURSE EXECUTION ACCURACY

SGT 5009.0 SGR 494.6 S63 128.4
 RRT .4941 RRF .5641 RTF .8314
 SGB 5033.3 R23 .1728 R13 .8322
 SGI 5015.0 S62 429.5 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 828.2 SR 450.1 SS 260.8
 CRT .9772 CRS -.7039 CST -.7934
 LSA 961.0 MSA 169.6 SSA 64.2
 EL1 938.8 EL2 84.3 ALF 28.22

LAUNCH DATE MAR 11 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 509.788

RL 148.62 LAL .00 LOL 170.25 VL 26.222 GAL .57 AZL 89.42 MCA 256.61 SMA 120.83 ECC .23017 INC .5790 V1 29.980
 RP 107.88 LAP -.56 LOP 66.85 VP 36.905 GAP 11.82 AZP 90.13 TAL 178.10 TAP 74.71 RCA 93.02 APO 148.65 V2 35.126
 RC 186.236 GL 4.03 GP -15.65 ZAL 93.07 ZAP 162.96 ETS 297.44 ZAE 131.67 ETE 194.10 ZAC 168.57 ETC 189.13 CLP-173.18

PLANETOCENTRIC CONIC

C3 14.224 VHL 3.771 DLA 26.84 RAL 75.63 RAD 6567.6 VEL 11.645 PTH 2.04 VHP 8.132 DPA 6.87 RAP 75.10 ECC 1.2341
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 31 12 3195.40 -26.15 110.42 300.07 78.74 1 24 28 2595.4 -27.44 101.99
 90.00 21 46 40 3720.78 -14.78 144.59 296.17 65.57 22 48 41 3120.8 -17.96 137.35
 100.00 2 25 20 2827.48 -28.85 83.87 300.59 81.81 3 12 27 2227.5 -29.68 75.16
 100.00 22 35 14 3563.92 -12.32 131.84 294.94 62.55 23 34 38 2963.9 -15.91 124.88
 110.00 4 27 26 2445.41 -34.13 55.41 301.15 87.94 5 8 11 1845.4 -34.04 46.17
 110.00 22 49 37 3518.76 -7.75 125.69 292.22 56.60 23 48 16 2918.8 -12.09 119.29

DIFFERENTIAL CORRECTIONS

TOE .3389 TRA .5032 TC3-6.8251 BAU 1.2988
 RDE .2760 RRA .0797 RC3 -.2605 FAU .02676
 FDE .0292 FRA .5455 FC3-1.6287 BSP 16706
 BOE .4370 BRA .5095 BC3 6.8301 FSP -428

MID-COURSE EXECUTION ACCURACY

SGT 5244.2 SGR 482.6 S63 133.1
 RRT .5310 RRF .5193 RTF .8841
 SGB 5266.4 R23 .0555 R13 .8843
 SGI 5250.5 S62 408.4 THA 2.81

ORBIT DETERMINATION ACCURACY

ST 595.8 SR 421.3 SS 199.9
 CRT .9053 CRS -.2518 CST -.5910
 LSA 721.4 MSA 219.7 SSA 61.1
 EL1 714.3 EL2 149.3 ALF 34.34

LAUNCH DATE MAR 11 1969

FLIGHT TIME 174.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 515.346
 RL 148.62 LAL .00 LOL 170.25 VL 26.167 GAL 1.14 AZL 89.62 MCA 259.83 SMA 120.52 ECC .23402 INC .3801 V1 29.980
 RP 107.85 LAP -.37 LOP 70.07 VP 36.877 GAP 12.14 AZP 90.07 TAL 176.26 TAP 76.09 RCA 92.31 APO 148.72 V2 35.138
 RC 188.109 GL 2.61 GP -15.12 ZAL 89.11 ZAP 163.72 ETS 295.78 ZAE 131.88 ETE 193.70 ZAC 171.02 ETC 188.06 CLP-173.90

PLANETOCENTRIC CONIC

C3 14.590 VHL 3.820 DLA 25.75 RAL 80.16 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 8.294 DPA 7.77 RAP 77.41 ECC 1.2401
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 14 38 3115.84 -27.09 104.78 304.99 81.41 2 6 34 2515.8 -28.00 96.24
 90.00 21 39 25 3811.59 -12.16 149.96 300.11 64.23 22 42 56 3211.6 -15.53 142.91
 100.00 3 1 51 2770.20 -29.33 79.68 305.32 83.96 3 48 1 2170.2 -29.86 70.91
 100.00 22 34 53 3632.46 -10.14 135.76 299.06 61.73 23 35 26 3032.5 -13.84 128.92
 110.00 4 57 7 2409.55 -34.18 52.61 305.64 89.60 5 37 16 1809.6 -33.86 43.38
 110.00 22 56 7 3565.87 -5.98 128.19 296.54 56.28 23 55 32 2965.9 -10.37 121.85

DIFFERENTIAL CORRECTIONS

TDE .2428 TRA .7460 TC3-6.7058 BAU 1.3089
 RDE .2769 RRA .0939 RC3 -.2520 FAU .02528
 FDE -.0087 FRA .5911 FC3-1.5003 BSP 16866
 BDE .3683 BRA .7519 BC3 6.7106 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 5283.9 SGR 483.8 SG3 130.5
 RRT .5210 RRF .5050 RTF .8881
 SGB 5306.0 R23 .0463 R13 .8882
 SG1 5289.9 SG2 412.5 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 543.4 SR 418.0 SS 213.3
 CRT .7470 CRS -.0694 CST -.6840
 LSA 653.8 MSA 292.4 SSA 50.8
 EL1 644.3 EL2 234.4 ALF 35.23

LAUNCH DATE MAR 11 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 520.874
 RL 148.62 LAL .00 LOL 170.25 VL 26.112 GAL 1.74 AZL 89.81 MCA 263.05 SMA 120.20 ECC .23824 INC .1850 V1 29.980
 RP 107.81 LAP -.18 LOP 73.29 VP 36.850 GAP 12.47 AZP 90.02 TAL 174.43 TAP 77.48 RCA 91.57 APO 148.84 V2 35.150
 RC 189.959 GL 1.24 GP -14.64 ZAL 85.13 ZAP 164.42 ETS 293.91 ZAE 132.07 ETE 193.34 ZAC 173.46 ETC 186.34 CLP-174.63

PLANETOCENTRIC CONIC

C3 15.141 VHL 3.891 DLA 24.60 RAL 84.63 RAD 6567.6 VEL 11.684 PTH 2.06 VHP 8.469 DPA 8.59 RAP 79.76 ECC 1.2492
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 53 48 3050.93 -27.66 100.12 309.88 83.68 2 44 39 2450.9 -28.25 91.50
 90.00 21 35 51 3893.04 -9.70 154.69 304.28 63.27 22 40 44 3293.0 -13.22 147.77
 100.00 3 36 37 2719.44 -29.64 75.94 310.08 85.91 4 21 57 2119.4 -29.89 67.14
 100.00 22 35 43 3699.76 -7.95 139.55 303.34 61.09 23 37 23 3099.8 -11.75 132.82
 110.00 5 26 22 2376.11 -34.17 50.00 310.22 91.14 6 5 58 1776.1 -33.63 40.80
 110.00 23 2 28 3615.86 -4.08 130.82 300.97 56.03 24 2 44 3015.9 -8.52 124.53

DIFFERENTIAL CORRECTIONS

TDE .1374 TRA 1.0036 TC3-6.4984 BAU 1.3163
 RDE .2786 RRA .1091 RC3 -.2401 FAU .02378
 FDE -.0454 FRA .6379 FC3-1.3595 BSP 16955
 BDE .3106 BRA 1.0095 BC3 6.5028 FSP -414

MID-COURSE EXECUTION ACCURACY

SGT 5315.7 SGR 484.1 SG3 127.9
 RRT .5109 RRF .4922 RTF .8917
 SGB 5337.7 R23 .0393 R13 .8918
 SG1 5321.5 SG2 415.7 THA 2.68

ORBIT DETERMINATION ACCURACY

ST 549.2 SR 413.6 SS 233.1
 CRT .4827 CRS .0822 CST -.8136
 LSA 622.4 MSA 371.4 SSA 42.0
 EL1 603.3 EL2 329.8 ALF 29.62

LAUNCH DATE MAR 11 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 526.367
 RL 148.62 LAL .00 LOL 170.25 VL 26.059 GAL 2.36 AZL 90.01 MCA 266.27 SMA 119.90 ECC .24286 INC .0000 V1 29.980
 RP 107.78 LAP .01 LOP 76.52 VP 36.822 GAP 12.82 AZP 90.00 TAL 172.60 TAP 78.87 RCA 90.78 APO 149.02 V2 35.161
 RC 191.786 GL -.05 GP -14.21 ZAL 81.18 ZAP 165.06 ETS 291.82 ZAE 132.26 ETE 193.00 ZAC 175.90 ETC 182.75 CLP-175.35

PLANETOCENTRIC CONIC

C3 15.895 VHL 3.987 DLA 23.39 RAL 88.98 RAD 6567.6 VEL 11.717 PTH 2.06 VHP 8.659 DPA 9.32 RAP 82.15 ECC 1.2616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 30 8 2995.70 -28.01 96.12 314.75 85.66 3 20 4 2395.7 -28.32 87.47
 90.00 21 34 15 3970.21 -7.31 159.09 308.61 62.57 22 40 25 3370.2 -10.93 152.28
 100.00 4 9 48 2674.36 -29.81 72.60 314.87 87.66 4 54 22 2074.4 -29.82 63.79
 100.00 22 37 16 3766.78 -5.73 143.28 307.75 60.61 23 40 3 3166.8 -9.60 136.64
 110.00 5 54 56 2345.46 -34.10 47.61 314.86 92.56 6 34 1 1745.5 -33.37 38.44
 110.00 23 8 38 3668.45 -2.08 133.57 305.48 55.87 24 9 46 3068.4 -6.54 127.33

DIFFERENTIAL CORRECTIONS

TDE .0147 TRA 1.2696 TC3-6.2288 BAU 1.3245
 RDE .2805 RRA .1246 RC3 -.2267 FAU .02239
 FDE -.0843 FRA .6830 FC3-1.2195 BSP 17123
 BDE .2809 BRA 1.2757 BC3 6.2330 FSP -409

MID-COURSE EXECUTION ACCURACY

SGT 5349.8 SGR 482.9 SG3 125.3
 RRT .5008 RRF .4790 RTF .8960
 SGB 5371.6 R23 .0317 R13 .8961
 SG1 5355.3 SG2 417.5 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 615.1 SR 407.4 SS 257.5
 CRT .1765 CRS .2132 CST -.9123
 LSA 662.6 MSA 412.7 SSA 35.4
 EL1 622.2 EL2 396.4 ALF 11.30

LAUNCH DATE MAR 11 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 531.821
 RL 148.62 LAL .00 LOL 170.25 VL 26.006 GAL 3.01 AZL 90.20 MCA 269.50 SMA 119.60 ECC .24791 INC .1978 V1 29.980
 RP 107.75 LAP .20 LOP 79.74 VP 36.795 GAP 13.20 AZP 90.00 TAL 170.79 TAP 80.28 RCA 89.95 APO 149.25 V2 35.172
 RC 193.588 GL -1.25 GP -13.81 ZAL 77.30 ZAP 165.65 ETS 289.50 ZAE 132.43 ETE 192.69 ZAC 178.28 ETC 169.39 CLP-176.07

PLANETOCENTRIC CONIC

C3 16.876 VHL 4.108 DLA 22.16 RAL 93.19 RAD 6567.7 VEL 11.758 PTH 2.08 VHP 8.864 DPA 9.98 RAP 84.55 ECC 1.2777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 4 8 2948.20 -28.21 92.66 319.61 87.39 3 53 16 2348.2 -28.27 83.99
 90.00 21 33 50 4045.06 -4.94 163.32 313.04 62.08 22 41 15 3445.1 -8.64 156.59
 100.00 4 41 23 2634.64 -29.88 69.65 319.67 89.21 5 25 17 2034.6 -29.67 60.85
 100.00 22 39 16 3833.85 -3.47 146.99 312.23 60.29 23 43 10 3233.9 -7.40 140.40
 110.00 6 22 35 2318.00 -34.00 45.47 319.54 93.82 7 1 13 1718.0 -33.09 36.35
 110.00 23 14 33 3723.26 .02 136.43 310.05 55.82 24 16 36 3123.3 -4.47 130.21

DIFFERENTIAL CORRECTIONS

TDE -.1184 TRA 1.5495 TC3-5.8944 BAU 1.3307
 RDE .2833 RRA .1406 RC3 -.2109 FAU .02102
 FDE -.1220 FRA .7289 FC3-1.0785 BSP 17266
 BDE .3071 BRA 1.5559 BC3 5.8981 FSP -403

MID-COURSE EXECUTION ACCURACY

SGT 5378.2 SGR 480.6 SG3 122.8
 RRT .4905 RRF .4666 RTF .9004
 SGB 5399.6 R23 .0256 R13 .9005
 SG1 5383.4 SG2 418.4 THA 2.52

ORBIT DETERMINATION ACCURACY

ST 733.8 SR 400.2 SS 284.6
 CRT -.0683 CRS .3106 CST -.9626
 LSA 785.1 MSA 402.9 SSA 30.3
 EL1 734.5 EL2 398.9 ALF 176.97

LAUNCH DATE MAR 11 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 537.230

RL 148.62 LAL .00 LOL 170.25 VL 25.954 GAL 3.69 AZL 90.39 HCA 272.72 SMA 119.31 ECC .25344 INC .3891 V1 29.980
 RP 107.71 LAP .39 LOP 82.97 VP 36.768 GAP 13.60 AZP 90.02 TAL 168.99 TAP 81.71 RCA 89.07 APO 149.55 V2 35.182
 RC 195.366 GL -2.37 GP -13.45 ZAL 73.51 ZAP 166.18 ETS 286.94 ZAE 132.58 ETE 192.41 ZAC 178.91 ETC 49.03 CLP -176.80

PLANETOCENTRIC CONIC

C3 18.110 VHL 4.256 DLA 20.90 RAL 97.22 RAD 6567.7 VEL 11.811 PTH 2.09 VHP 9.086 DPA 10.56 RAP 86.99 ECC 1.2980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 36 0 2907.53 -28.30 89.69 324.46 88.87 4 24 27 2307.5 -28.15 81.02
 90.00 21 34 10 4118.46 -2.59 167.43 317.55 61.79 22 42 49 3518.5 -6.34 160.76
 100.00 5 11 19 1600.18 -29.89 67.08 324.47 90.56 5 54 39 2000.2 -29.49 58.30
 100.00 22 41 32 3901.04 -1.20 150.68 316.77 60.13 23 46 33 3301.0 -5.17 144.14
 110.00 6 49 9 2294.09 -33.87 43.61 324.24 94.91 7 27 23 1694.1 -32.82 34.53
 110.00 23 20 12 3779.89 2.18 139.38 314.66 55.88 24 23 11 3179.9 -2.31 133.18

DIFFERENTIAL CORRECTIONS

TDE -.2627 TRA 1.8435 TC3-5.5099 BAU 1.3348
 RDE .2870 RRA .1569 RC3 -.1931 FAU .01966
 FDE -.1592 FRA .7752 FC3 -.9398 BSP 17388
 BDE .3891 BRA 1.8502 BC3 5.5133 FSP -397

MID-COURSE EXECUTION ACCURACY

SGT 5401.5 SGR 477.0 SG3 120.2
 RRT .4794 RRF .4544 RTF .9046
 SGB 5422.5 R23 .0206 R13 .9047
 SG1 5406.4 SG2 418.2 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 883.3 SR 392.4 SS 312.9
 CRT -.2363 CRS .3834 CST -.9838
 LSA 941.9 MSA 379.9 SSA 26.4
 EL1 889.3 EL2 378.7 ALF 172.67

LAUNCH DATE MAR 11 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 542.587

RL 148.62 LAL .00 LOL 170.25 VL 25.903 GAL 4.40 AZL 90.58 HCA 275.95 SMA 119.03 ECC .25949 INC .5814 V1 29.980
 RP 107.68 LAP .58 LOP 86.20 VP 36.741 GAP 14.03 AZP 90.06 TAL 167.20 TAP 83.15 RCA 88.14 APO 149.92 V2 35.192
 RC 197.118 GL -3.39 GP -13.12 ZAL 69.85 ZAP 166.65 ETS 284.15 ZAE 132.72 ETE 192.14 ZAC 176.62 ETC 22.87 CLP -177.53

PLANETOCENTRIC CONIC

C3 19.631 VHL 4.431 DLA 19.65 RAL 101.07 RAD 6567.8 VEL 11.875 PTH 2.11 VHP 9.328 DPA 11.07 RAP 89.44 ECC 1.3231
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 5 49 2873.19 -28.32 87.17 329.28 90.13 4 53 43 2273.2 -28.00 78.52
 90.00 21 35 1 4190.76 -26 171.47 322.10 61.68 22 44 52 3590.8 -4.04 164.83
 100.00 5 39 33 2570.95 -29.85 64.91 329.25 91.70 6 22 24 1971.0 -29.29 56.15
 100.00 22 43 59 3968.23 1.08 154.36 321.35 60.13 23 50 7 3368.2 -2.90 147.84
 110.00 7 14 27 2274.04 -33.74 42.06 328.95 95.82 7 52 21 1674.0 -32.57 33.02
 110.00 23 25 34 3837.91 4.39 142.42 319.29 56.07 24 29 32 3237.9 -0.09 136.21

DIFFERENTIAL CORRECTIONS

TDE -.4145 TRA 2.1551 TC3-5.0853 BAU 1.3354
 RDE .2918 RRA .1736 RC3 -.1740 FAU .01828
 FDE -.1950 FRA .8233 FC3 -.8063 BSP 17419
 BDE .5069 BRA 2.1621 BC3 5.0883 FSP -388

MID-COURSE EXECUTION ACCURACY

SGT 5417.7 SGR 472.2 SG3 117.6
 RRT .4682 RRF .4427 RTF .9088
 SGB 5438.2 R23 .0166 R13 .9088
 SG1 5422.2 SG2 416.9 THA 2.35

ORBIT DETERMINATION ACCURACY

ST 1045.8 SR 384.1 SS 341.0
 CRT -.3439 CRS .4356 CST -.9923
 LSA 1108.6 MSA 357.9 SSA 23.4
 EL1 1055.2 EL2 357.5 ALF 171.86

LAUNCH DATE MAR 11 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 547.883

RL 148.62 LAL .00 LOL 170.25 VL 25.853 GAL 5.15 AZL 90.78 HCA 279.18 SMA 118.75 ECC .26611 INC .7761 V1 29.980
 RP 107.66 LAP .77 LOP 89.43 VP 36.715 GAP 14.49 AZP 90.12 TAL 165.43 TAP 84.62 RCA 87.15 APO 150.35 V2 35.201
 RC 198.846 GL -4.32 GP -12.82 ZAL 66.34 ZAP 167.07 ETS 281.11 ZAE 132.85 ETE 191.89 ZAC 174.20 ETC 18.07 CLP -178.27

PLANETOCENTRIC CONIC

C3 21.478 VHL 4.634 DLA 18.42 RAL 104.71 RAD 6567.9 VEL 11.952 PTH 2.13 VHP 9.589 DPA 11.50 RAP 91.90 ECC 1.3535
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 33 40 2844.87 -28.29 85.10 334.07 91.17 5 21 5 2244.9 -27.83 76.47
 90.00 21 36 12 4262.09 2.04 175.44 326.67 61.75 22 47 14 3662.1 -1.75 168.82
 100.00 6 6 4 2546.92 -29.79 63.13 334.02 92.64 6 48 31 1946.9 -29.10 54.39
 100.00 22 46 30 4035.26 3.35 158.05 325.95 60.28 23 53 45 3435.3 -6.3 151.52
 110.00 7 38 24 2258.04 -33.63 40.83 333.65 96.54 8 16 2 1658.0 -32.36 31.82
 110.00 23 30 39 3896.91 6.63 145.53 323.92 56.39 24 35 36 3296.9 2.16 139.28

DIFFERENTIAL CORRECTIONS

TDE -.5793 TRA 2.4793 TC3-4.6481 BAU 1.3354
 RDE .2975 RRA .1900 RC3 -.1547 FAU .01699
 FDE -.2312 FRA .8715 FC3 -.6850 BSP 17527
 BDE .6512 BRA 2.4866 BC3 4.6507 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 5432.4 SGR 466.0 SG3 115.1
 RRT .4560 RRF .4303 RTF .9133
 SGB 5452.4 R23 .0128 R13 .9133
 SG1 5436.6 SG2 414.4 THA 2.25

ORBIT DETERMINATION ACCURACY

ST 1212.0 SR 375.2 SS 368.8
 CRT -.4197 CRS .4775 CST -.9961
 LSA 1277.2 MSA 337.7 SSA 21.1
 EL1 1223.1 EL2 337.5 ALF 171.98

LAUNCH DATE MAR 11 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 553.109

RL 148.62 LAL .00 LOL 170.25 VL 25.804 GAL 5.94 AZL 90.97 HCA 282.42 SMA 118.48 ECC .27337 INC .9743 V1 29.980
 RP 107.63 LAP .95 LOP 92.66 VP 36.688 GAP 14.99 AZP 90.21 TAL 163.69 TAP 86.10 RCA 86.09 APO 150.87 V2 35.209
 RC 200.549 GL -5.14 GP -12.54 ZAL 63.00 ZAP 167.42 ETS 277.85 ZAE 132.96 ETE 191.66 ZAC 171.77 ETC 16.06 CLP -179.01

PLANETOCENTRIC CONIC

C3 23.698 VHL 4.868 DLA 17.21 RAL 108.13 RAD 6568.0 VEL 12.045 PTH 2.15 VHP 9.874 DPA 11.87 RAP 94.37 ECC 1.3900
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 59 35 2822.31 -28.25 83.45 338.83 92.00 5 46 38 2222.3 -27.68 74.83
 90.00 21 37 37 4332.42 4.30 179.38 331.25 61.98 22 49 50 3732.4 .52 172.74
 100.00 6 30 51 2528.01 -29.72 61.73 338.75 93.37 7 12 59 1928.0 -28.94 53.01
 100.00 22 49 3 4101.95 5.59 161.73 330.55 60.59 23 57 25 3501.9 1.63 155.18
 110.00 8 0 55 2246.20 -33.53 39.92 338.34 97.07 8 38 21 1646.2 -32.19 30.94
 110.00 23 35 28 3956.52 8.86 148.70 328.54 56.85 24 41 24 3356.5 4.44 142.40

DIFFERENTIAL CORRECTIONS

TDE -.7537 TRA 2.8205 TC3-4.2047 BAU 1.3328
 RDE .3043 RRA .2061 RC3 -.1356 FAU .01574
 FDE -.2669 FRA .9209 FC3 -.5751 BSP 17618
 BDE .8128 BRA 2.8280 BC3 4.2069 FSP -375

MID-COURSE EXECUTION ACCURACY

SGT 5442.7 SGR 458.4 SG3 112.6
 RRT .4430 RRF .4176 RTF .9180
 SGB 5462.0 R23 .0096 R13 .9181
 SG1 5446.5 SG2 410.7 THA 2.15

ORBIT DETERMINATION ACCURACY

ST 1374.4 SR 366.2 SS 395.4
 CRT -.4725 CRS .5096 CST -.9978
 LSA 1441.0 MSA 320.1 SSA 19.2
 EL1 1385.9 EL2 320.0 ALF 172.42

LAUNCH DATE MAR 11 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 558.252

RL 148.62 LAL .00 LOL 170.25 VL 25.755 GAL 6.78 AZL 91.18 MCA 285.65 SMA 118.22 ECC .28134 INC 1.1777 V1 29.980
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.662 GAP 15.53 AZP 90.32 TAL 161.97 TAP 87.62 RCA 84.96 APO 151.48 V2 35.217
 RC 202.227 GL -5.88 GP -12.28 ZAL 59.83 ZAP 167.71 ETS 274.35 ZAE 133.06 ETE 191.44 ZAC 169.34 ETC 14.95 CLP -179.77

PLANETOCENTRIC CONIC

C3 26.350 VHL 5.133 DLA 16.05 RAL 111.35 RAD 6568.1 VEL 12.154 PTH 2.18 VHP 10.185 OPA 12.16 RAP 96.85 ECC 1.4337
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 23 38 2805.25 -28.21 82.21 343.54 92.62 6 10 24 2205.3 -27.54 73.60
 90.00 21 39 11 4401.72 6.50 183.28 335.84 62.38 22 52 33 3801.7 2.75 176.61
 100.00 6 53 55 2514.11 -29.66 60.70 343.45 93.91 7 35 49 1914.1 -28.80 52.00
 100.00 22 51 35 4168.09 7.79 165.41 335.14 61.05 24 1 3 3568.1 3.86 158.82
 110.00 8 21 59 2238.55 -33.47 39.33 343.00 97.41 8 59 18 1638.6 -32.08 30.37
 110.00 23 40 0 4016.41 11.07 151.92 333.16 57.45 24 46 57 3416.4 6.70 145.56

DIFFERENTIAL CORRECTIONS

TDE -.9363 TRA 3.1809 TC3-3.7651 BAU 1.3270
 RDE .3123 RRA .2217 RC3 -.1169 FAU .01451
 FDE -.3019 FRA .9723 FC3 -.4767 BSP 17685
 BDE .9870 BRA 3.1886 BC3 3.7669 FSP -369

MID-COURSE EXECUTION ACCURACY

SGT 5448.2 SGR 449.6 SG3 110.3
 RRT .4290 RRF .4045 RTF .9229
 SGB 5466.7 R23 .0070 R13 .9229
 SG1 5451.6 SG2 405.9 THA 2.04

ORBIT DETERMINATION ACCURACY

ST 1527.8 SR 357.0 SS 420.7
 CRT -.5101 CRS .5345 CST -.9986
 LSA 1595.4 MSA 304.8 SSA 17.7
 EL1 1539.1 EL2 304.8 ALF 172.92

LAUNCH DATE MAR 11 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 563.299

RL 148.62 LAL .00 LOL 170.25 VL 25.708 GAL 7.67 AZL 91.39 MCA 288.88 SMA 117.96 ECC .29009 INC 1.3878 V1 29.980
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.636 GAP 16.11 AZP 90.45 TAL 160.28 TAP 89.16 RCA 83.74 APO 152.18 V2 35.225
 RC 203.880 GL -6.52 GP -12.05 ZAL 56.86 ZAP 167.94 ETS 270.64 ZAE 133.14 ETE 191.23 ZAC 166.93 ETC 14.23 CLP 179.47

PLANETOCENTRIC CONIC

C3 29.503 VHL 5.432 DLA 14.95 RAL 114.34 RAD 6568.2 VEL 12.283 PTH 2.21 VHP 10.525 OPA 12.39 RAP 99.32 ECC 1.4855
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 45 53 2793.43 -28.17 81.35 348.20 93.05 6 32 27 2193.4 -27.45 72.75
 90.00 21 40 50 4469.87 8.64 187.15 340.41 62.93 22 55 20 3869.9 4.94 180.43
 100.00 7 15 19 2505.02 -29.62 60.03 348.10 94.26 7 57 4 1905.0 -28.71 51.34
 100.00 22 54 6 4233.51 9.92 169.09 339.72 61.66 24 4 39 3633.5 6.06 162.43
 110.00 8 41 37 2235.01 -33.43 39.06 347.63 97.57 9 18 52 1635.0 -32.03 30.11
 110.00 23 44 17 4076.29 13.24 155.20 337.76 58.20 24 52 13 3476.3 8.94 148.74

DIFFERENTIAL CORRECTIONS

TDE -1.1255 TRA 3.5641 TC3-3.3348 BAU 1.3159
 RDE .3216 RRA .2366 RC3 -.0989 FAU .01326
 FDE -.3356 FRA 1.0270 FC3 -.3892 BSP 17678
 BDE 1.1705 BRA 3.5720 BC3 3.3362 FSP -360

MID-COURSE EXECUTION ACCURACY

SGT 5447.5 SGR 439.8 SG3 108.0
 RRT .4140 RRF .3913 RTF .9278
 SGB 5465.2 R23 .0056 R13 .9278
 SG1 5450.5 SG2 400.1 THA 1.92

ORBIT DETERMINATION ACCURACY

ST 1668.5 SR 348.0 SS 444.2
 CRT -.5372 CRS .5529 CST -.9991
 LSA 1737.0 MSA 291.7 SSA 16.4
 EL1 1679.3 EL2 291.7 ALF 173.41

LAUNCH DATE MAR 11 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 568.231

RL 148.62 LAL .00 LOL 170.25 VL 25.661 GAL 8.62 AZL 91.61 MCA 292.12 SMA 117.71 ECC .29973 INC 1.6061 V1 29.980
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.610 GAP 16.75 AZP 90.60 TAL 158.63 TAP 90.75 RCA 82.43 APO 153.00 V2 35.232
 RC 205.508 GL -7.08 GP -11.84 ZAL 54.08 ZAP 168.09 ETS 266.74 ZAE 133.19 ETE 191.03 ZAC 164.52 ETC 13.73 CLP 178.68

PLANETOCENTRIC CONIC

C3 33.244 VHL 5.766 DLA 13.90 RAL 117.13 RAD 6568.3 VEL 12.434 PTH 2.25 VHP 10.897 OPA 12.56 RAP 101.79 ECC 1.5471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 6 24 2786.53 -28.14 80.84 352.82 93.30 6 52 51 2186.5 -27.38 72.26
 90.00 21 42 32 4536.78 10.69 191.00 344.96 63.62 22 58 9 3936.8 7.06 184.20
 100.00 7 35 6 2500.51 -29.59 59.69 352.70 94.44 8 16 46 1900.5 -28.66 51.01
 100.00 22 56 32 4298.03 11.98 172.77 344.29 62.41 24 8 10 3698.0 8.19 166.03
 110.00 8 59 49 2235.43 -33.44 39.09 352.23 97.55 9 37 4 1635.4 -32.03 30.14
 110.00 23 48 19 4135.88 15.36 158.53 342.34 59.08 24 57 15 3535.9 11.14 151.96

DIFFERENTIAL CORRECTIONS

TDE -1.3276 TRA 3.9675 TC3-2.9300 BAU 1.3027
 RDE .3321 RRA .2502 RC3 -.0824 FAU .01209
 FDE -.3702 FRA 1.0830 FC3 -.3150 BSP 17730
 BDE 1.3685 BRA 3.9754 BC3 2.9312 FSP -354

MID-COURSE EXECUTION ACCURACY

SGT 5445.4 SGR 428.5 SG3 105.7
 RRT .3970 RRF .3761 RTF .9331
 SGB 5462.2 R23 .0041 R13 .9331
 SG1 5448.1 SG2 393.1 THA 1.80

ORBIT DETERMINATION ACCURACY

ST 1798.7 SR 338.9 SS 467.1
 CRT -.5602 CRS .5700 CST -.9994
 LSA 1868.2 MSA 279.1 SSA 15.3
 EL1 1809.0 EL2 279.1 ALF 173.83

LAUNCH DATE MAR 11 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 573.028

RL 148.62 LAL .00 LOL 170.25 VL 25.616 GAL 9.63 AZL 91.83 MCA 295.36 SMA 117.47 ECC .31036 INC 1.8349 V1 29.980
 RP 107.54 LAP 1.66 LOP 103.61 VP 36.584 GAP 17.44 AZP 90.79 TAL 157.02 TAP 92.38 RCA 81.01 APO 153.93 V2 35.238
 RC 207.111 GL -7.57 GP -11.64 ZAL 51.49 ZAP 168.17 ETS 262.67 ZAE 133.22 ETE 190.83 ZAC 162.14 ETC 13.35 CLP 177.88

PLANETOCENTRIC CONIC

C3 37.678 VHL 6.138 DLA 12.92 RAL 119.71 RAD 6568.5 VEL 12.611 PTH 2.29 VHP 11.307 OPA 12.67 RAP 104.25 ECC 1.6201
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 25 17 2784.21 -28.13 80.67 357.37 93.39 7 11 41 2184.2 -27.36 72.09
 90.00 21 44 16 4602.33 12.64 194.82 349.49 64.45 23 0 58 4002.3 9.10 187.93
 100.00 7 53 19 2500.30 -29.59 59.68 357.25 94.44 8 34 59 1900.3 -28.66 51.00
 100.00 22 58 55 4361.48 13.95 176.45 348.83 63.29 24 11 36 3761.5 10.26 169.61
 110.00 9 16 37 2239.61 -33.47 39.41 356.78 97.37 9 53 57 1639.6 -32.09 30.45
 110.00 23 52 6 4194.93 17.39 161.89 346.90 60.10 25 2 0 3594.9 13.28 155.19

DIFFERENTIAL CORRECTIONS

TDE -1.5394 TRA 4.3923 TC3-2.5501 BAU 1.2850
 RDE .3439 RRA .2624 RC3 -.0674 FAU .01095
 FDE -.4051 FRA 1.1423 FC3 -.2513 BSP 17780
 BDE 1.5774 BRA 4.4002 BC3 2.5510 FSP -347

MID-COURSE EXECUTION ACCURACY

SGT 5436.8 SGR 416.0 SG3 103.5
 RRT .3780 RRF .3594 RTF .9384
 SGB 5452.7 R23 .0032 R13 .9384
 SG1 5439.1 SG2 385.0 THA 1.66

ORBIT DETERMINATION ACCURACY

ST 1914.7 SR 329.8 SS 489.2
 CRT -.5795 CRS .5850 CST -.9995
 LSA 1985.5 MSA 267.4 SSA 14.4
 EL1 1924.4 EL2 267.4 ALF 174.19

LAUNCH DATE MAR 11 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 577.663

RL 148.62 LAL .00 LOL 170.25 VL 25.571 GAL 10.71 AZL 92.08 MCA 298.59 SMA 117.23 ECC .32210 INC 2.0763 V1 29.980
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.558 GAP 18.20 AZP 90.99 TAL 155.47 TAP 94.06 RCA 79.47 APO 155.00 V2 35.243
 RC 208.690 GL -7.99 GP -11.46 ZAL 49.08 ZAP 168.17 ETS 258.47 ZAE 133.22 ETE 190.64 ZAC 159.78 ETC 13.07 CLP 177.05

PLANETOCENTRIC CONIC

C3 42.937 VHL 6.553 DLA 12.00 RAL 122.09 RAD 6568.6 VEL 12.818 PTH 2.33 VHP 11.759 DPA 12.72 RAP 106.68 ECC 1.7066
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 42 34 2786.13 -28.14 80.81 1.85 93.32 7 29 0 2186.1 -27.38 72.23
 90.00 21 45 59 4666.38 14.49 198.62 353.98 65.40 23 3 45 4066.4 11.05 191.63
 100.00 8 10 2 2504.08 -29.61 59.96 1.74 94.30 8 51 46 1904.1 -28.70 51.27
 100.00 23 1 13 4423.68 15.82 180.12 353.33 64.30 24 14 56 3823.7 12.24 173.17
 110.00 9 32 5 2247.30 -33.54 40.00 1.28 97.02 10 9 33 1647.3 -32.21 31.02
 110.00 23 55 38 4253.26 19.34 165.30 351.44 61.25 25 6 32 3653.3 15.35 158.44

DIFFERENTIAL CORRECTIONS

TDE -1.7615 TRA 4.8461 TC3 -2.1963 BAU 1.2611
 RDE .3572 RRA .2727 RC3 -.0538 FAU .00979
 FDE -.4399 FRA 1.2056 FC3 -.1975 BSP 17803
 BDE 1.7973 BRA 4.8538 BC3 2.1970 FSP -341

MID-COURSE EXECUTION ACCURACY

SGT 5424.4 SGR 402.4 SG3 101.4
 RRT .3564 RRF .3407 RTF .9438
 SGB 5439.3 R23 .0028 R13 .9438
 SGI 5426.3 SG2 375.9 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 2017.1 SR 320.8 SS 510.6
 CRT -.5963 CRS .5985 CST -.9996
 LSA 2089.6 MSA 256.4 SSA 13.5
 EL1 2026.3 EL2 256.3 ALF 174.49

LAUNCH DATE MAR 11 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 582.102

RL 148.62 LAL .00 LOL 170.25 VL 25.528 GAL 11.88 AZL 92.33 MCA 301.83 SMA 117.01 ECC .33513 INC 2.3332 V1 29.980
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.532 GAP 19.04 AZP 91.23 TAL 153.97 TAP 95.81 RCA 77.79 APO 156.22 V2 35.248
 RC 210.244 GL -8.34 GP -11.30 ZAL 46.87 ZAP 168.09 ETS 254.17 ZAE 133.18 ETE 190.45 ZAC 157.44 ETC 12.84 CLP 176.20

PLANETOCENTRIC CONIC

C3 49.185 VHL 7.013 DLA 11.16 RAL 124.28 RAD 6568.8 VEL 13.059 PTH 2.38 VHP 12.259 DPA 12.71 RAP 109.09 ECC 1.8095
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 58 22 2791.93 -28.16 81.24 6.26 93.10 7 44 54 2191.9 -27.43 72.65
 90.00 21 47 40 4728.78 16.22 202.38 358.43 66.47 23 6 29 4128.8 12.90 195.28
 100.00 8 25 19 2511.50 -29.65 60.50 6.15 94.01 9 7 10 1911.5 -28.78 51.81
 100.00 23 3 25 4484.44 17.58 183.78 357.80 65.43 24 18 9 3884.4 14.12 176.70
 110.00 9 46 15 2258.22 -33.63 40.84 5.72 96.53 10 23 54 1658.2 -32.36 31.84
 110.00 0 2 53 4310.49 21.17 168.72 355.94 62.52 1 14 44 3710.5 17.33 161.71

DIFFERENTIAL CORRECTIONS

TDE -1.9921 TRA 5.3336 TC3 -1.8682 BAU 1.2288
 RDE .3721 RRA .2808 RC3 -.0418 FAU .00860
 FDE -.4746 FRA 1.2742 FC3 -.1513 BSP 17726
 BDE 2.0265 BRA 5.3410 BC3 1.8687 FSP -332

MID-COURSE EXECUTION ACCURACY

SGT 5407.5 SGR 388.0 SG3 99.3
 RRT .3323 RRF .3199 RTF .9492
 SGB 5421.4 R23 .0032 R13 .9492
 SGI 5409.0 SG2 365.8 THA 1.37

ORBIT DETERMINATION ACCURACY

ST 2104.8 SR 312.0 SS 531.4
 CRT -.6109 CRS .6103 CST -.9997
 LSA 2179.2 MSA 246.1 SSA 12.7
 EL1 2113.5 EL2 246.0 ALF 174.75

LAUNCH DATE MAR 11 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 586.305

RL 148.62 LAL .00 LOL 170.25 VL 25.486 GAL 13.15 AZL 92.61 MCA 305.07 SMA 116.79 ECC .34960 INC 2.6088 V1 29.980
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.507 GAP 19.97 AZP 91.50 TAL 152.55 TAP 97.63 RCA 75.96 APO 157.61 V2 35.252
 RC 211.773 GL -8.63 GP -11.14 ZAL 44.84 ZAP 167.92 ETS 249.82 ZAE 133.11 ETE 190.26 ZAC 155.14 ETC 12.66 CLP 175.30

PLANETOCENTRIC CONIC

C3 56.630 VHL 7.525 DLA 10.38 RAL 126.29 RAD 6569.0 VEL 13.341 PTH 2.44 VHP 12.816 DPA 12.66 RAP 111.46 ECC 1.9320
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 12 43 2801.22 -28.19 81.91 10.57 92.77 7 59 24 2201.2 -27.51 73.31
 90.00 21 49 19 4789.34 17.83 206.10 2.81 97.63 23 9 9 4189.3 14.64 198.87
 100.00 8 39 13 2522.24 -29.70 61.30 10.48 93.60 9 21 15 1922.2 -28.88 52.59
 100.00 23 5 31 4543.55 19.22 187.41 2.20 96.65 24 21 14 3943.5 15.89 180.19
 110.00 9 59 10 2272.05 -33.73 41.91 10.08 95.91 10 37 2 1672.0 -32.54 32.87
 110.00 0 5 59 4366.50 22.89 172.16 .38 63.89 1 18 45 3766.5 19.20 164.97

DIFFERENTIAL CORRECTIONS

TDE -2.2400 TRA 5.8506 TC3 -1.5724 BAU 1.1907
 RDE .3885 RRA .2858 RC3 -.0315 FAU .00744
 FDE -.5116 FRA 1.3470 FC3 -.1137 BSP 17749
 BDE 2.2734 BRA 5.8576 BC3 1.5727 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 5386.8 SGR 372.4 SG3 97.3
 RRT .3038 RRF .2946 RTF .9547
 SGB 5399.7 R23 .0035 R13 .9547
 SGI 5388.0 SG2 354.7 THA 1.21

ORBIT DETERMINATION ACCURACY

ST 2181.6 SR 303.2 SS 553.2
 CRT -.6263 CRS .6236 CST -.9997
 LSA 2258.7 MSA 235.5 SSA 12.0
 EL1 2189.9 EL2 235.4 ALF 174.97

LAUNCH DATE MAR 11 1969

FLIGHT TIME 204.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 590.217

RL 148.62 LAL .00 LOL 170.25 VL 25.445 GAL 14.53 AZL 92.91 MCA 308.31 SMA 116.57 ECC .36573 INC 2.9073 V1 29.980
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.482 GAP 21.00 AZP 91.80 TAL 151.22 TAP 99.53 RCA 73.94 APO 159.21 V2 35.255
 RC 213.276 GL -8.88 GP -11.00 ZAL 42.99 ZAP 167.66 ETS 245.44 ZAE 132.99 ETE 190.07 ZAC 152.88 ETC 12.52 CLP 174.37

PLANETOCENTRIC CONIC

C3 65.536 VHL 8.095 DLA 9.68 RAL 128.11 RAD 6569.2 VEL 13.671 PTH 2.50 VHP 13.438 DPA 12.56 RAP 113.79 ECC 2.0786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 25 40 2813.64 -28.23 82.82 14.78 92.31 8 12 34 2213.6 -27.61 74.21
 90.00 21 50 55 4847.83 19.31 209.75 7.12 98.87 23 11 43 4247.8 16.26 202.40
 100.00 8 51 47 2535.93 -29.75 62.31 14.70 93.06 9 34 2 1935.9 -29.01 53.59
 100.00 23 7 30 4600.77 20.72 190.99 6.52 97.96 24 24 11 4000.8 17.55 183.63
 110.00 10 10 51 2288.48 -33.84 43.18 14.35 95.16 10 49 0 1688.5 -32.75 34.11
 110.00 0 8 51 4420.99 24.48 175.59 4.76 65.37 1 22 32 3821.0 20.95 168.22

DIFFERENTIAL CORRECTIONS

TDE -2.5019 TRA 6.4063 TC3 -1.3039 BAU 1.1426
 RDE .4068 RRA .2873 RC3 -.0227 FAU .00623
 FDE -.5499 FRA 1.4261 FC3 -.0823 BSP 17742
 BDE 2.5348 BRA 6.4128 BC3 1.3041 FSP -320

MID-COURSE EXECUTION ACCURACY

SGT 5361.8 SGR 356.1 SG3 95.3
 RRT .2706 RRF .2648 RTF .9600
 SGB 5375.6 R23 .0041 R13 .9600
 SGI 5362.6 SG2 342.7 THA 1.03

ORBIT DETERMINATION ACCURACY

ST 2245.8 SR 294.5 SS 575.7
 CRT -.6417 CRS .6372 CST -.9998
 LSA 2326.1 MSA 225.2 SSA 11.3
 EL1 2253.8 EL2 225.1 ALF 175.14

LAUNCH DATE MAR 11 1969

FLIGHT TIME 206.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 593.773

RL 148.62 LAL .00 LOL 170.25 VL 25.406 GAL 16.04 AZL 93.23 MCA 311.55 SMA 116.37 ECC .38378 INC 3.2338 V1 29.980
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.457 GAP 22.16 AZP 92.15 TAL 149.99 TAP 101.54 RCA 71.71 APO 161.03 V2 35.258
 RC 214.754 GL -9.08 GP -10.87 ZAL 41.32 ZAP 167.30 ETS 241.08 ZAE 132.81 ETE 189.87 ZAC 150.67 ETC 12.41 CLP 173.38

PLANETOCENTRIC CONIC

C3 76.241 VML 8.732 DLA 9.05 RAL 129.76 RAD 6569.5 VEL 14.057 PTH 2.56 VHP 14.136 DPA 12.42 RAP 116.06 ECC 2.2547
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 37 16 2828.85 -28.27 83.93 18.86 91.76 8 24 25 2228.8 -27.72 75.31
 90.00 21 52 27 4904.00 20.64 213.33 11.31 70.18 23 14 11 4304.0 17.76 205.85
 100.00 9 3 1 2552.25 -29.80 63.52 18.79 92.43 9 45 34 1952.2 -29.15 54.78
 100.00 23 9 23 4655.83 22.09 194.51 10.74 69.33 24 26 58 4055.8 19.07 187.01
 110.00 10 21 20 2307.20 -33.94 44.63 18.51 94.31 10 59 47 1707.2 -32.97 35.53
 110.00 0 11 29 4473.64 25.93 179.00 9.05 66.91 1 26 3 3873.6 22.58 171.44

DIFFERENTIAL CORRECTIONS

TOE-2.7802 TRA 7.0058 TC3 -1.0618 BAU 1.0824
 RDE .4272 RRA .2844 RC3 -.0155 FAU .00494
 FDE -.5901 FRA 1.5127 FC3 -.0561 BSP 17714
 BOE 2.8129 BRA 7.0116 BC3 1.0619 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 5332.5 SGR 339.1 SG3 93.4
 RRT .2314 RRF .2292 RTF .9652
 SGB 5343.3 R23 .0051 R13 .9652
 SG1 5333.1 SG2 329.9 TMA .85

ORBIT DETERMINATION ACCURACY

ST 2298.2 SR 286.0 SS 599.4
 CRT -.6575 CRS .6515 CST -.9998
 LSA 2382.5 MSA 214.9 SSA 10.7
 EL1 2305.9 EL2 214.7 ALF 175.28

LAUNCH DATE MAR 11 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 596.886

RL 148.62 LAL .00 LOL 170.25 VL 25.369 GAL 17.70 AZL 93.59 MCA 314.78 SMA 116.17 ECC .40403 INC 3.5948 V1 29.980
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.432 GAP 23.46 AZP 92.53 TAL 148.89 TAP 103.67 RCA 69.24 APO 163.11 V2 35.259
 RC 216.204 GL -9.23 GP -10.74 ZAL 39.83 ZAP 166.83 ETS 236.76 ZAE 132.57 ETE 189.65 ZAC 148.51 ETC 12.32 CLP 172.34

PLANETOCENTRIC CONIC

C3 89.186 VML 9.444 DLA 8.49 RAL 131.22 RAD 6569.7 VEL 14.510 PTH 2.63 VHP 14.923 DPA 12.24 RAP 118.27 ECC 2.4678
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 47 30 2846.49 -28.30 85.22 22.79 91.11 8 34 56 2246.5 -27.84 76.58
 90.00 21 53 54 4957.53 21.84 216.80 15.37 71.52 23 16 32 4357.5 19.11 209.19
 100.00 9 12 58 2570.85 -29.85 64.90 22.74 91.70 9 55 48 1970.9 -29.29 56.14
 100.00 23 11 8 4708.41 23.31 197.94 14.82 70.74 24 29 36 4108.4 20.47 190.30
 110.00 10 30 36 2327.88 -34.04 46.24 22.53 93.36 11 9 24 1727.9 -33.20 37.10
 110.00 0 13 54 4524.14 27.24 182.34 13.21 68.50 1 29 19 3924.1 24.07 174.61

DIFFERENTIAL CORRECTIONS

TOE-3.0738 TRA 7.6579 TC3 -.8432 BAU 1.0055
 RDE .4501 RRA .2763 RC3 -.0097 FAU .00350
 FDE -.6321 FRA 1.6088 FC3 -.0340 BSP 17595
 BOE 3.1065 BRA 7.6629 BC3 .8433 FSP -307

MID-COURSE EXECUTION ACCURACY

SGT 5299.2 SGR 321.9 SG3 91.6
 RRT .1854 RRF .1866 RTF .9702
 SGB 5309.0 R23 .0063 R13 .9702
 SG1 5299.5 SG2 316.3 TMA .65

ORBIT DETERMINATION ACCURACY

ST 2337.9 SR 277.8 SS 624.6
 CRT -.6738 CRS .6663 CST -.9998
 LSA 2427.2 MSA 204.8 SSA 10.1
 EL1 2345.5 EL2 204.6 ALF 175.39

LAUNCH DATE MAR 11 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 599.442

RL 148.62 LAL .00 LOL 170.25 VL 25.333 GAL 19.54 AZL 94.00 MCA 318.02 SMA 115.99 ECC .42685 INC 3.9987 V1 29.980
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.408 GAP 24.94 AZP 92.97 TAL 147.94 TAP 105.96 RCA 66.48 APO 165.50 V2 35.260
 RC 217.629 GL -9.35 GP -10.62 ZAL 38.54 ZAP 166.24 ETS 232.52 ZAE 132.25 ETE 189.43 ZAC 146.44 ETC 12.26 CLP 171.21

PLANETOCENTRIC CONIC

C3 104.947 VML 10.244 DLA 8.02 RAL 132.50 RAD 6570.0 VEL 15.043 PTH 2.71 VHP 15.816 DPA 12.04 RAP 120.40 ECC 2.7272
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 56 22 2866.29 -28.31 86.67 26.54 90.39 8 44 8 2266.3 -27.96 78.02
 90.00 21 55 16 5008.07 22.89 220.13 19.25 72.86 23 18 44 4408.1 20.33 212.40
 100.00 9 21 34 2591.45 -29.88 66.44 26.52 90.90 10 4 46 1991.5 -29.44 57.66
 100.00 23 12 44 4758.14 24.39 201.24 18.74 72.15 24 32 2 4158.1 21.72 193.46
 110.00 10 38 39 2350.25 -34.11 47.98 26.38 92.33 11 17 49 1750.3 -33.41 38.81
 110.00 0 16 5 4572.10 28.39 185.59 17.21 70.11 1 32 17 3972.1 25.42 177.68

DIFFERENTIAL CORRECTIONS

TOE-3.3931 TRA 8.3616 TC3 -.6505 BAU .9128
 RDE .4758 RRA .2616 RC3 -.0054 FAU .00195
 FDE -.6783 FRA 1.7141 FC3 -.0161 BSP 17565
 BOE 3.4263 BRA 8.3657 BC3 .6506 FSP -301

MID-COURSE EXECUTION ACCURACY

SGT 5261.4 SGR 304.6 SG3 89.9
 RRT .1294 RRF .1339 RTF .9749
 SGB 5270.2 R23 .0075 R13 .9749
 SG1 5261.5 SG2 302.0 TMA .43

ORBIT DETERMINATION ACCURACY

ST 2368.6 SR 269.8 SS 652.9
 CRT -.6920 CRS .6833 CST -.9998
 LSA 2464.0 MSA 194.5 SSA 9.4
 EL1 2376.0 EL2 194.1 ALF 175.46

LAUNCH DATE MAR 11 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 601.293

RL 148.62 LAL .00 LOL 170.25 VL 25.300 GAL 21.60 AZL 94.46 MCA 321.25 SMA 115.82 ECC .45263 INC 4.4568 V1 29.980
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.385 GAP 26.62 AZP 93.48 TAL 147.18 TAP 108.43 RCA 63.40 APO 168.24 V2 35.261
 RC 219.026 GL -9.44 GP -10.51 ZAL 37.43 ZAP 165.53 ETS 228.36 ZAE 131.83 ETE 189.18 ZAC 144.45 ETC 12.21 CLP 169.99

PLANETOCENTRIC CONIC

C3 124.286 VML 11.148 DLA 7.62 RAL 133.59 RAD 6570.3 VEL 15.672 PTH 2.79 VHP 16.834 DPA 11.82 RAP 122.43 ECC 3.0454
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 3 49 2887.97 -28.31 88.25 30.08 89.59 8 51 57 2288.0 -28.07 79.60
 90.00 21 56 31 5055.19 23.80 223.28 22.92 74.19 23 20 46 4455.2 21.41 215.43
 100.00 9 28 49 2613.80 -29.89 68.10 30.09 90.02 10 12 23 2013.8 -29.57 59.31
 100.00 23 14 12 4804.59 25.32 204.38 22.43 73.55 24 34 16 4204.6 22.82 196.47
 110.00 10 45 25 2374.05 -34.16 49.84 30.04 91.24 11 24 59 1774.1 -33.61 40.64
 110.00 0 18 0 4617.10 29.40 188.71 21.00 71.71 1 34 58 4017.1 26.62 180.63

DIFFERENTIAL CORRECTIONS

TOE-3.7357 TRA 9.1291 TC3 -.4794 BAU .7966
 RDE .5051 RRA .2388 RC3 -.0023 FAU .00014
 FDE -.7283 FRA 1.8316 FC3 -.0010 BSP 17517
 BOE 3.7697 BRA 9.1322 BC3 .4794 FSP -296

MID-COURSE EXECUTION ACCURACY

SGT 5218.8 SGR 287.6 SG3 88.2
 RRT .0621 RRF .0697 RTF .9792
 SGB 5226.7 R23 .0087 R13 .9792
 SG1 5218.8 SG2 287.1 TMA .20

ORBIT DETERMINATION ACCURACY

ST 2388.3 SR 262.2 SS 684.1
 CRT -.7115 CRS .7019 CST -.9998
 LSA 2491.3 MSA 184.1 SSA 8.9
 EL1 2395.6 EL2 183.7 ALF 175.51

LAUNCH DATE MAR 11 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 11 1969

HELIOCENTRIC CONIC

DISTANCE 602.244

RL 148.62 LAL .00 LOL 170.25 VL 25.269 GAL 23.92 AZL 94.98 MCA 324.49 SMA 115.66 ECC .48186 INC 4.9844 V1 29.980
 RP 107.47 LAP 2.89 LOP 134.84 VP 36.364 GAP 28.54 AZP 94.06 TAL 146.64 TAP 111.13 RCA 59.93 APO 171.40 V2 35.260
 RC 220.396 GL -9.49 GP -10.40 ZAL 36.53 ZAP 164.66 ETS 224.31 ZAE 131.29 ETE 188.92 ZAC 142.58 ETC 12.19 CLP 168.66

PLANETOCENTRIC CONIC

C3 148.224 VHL 12.175 DLA 7.31 RAL 134.48 RAD 6570.6 VEL 16.418 PTH 2.87 VHP 18.001 DPA 11.59 RAP 124.34 ECC 3.4394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 9 45 2911.35 -28.29 89.97 33.38 88.73 8 58 17 2311.4 -28.17 81.30
 90.00 21 57 39 5098.39 24.57 226.22 26.31 75.47 23 22 37 4498.4 22.34 218.26
 100.00 9 34 36 2637.70 -29.88 69.87 33.42 89.09 10 18 34 2037.7 -29.69 61.07
 100.00 23 15 29 4847.28 26.11 207.30 25.86 74.90 24 36 16 4247.3 23.78 199.28
 110.00 10 50 31 2399.07 -34.18 51.79 33.45 90.08 11 30 50 1799.1 -33.79 42.57
 110.00 0 19 39 4658.66 30.25 191.65 24.52 73.26 1 37 18 4058.7 27.66 183.41

DIFFERENTIAL CORRECTIONS

TDE -4.1052 TRA 9.9691 TC3 -.3286 BAU .6512
 RDE -.5386 RRA .2062 RC3 -.0004 FAU-.00200
 FDE -.7831 FRA 1.9634 FC3 .0117 BSP 17441
 BOE 4.1404 BRA 9.9712 BC3 .3286 FSP -291

MID-COURSE EXECUTION ACCURACY

SGT 5171.6 SGR 271.7 SG3 86.6
 RRT -.0187 RRF -.0085 RTF .9831
 SGB 5178.7 R23 -.0099 R13 -.9831
 SG1 5171.6 SG2 271.7 THA 179.94

ORBIT DETERMINATION ACCURACY

ST 2397.2 SR 255.2 SS 719.4
 CRT -.7325 CRS .7220 CST -.9998
 LSA 2509.8 MSA 173.8 SSA 8.3
 EL1 2404.5 EL2 173.2 ALF 175.52

LAUNCH DATE MAR 11 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 13 1969

HELIOCENTRIC CONIC

DISTANCE 602.038

RL 148.62 LAL .00 LOL 170.25 VL 25.242 GAL 26.54 AZL 95.60 MCA 327.72 SMA 115.52 ECC .51509 INC 5.6025 V1 29.980
 RP 107.48 LAP 2.99 LOP 138.09 VP 36.343 GAP 30.77 AZP 94.74 TAL 146.38 TAP 114.10 RCA 56.02 APO 175.03 V2 35.259
 RC 221.738 GL -9.51 GP -10.28 ZAL 35.86 ZAP 163.62 ETS 220.37 ZAE 130.62 ETE 188.62 ZAC 140.84 ETC 12.20 CLP 167.18

PLANETOCENTRIC CONIC

C3 178.135 VHL 13.347 DLA 7.09 RAL 135.14 RAD 6570.9 VEL 17.305 PTH 2.95 VHP 19.349 DPA 11.37 RAP 126.11 ECC 3.9316
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 14 4 2936.33 -28.24 91.79 36.40 87.82 9 3 1 2336.3 -28.24 83.13
 90.00 21 58 38 5137.10 25.21 228.87 29.38 76.65 23 24 15 4537.1 23.12 220.82
 100.00 9 38 49 2663.03 -29.84 71.76 36.46 88.10 10 23 12 2063.0 -29.78 62.95
 100.00 23 16 34 4885.63 26.76 209.97 28.96 76.16 24 38 0 4285.6 24.59 201.84
 110.00 10 54 49 2425.19 -34.17 53.83 36.60 88.87 11 35 14 1825.2 -33.95 44.59
 110.00 0 21 0 4696.24 30.95 194.35 27.71 74.71 1 39 16 4096.2 28.55 185.98

DIFFERENTIAL CORRECTIONS

TDE -4.4998 TRA10.8930 TC3 -.1957 BAU .4661
 RDE -.5776 RRA .1612 RC3 .0004 FAU-.00466
 FDE -.8429 FRA 2.1128 FC3 .0227 BSP 17256
 BOE 4.5367 BRA10.8942 BC3 .1957 FSP -285

MID-COURSE EXECUTION ACCURACY

SGT 5119.6 SGR 257.6 SG3 85.1
 RRT -.1144 RRF -.1021 RTF .9866
 SGB 5126.1 R23 -.0111 R13 -.9866
 SG1 5119.7 SG2 255.9 THA 179.67

ORBIT DETERMINATION ACCURACY

ST 2393.8 SR 248.8 SS 759.0
 CRT -.7544 CRS .7434 CST -.9998
 LSA 2518.2 MSA 163.6 SSA 7.7
 EL1 2401.2 EL2 162.8 ALF 175.49

LAUNCH DATE MAR 11 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 15 1969

HELIOCENTRIC CONIC

DISTANCE 600.329

RL 148.62 LAL .00 LOL 170.25 VL 25.218 GAL 29.53 AZL 96.34 MCA 330.94 SMA 115.41 ECC .55290 INC 6.3417 V1 29.980
 RP 107.48 LAP 3.08 LOP 141.34 VP 36.325 GAP 33.36 AZP 95.55 TAL 146.47 TAP 117.41 RCA 51.60 APO 179.21 V2 35.257
 RC 223.054 GL -9.49 GP -10.16 ZAL 35.45 ZAP 162.38 ETS 216.55 ZAE 129.76 ETE 188.28 ZAC 139.27 ETC 12.22 CLP 165.53

PLANETOCENTRIC CONIC

C3 215.882 VHL 14.693 DLA 6.98 RAL 135.56 RAD 6571.2 VEL 18.363 PTH 3.03 VHP 20.914 DPA 11.16 RAP 127.70 ECC 4.5529
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 16 34 2962.92 -28.16 93.73 39.07 86.85 9 5 57 2362.9 -28.30 85.07
 90.00 21 59 26 5170.64 25.71 231.20 32.05 77.71 23 25 37 4570.6 23.76 223.07
 100.00 9 41 15 2689.79 -29.76 73.74 39.17 87.06 10 26 5 2089.8 -29.85 64.94
 100.00 23 17 26 4919.00 27.28 212.31 31.66 77.29 24 39 25 4319.0 25.26 204.09
 110.00 10 57 8 2452.34 -34.11 55.95 39.41 87.62 11 38 0 1852.3 -34.06 46.71
 110.00 0 21 59 4729.22 31.52 196.75 30.50 76.03 1 40 48 4129.2 29.28 188.26

DIFFERENTIAL CORRECTIONS

TDE -4.9298 TRA11.9004 TC3 -.0815 BAU .2353
 RDE .6233 RRA .1009 RC3 .0002 FAU-.00794
 FDE -.9104 FRA 2.2808 FC3 .0318 BSP 17164
 BOE 4.9690 BRA11.9009 BC3 .0815 FSP -281

MID-COURSE EXECUTION ACCURACY

SGT 5060.8 SGR 246.3 SG3 83.7
 RRT -.2262 RRF -.2126 RTF .9896
 SGB 5066.8 R23 -.0121 R13 -.9895
 SG1 5061.1 SG2 239.9 THA 179.37

ORBIT DETERMINATION ACCURACY

ST 2379.7 SR 243.4 SS 804.7
 CRT -.7781 CRS .7667 CST -.9998
 LSA 2519.1 MSA 153.4 SSA 7.1
 EL1 2387.2 EL2 152.4 ALF 175.43

LAUNCH DATE MAR 11 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 17 1969

HELIOCENTRIC CONIC

DISTANCE 596.670

RL 148.62 LAL .00 LOL 170.25 VL 25.200 GAL 32.98 AZL 97.25 MCA 334.16 SMA 115.31 ECC .59589 INC 7.2475 V1 29.980
 RP 107.49 LAP 3.15 LOP 144.59 VP 36.310 GAP 36.40 AZP 96.53 TAL 146.98 TAP 121.14 RCA 46.60 APO 184.03 V2 35.254
 RC 224.343 GL -9.45 GP -10.03 ZAL 35.32 ZAP 160.90 ETS 212.84 ZAE 128.70 ETE 187.90 ZAC 137.91 ETC 12.27 CLP 163.67

PLANETOCENTRIC CONIC

C3 263.998 VHL 16.248 DLA 6.99 RAL 135.69 RAD 6571.5 VEL 19.629 PTH 3.12 VHP 22.741 DPA 11.00 RAP 129.09 ECC 5.3447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 17 0 2991.26 -28.03 95.80 41.36 85.82 9 6 51 2391.3 -28.32 87.14
 90.00 22 0 2 5198.25 26.10 233.13 34.24 78.61 23 26 41 4598.3 24.27 224.94
 100.00 9 41 41 2718.11 -29.64 75.84 41.49 85.96 10 26 59 2118.1 -29.89 67.04
 100.00 23 18 2 4946.63 27.68 214.26 33.88 78.24 24 40 29 4346.6 25.78 205.98
 110.00 10 57 34 2480.62 -34.01 58.15 41.84 86.32 11 38 55 1880.6 -34.14 48.91
 110.00 0 22 34 4756.88 31.96 198.79 32.80 77.16 1 41 51 4156.9 29.86 190.21

DIFFERENTIAL CORRECTIONS

TDE -5.3884 TRA13.0005 TC3 .0166 BAU .0588
 RDE .6775 RRA .0216 RC3 -.0010 FAU-.01214
 FDE -.9852 FRA 2.4716 FC3 .0398 BSP 17026
 BOE 5.4308 BRA13.0005 BC3 .0167 FSP -277

MID-COURSE EXECUTION ACCURACY

SGT 4994.7 SGR 239.0 SG3 82.4
 RRT -.3506 RRF -.3365 RTF .9921
 SGB 5000.4 R23 -.0129 R13 -.9921
 SG1 4995.4 SG2 223.8 THA 179.04

ORBIT DETERMINATION ACCURACY

ST 2351.7 SR 238.9 SS 856.7
 CRT -.8023 CRS .7909 CST -.9998
 LSA 2510.1 MSA 143.4 SSA 6.6
 EL1 2359.5 EL2 142.2 ALF 175.32

LAUNCH DATE MAR 12 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 21 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 29.513 GAL -14.77 AZL 90.58 MCA 95.01 SMA 145.14 ECC .25606 INC .5838 VI 29.972
 RP 108.73 LAP -.58 LOP 266.26 VP 39.074 GAP -3.05 AZP 89.95 TAL 249.96 TAP 344.97 RCA 107.97 APO 182.30 V2 34.853
 RC 72.672 GL -2.05 GP 26.32 ZAL 169.64 ZAP 64.50 ETS 348.66 ZAE 154.78 ETE 75.55 ZAC 108.67 ETC 155.15 CLP -61.29

DISTANCE 208.186

PLANETOCENTRIC CONIC
 C3 65.970 VHL 8.122 DLA -1.32 RAL 2.11 RAD 6569.3 VEL 13.687 PTH 2.50 VHP 5.212 DPA 31.08 RAP 12.29 ECC 2.0857
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 22 30 2469.29 -24.82 58.28 243.71 104.08 1 3 40 1869.3 -22.64 50.29
 90.00 12 0 56 5195.34 26.06 232.93 244.82 78.51 13 27 31 4595.3 24.21 224.74
 100.00 1 43 14 2208.89 -26.21 38.74 243.31 104.92 2 20 3 1608.9 -23.90 30.70
 100.00 13 22 53 4930.98 27.46 213.15 244.49 77.70 14 45 4 4331.0 25.49 204.91
 110.00 2 50 4 1999.68 -29.95 21.63 242.09 107.31 3 23 24 1399.7 -27.29 13.45
 110.00 14 32 33 4712.95 31.25 195.56 243.45 75.38 15 51 6 4112.9 28.92 187.13

DIFFERENTIAL CORRECTIONS
 TDE -.2920 TRA -.6655 TC3 .0018 BAU .2105
 RDE -.3222 RRA .4410 RC3 .2387 FAU .09003
 FDE -1.1082 FRA -1.0790 FC3 -1.1815 BSP 1310
 BDE .4348 BRA .7983 BC3 .2387 FSP -551

MID-COURSE EXECUTION ACCURACY
 SGT 512.8 SGR 546.7 S63 190.8
 RRT -.3503 RRF -.6657 RTF .4532
 S68 749.5 R23 .1281 R13 -.6942
 S61 617.0 S62 425.5 THA 129.82

ORBIT DETERMINATION ACCURACY
 ST 249.5 SR 246.0 SS 367.7
 CRT .5485 CRS -.7752 CST -.9482
 LSA 478.0 MSA 170.5 SSA 20.4
 EL1 308.3 EL2 166.5 ALF 44.26

LAUNCH DATE MAR 12 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 29.501 GAL -14.61 AZL 90.77 MCA 98.18 SMA 145.02 ECC .25334 INC .7735 VI 29.972
 RP 108.76 LAP -.77 LOP 269.43 VP 39.057 GAP -2.40 AZP 89.89 TAL 249.89 TAP 348.07 RCA 108.28 APO 181.76 V2 34.844
 RC 74.919 GL -2.75 GP 27.41 ZAL 169.43 ZAP 69.18 ETS 350.86 ZAE 154.07 ETE 83.42 ZAC 106.63 ETC 155.88 CLP -66.40

DISTANCE 214.697

PLANETOCENTRIC CONIC
 C3 64.643 VHL 8.040 DLA -1.94 RAL 2.42 RAD 6569.2 VEL 13.638 PTH 2.49 VHP 5.052 DPA 31.25 RAP 9.91 ECC 2.0639
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 28 23 2445.17 -24.41 56.64 243.43 104.81 1 9 8 1845.2 -22.14 48.70
 90.00 11 57 35 5209.72 26.25 233.94 245.06 78.98 13 24 25 4609.7 24.47 225.72
 100.00 1 48 49 2185.70 -25.79 37.14 243.02 105.66 2 25 15 1585.7 -23.39 29.16
 100.00 13 19 50 4944.42 27.65 214.11 244.74 78.17 14 42 15 4344.4 25.74 205.83
 110.00 2 54 59 1978.57 -29.51 20.15 241.74 108.09 3 27 58 1378.6 -26.76 12.04
 110.00 14 30 10 4724.32 31.44 196.39 243.73 75.83 15 48 54 4124.3 29.17 187.92

DIFFERENTIAL CORRECTIONS
 TDE -.3223 TRA -.7183 TC3 -.0373 BAU .2283
 RDE -.2964 RRA .4473 RC3 .2616 FAU .09463
 FDE -1.2013 FRA -1.1146 FC3 -1.2673 BSP 1511
 BDE .4379 BRA .8462 BC3 .2642 FSP -591

MID-COURSE EXECUTION ACCURACY
 SGT 564.5 SGR 568.5 S63 203.0
 RRT -.4364 RRF -.6962 RTF .5475
 S68 801.2 R23 .1347 R13 -.7348
 S61 679.0 S62 425.3 THA 134.53

ORBIT DETERMINATION ACCURACY
 ST 276.4 SR 232.2 SS 388.8
 CRT .5266 CRS -.7601 CST -.9481
 LSA 501.3 MSA 172.4 SSA 20.5
 EL1 317.4 EL2 171.9 ALF 35.82

LAUNCH DATE MAR 12 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 29.481 GAL -14.44 AZL 90.97 MCA 101.35 SMA 144.83 ECC .25073 INC .9663 VI 29.972
 RP 108.78 LAP -.95 LOP 272.59 VP 39.034 GAP -1.79 AZP 89.81 TAL 249.69 TAP 351.04 RCA 108.52 APO 181.15 V2 34.835
 RC 77.194 GL -3.47 GP 28.46 ZAL 169.12 ZAP 73.87 ETS 353.12 ZAE 153.01 ETE 91.05 ZAC 104.58 ETC 156.68 CLP -71.57

DISTANCE 221.160

PLANETOCENTRIC CONIC
 C3 63.372 VHL 7.961 DLA -2.56 RAL 2.81 RAD 6569.2 VEL 13.591 PTH 2.48 VHP 4.926 DPA 31.35 RAP 7.51 ECC 2.0429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 31 2421.28 -23.99 55.01 243.25 105.51 1 14 52 1821.3 -21.63 47.14
 90.00 11 54 34 5224.05 26.43 234.94 245.37 79.46 13 21 36 4624.0 24.71 226.70
 100.00 1 54 40 2162.73 -25.36 35.57 242.82 106.38 2 30 42 1562.7 -22.87 27.66
 100.00 13 17 6 4957.83 27.83 215.06 245.06 78.64 14 39 44 4357.8 25.98 206.75
 110.00 3 0 10 1957.66 -29.06 18.69 241.50 108.84 3 32 46 1357.7 -26.21 10.66
 110.00 14 28 5 4735.66 31.63 197.23 244.09 76.29 15 47 1 4135.7 29.42 188.71

DIFFERENTIAL CORRECTIONS
 TDE -.3577 TRA -.7750 TC3 -.0813 BAU .2504
 RDE -.2691 RRA .4510 RC3 .2841 FAU .09853
 FDE -1.2902 FRA -1.1384 FC3 -1.3460 BSP 1753
 BDE .4476 BRA .8966 BC3 .2955 FSP -633

MID-COURSE EXECUTION ACCURACY
 SGT 628.3 SGR 589.7 S63 213.9
 RRT -.5131 RRF -.7235 RTF .6265
 S68 861.7 R23 .1391 R13 -.7696
 S61 750.2 S62 423.9 THA 138.53

ORBIT DETERMINATION ACCURACY
 ST 307.2 SR 217.3 SS 409.8
 CRT .5018 CRS -.7410 CST -.9486
 LSA 528.3 MSA 173.1 SSA 20.5
 EL1 334.3 EL2 172.7 ALF 27.43

LAUNCH DATE MAR 12 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 29.453 GAL -14.28 AZL 91.16 MCA 104.51 SMA 144.57 ECC .24821 INC 1.1632 VI 29.972
 RP 108.81 LAP -1.13 LOP 275.76 VP 39.005 GAP -1.22 AZP 89.71 TAL 249.37 TAP 353.88 RCA 108.69 APO 180.46 V2 34.827
 RC 79.493 GL -4.22 GP 29.45 ZAL 168.70 ZAP 78.49 ETS 355.44 ZAE 151.63 ETE 98.22 ZAC 102.57 ETC 157.52 CLP -76.75

DISTANCE 227.578

PLANETOCENTRIC CONIC
 C3 62.143 VHL 7.883 DLA -3.18 RAL 3.27 RAD 6569.2 VEL 13.546 PTH 2.48 VHP 4.834 DPA 31.39 RAP 5.15 ECC 2.0227
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 40 56 2397.38 -23.54 53.40 243.15 106.20 1 20 53 1797.4 -21.10 45.59
 90.00 11 51 48 5238.49 26.61 235.97 245.76 79.94 13 19 6 4638.5 24.95 227.69
 100.00 2 0 48 2139.76 -24.91 34.01 242.70 107.08 2 36 27 1539.8 -22.33 26.16
 100.00 13 14 38 4971.33 28.01 216.03 245.46 79.11 14 37 29 4371.3 26.22 207.68
 110.00 3 5 38 1936.78 -28.55 17.24 241.33 109.58 3 37 55 1336.8 -25.66 9.29
 110.00 14 26 16 4747.09 31.81 198.07 244.53 76.76 15 45 23 4147.1 29.66 189.52

DIFFERENTIAL CORRECTIONS
 TDE -.3993 TRA -.8356 TC3 -.1302 BAU .2757
 RDE -.2420 RRA .4503 RC3 .3052 FAU .10132
 FDE -1.3659 FRA -1.1422 FC3 -1.4116 BSP 2017
 BDE .4669 BRA .9492 BC3 .3319 FSP -662

MID-COURSE EXECUTION ACCURACY
 SGT 704.5 SGR 608.2 S63 222.5
 RRT -.5767 RRF -.7464 RTF .6895
 S68 930.8 R23 .1438 R13 -.7981
 S61 829.6 S62 422.0 THA 142.17

ORBIT DETERMINATION ACCURACY
 ST 342.9 SR 202.0 SS 428.4
 CRT .4766 CRS -.7195 CST -.9498
 LSA 558.3 MSA 172.6 SSA 20.6
 EL1 360.3 EL2 169.0 ALF 20.35

LAUNCH DATE MAR 12 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 233.950

RL 148.66 LAL .00 LOL 171.24 VL 29.418 GAL -14.12 AZL 91.37 MCA 107.67 SMA 144.25 ECC .24577 INC 1.3657 V1 29.972
 RP 108.83 LAP -1.30 LOP 278.92 VP 38.972 GAP -.67 AZP 89.59 TAL 248.94 TAP 356.61 RCA 108.80 APO 179.70 V2 34.820
 RC 81.813 GL -5.00 GP 30.38 ZAL 168.18 ZAP 83.01 ETS 357.83 ZAE 149.98 ETE 104.77 ZAC 100.64 ETC 158.38 CLP -81.89

PLANETOCENTRIC CONIC

C3 60.952 VML 7.807 OLA -3.80 RAL 3.80 RAD 6569.1 VEL 13.502 PTH 2.47 VHP 4.771 DPA 31.39 RAP 2.87 ECC 2.0031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 42 2373.25 -23.08 51.79 243.13 106.88 1 27 15 1773.3 -20.55 44.03
 90.00 11 49 14 5253.23 26.78 237.01 246.22 80.44 13 16 47 4653.2 25.19 228.71
 100.00 2 7 16 2116.59 -24.44 32.45 242.66 107.77 2 42 32 1516.6 -21.78 24.67
 100.00 13 12 21 4985.13 28.19 217.02 245.94 79.61 14 35 27 4385.1 26.46 208.64
 110.00 3 11 26 1915.72 -28.10 15.80 241.25 110.31 3 43 21 1315.7 -25.08 7.93
 110.00 14 24 41 4758.76 31.99 198.93 245.04 77.24 15 44 0 4158.8 29.90 190.34

DIFFERENTIAL CORRECTIONS

TDE -.4463 TRA -.8982 TC3 -.1832 BAU .3041
 RDE -.2140 RRA .4461 RC3 .3252 FAU .10319
 FDE -1.4329 FRA -1.1323 FC3 -1.4656 BSP 2314
 BOE .4950 BRA 1.0029 BC3 .3732 FSP -.691

MID-COURSE EXECUTION ACCURACY

SGT 790.9 SGR 624.6 SG3 229.2
 RRT -.6286 RRF -.7666 RTF .7384
 SGB 1007.8 R23 .1484 R13 -.8212
 SG1 916.5 SG2 419.2 THA 145.38

ORBIT DETERMINATION ACCURACY

ST 383.0 SR 186.0 SS 446.5
 CRT .4466 CRS -.6927 CST -.9513
 LSA 592.4 MSA 171.0 SSA 20.6
 EL1 393.8 EL2 161.8 ALF 14.79

LAUNCH DATE MAR 12 1969

FLIGHT TIME 80.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 240.280

RL 148.66 LAL .00 LOL 171.24 VL 29.376 GAL -13.96 AZL 91.58 MCA 110.83 SMA 143.87 ECC .24339 INC 1.5754 V1 29.972
 RP 108.85 LAP -1.47 LOP 282.08 VP 38.935 GAP -.15 AZP 89.44 TAL 248.40 TAP 359.24 RCA 108.85 APO 178.88 V2 34.813
 RC 84.153 GL -5.82 GP 31.25 ZAL 167.56 ZAP 87.38 ETS .26 ZAE 148.12 ETE 110.63 ZAC 98.81 ETC 159.22 CLP -86.93

PLANETOCENTRIC CONIC

C3 59.793 VML 7.733 OLA -4.44 RAL 4.39 RAD 6569.1 VEL 13.459 PTH 2.46 VHP 4.738 DPA 31.39 RAP .73 ECC 1.9840
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 54 51 2348.65 -22.58 50.16 243.19 107.56 1 34 0 1748.7 -19.97 42.46
 90.00 11 46 49 5268.49 26.95 238.10 246.76 80.96 13 14 38 4668.5 25.42 229.76
 100.00 2 14 7 2092.97 -23.94 30.88 242.71 108.46 2 49 0 1493.0 -21.19 23.15
 100.00 13 10 15 4999.40 28.36 218.04 246.50 80.12 14 33 34 4399.4 26.70 209.63
 110.00 3 17 35 1894.28 -27.59 14.34 241.25 111.03 3 49 9 1294.3 -24.48 6.55
 110.00 14 23 16 4770.86 32.16 199.83 245.64 77.75 15 42 47 4170.9 30.14 191.20

DIFFERENTIAL CORRECTIONS

TDE -.4991 TRA -.9622 TC3 -.2396 BAU .3345
 RDE -.1865 RRA .4373 RC3 .3430 FAU .10386
 FDE -1.4850 FRA -1.1037 FC3 -1.5037 BSP 2625
 BOE .5328 BRA 1.0569 BC3 .4184 FSP -.707

MID-COURSE EXECUTION ACCURACY

SGT 886.2 SGR 637.3 SG3 233.3
 RRT -.6690 RRF -.7834 RTF .7753
 SGB 1091.6 R23 .1542 R13 -.8391
 SG1 1009.2 SG2 416.0 THA 148.32

ORBIT DETERMINATION ACCURACY

ST 427.7 SR 169.9 SS 462.4
 CRT .4132 CRS -.6616 CST -.9531
 LSA 629.9 MSA 168.4 SSA 20.5
 EL1 434.2 EL2 152.4 ALF 10.65

LAUNCH DATE MAR 12 1969

FLIGHT TIME 82.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 246.567

RL 148.66 LAL .00 LOL 171.24 VL 29.329 GAL -13.80 AZL 91.79 MCA 113.99 SMA 143.44 ECC .24106 INC 1.7941 V1 29.972
 RP 108.87 LAP -1.64 LOP 285.25 VP 38.894 GAP .34 AZP 89.27 TAL 247.77 TAP 1.76 RCA 108.86 APO 178.02 V2 34.807
 RC 86.508 GL -6.69 GP 32.08 ZAL 166.84 ZAP 91.56 ETS 2.74 ZAE 146.11 ETE 115.78 ZAC 97.13 ETC 160.01 CLP -91.84

PLANETOCENTRIC CONIC

C3 58.665 VML 7.659 OLA -5.10 RAL 5.06 RAD 6569.1 VEL 13.417 PTH 2.45 VHP 4.730 DPA 31.40 RAP 358.74 ECC 1.9655
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 2 29 2323.33 -22.05 48.49 243.32 108.23 1 41 12 1723.3 -19.35 40.85
 90.00 11 44 29 5284.51 27.11 239.24 247.39 81.51 13 12 34 4684.5 25.66 230.87
 100.00 2 21 25 2068.68 -23.40 29.27 242.83 109.15 2 55 54 1468.7 -20.58 21.61
 100.00 13 8 14 5014.40 28.53 219.12 247.14 80.67 14 31 48 4414.4 26.94 210.68
 110.00 3 24 9 1872.26 -27.04 12.86 241.33 111.75 3 55 22 1272.3 23.85 5.16
 110.00 14 21 59 4783.59 32.34 200.78 246.31 78.28 15 41 42 4183.6 30.59 192.11

DIFFERENTIAL CORRECTIONS

TDE -.5574 TRA -1.0260 TC3 -.2988 BAU .3665
 RDE -.1587 RRA .4248 RC3 .3593 FAU .10358
 FDE -1.5269 FRA -1.0628 FC3 -1.5286 BSP 2958
 BOE .5795 BRA 1.1105 BC3 .4673 FSP -720

MID-COURSE EXECUTION ACCURACY

SGT 988.5 SGR 647.1 SG3 235.4
 RRT -.7008 RRF -.7984 RTF .8031
 SGB 1181.5 R23 .1609 R13 -.8533
 SG1 1107.3 SG2 412.1 THA 150.96

ORBIT DETERMINATION ACCURACY

ST 477.0 SR 153.4 SS 477.7
 CRT .3709 CRS -.6217 CST -.9551
 LSA 672.1 MSA 164.8 SSA 20.5
 EL1 480.7 EL2 141.3 ALF 7.45

LAUNCH DATE MAR 12 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 252.816

RL 148.66 LAL .00 LOL 171.24 VL 29.278 GAL -13.63 AZL 92.02 MCA 117.15 SMA 142.97 ECC .23877 INC 2.0236 V1 29.972
 RP 108.89 LAP -1.80 LOP 288.41 VP 38.850 GAP .81 AZP 89.08 TAL 247.05 TAP 4.20 RCA 108.83 APO 177.11 V2 34.802
 RC 88.877 GL -7.61 GP 32.87 ZAL 166.02 ZAP 95.52 ETS 5.26 ZAE 144.00 ETE 120.26 ZAC 95.60 ETC 160.74 CLP -96.58

PLANETOCENTRIC CONIC

C3 57.569 VML 7.587 OLA -5.79 RAL 5.79 RAD 6569.0 VEL 13.376 PTH 2.44 VHP 4.746 DPA 31.45 RAP 356.93 ECC 1.9474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 10 38 2297.01 -21.48 46.77 243.54 108.91 1 48 55 1697.0 -18.70 39.20
 90.00 11 42 10 5301.61 27.28 240.46 248.10 82.10 13 10 32 4701.6 25.91 232.07
 100.00 2 29 14 2043.45 -22.83 27.61 243.03 109.84 3 3 18 1443.4 -19.92 20.03
 100.00 13 6 15 5030.41 28.70 220.28 247.87 81.25 14 30 5 4430.4 27.19 211.81
 110.00 3 31 12 1849.42 -26.46 11.35 241.48 112.48 4 2 2 1249.4 -23.18 3.72
 110.00 14 20 46 4797.19 32.53 201.80 247.09 78.86 15 40 43 4197.2 30.65 193.08

DIFFERENTIAL CORRECTIONS

TDE -.6213 TRA -1.0888 TC3 -.3600 BAU .3993
 RDE -.1308 RRA .4087 RC3 .3735 FAU .10235
 FDE -1.5571 FRA -1.0100 FC3 -1.5391 BSP 3308
 BOE .6349 BRA 1.1629 BC3 .5187 FSP -727

MID-COURSE EXECUTION ACCURACY

SGT 1096.1 SGR 653.6 SG3 235.4
 RRT -.7253 RRF -.8116 RTF .8240
 SGB 1276.2 R23 .1689 R13 -.8643
 SG1 1209.3 SG2 407.9 THA 153.34

ORBIT DETERMINATION ACCURACY

ST 530.9 SR 136.7 SS 492.1
 CRT .3166 CRS -.5699 CST -.9571
 LSA 718.7 MSA 160.5 SSA 20.4
 EL1 532.8 EL2 129.3 ALF 4.95

LAUNCH DATE MAR 12 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 259.027

RL 148.66 LAL .00 LOL 171.24 VL 29.221 GAL -13.46 AZL 92.27 HCA 120.31 SMA 142.47 ECC .23653 INC 2.2664 V1 29.972
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.804 GAP 1.25 AZP 88.86 TAL 246.24 TAP 6.55 RCA 108.77 APO 176.16 V2 34.797
 RC 91.256 GL -8.60 GP 33.66 ZAL 165.11 ZAP 99.24 ETS 7.82 ZAE 141.85 ETE 124.12 ZAC 94.25 ETC 161.40 CLP-101.12

PLANETOCENTRIC CONIC

C3 56.510 VML 7.517 DLA -6.52 RAL 6.59 RAD 6569.0 VEL 13.337 PTH 2.44 VHP 4.784 DPA 31.58 RAP 355.30 ECC 1.9300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 19 25 2269.38 -20.86 44.98 243.84 109.60 1 57 15 1669.4 -18.00 37.48
 90.00 11 39 48 5320.13 27.45 241.79 248.91 82.75 13 8 28 4720.1 26.16 233.36
 100.00 2 37 40 2016.98 -22.21 25.89 243.31 110.54 3 11 17 1417.0 -19.21 18.38
 100.00 13 4 15 5047.76 28.87 221.54 248.70 81.90 14 28 22 4447.8 27.45 213.03
 110.00 3 38 49 1825.53 -25.83 9.78 241.72 113.22 4 9 14 1225.5 -22.46 2.24
 110.00 14 19 35 4811.97 32.72 202.91 247.96 79.49 15 39 47 4212.0 30.92 194.15

DIFFERENTIAL CORRECTIONS

TDE -.6909 TRA-1.1495 TC3 -.4226 BAU .4323
 RDE -.1028 RRA .3888 RC3 .3858 FAU .10025
 FDE-1.5768 FRA -.9468 FC3-1.5358 BSP 3670
 BDE .6985 BRA 1.2135 BC3 .5722 FSP -728

MID-COURSE EXECUTION ACCURACY

SGT 1207.7 SGR 657.0 SG3 233.5
 RRT -.7440 RRF -.8234 RTF .8396
 SGB 1374.8 R23 .1783 R13 -.8727
 SG1 1314.4 SG2 403.4 THA 155.51

ORBIT DETERMINATION ACCURACY

ST 589.6 SR 120.2 SS 505.6
 CRT .2433 CRS -.4994 CST -.9591
 LSA 770.2 MSA 155.6 SSA 20.2
 EL1 590.4 EL2 116.4 ALF 2.95

LAUNCH DATE MAR 12 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 265.203

RL 148.66 LAL .00 LOL 171.24 VL 29.161 GAL -13.28 AZL 92.53 HCA 123.46 SMA 141.93 ECC .23433 INC 2.5254 V1 29.972
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.755 GAP 1.67 AZP 88.61 TAL 245.36 TAP 8.82 RCA 108.67 APO 175.19 V2 34.793
 RC 93.644 GL -9.66 GP 34.46 ZAL 164.09 ZAP 102.68 ETS 10.43 ZAE 139.68 ETE 127.41 ZAC 93.07 ETC 161.96 CLP-105.44

PLANETOCENTRIC CONIC

C3 55.493 VML 7.449 DLA -7.30 RAL 7.47 RAD 6569.0 VEL 13.299 PTH 2.43 VHP 4.842 DPA 31.81 RAP 353.85 ECC 1.9133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 28 58 2240.09 -20.18 43.10 244.23 110.30 2 6 18 1640.1 -17.23 35.67
 90.00 11 37 17 5340.49 27.61 243.26 249.84 83.46 13 6 18 4740.5 26.42 234.80
 100.00 2 46 48 1988.96 -21.53 24.09 243.68 111.25 3 19 57 1389.0 -18.45 16.65
 100.00 13 2 8 5066.85 29.05 222.94 249.64 82.61 14 26 35 4466.9 27.72 214.38
 110.00 3 47 3 1800.31 -25.14 8.14 242.04 113.97 4 17 4 1200.3 -21.68 .69
 110.00 14 18 22 4828.26 32.91 204.14 248.96 80.19 15 38 50 4228.3 31.21 195.33

DIFFERENTIAL CORRECTIONS

TDE -.7661 TRA-1.2066 TC3 -.4855 BAU .4646
 RDE -.0754 RRA .3646 RC3 .3956 FAU .09719
 FDE-1.5834 FRA -.8712 FC3-1.5163 BSP 4018
 BDE .7698 BRA 1.2604 BC3 .6263 FSP -714

MID-COURSE EXECUTION ACCURACY

SGT 1321.3 SGR 656.2 SG3 229.3
 RRT -.7573 RRF -.8336 RTF .8509
 SGB 1475.3 R23 .1896 R13 -.8787
 SG1 1420.4 SG2 398.7 THA 157.52

ORBIT DETERMINATION ACCURACY

ST 653.0 SR 104.3 SS 517.3
 CRT .1468 CRS -.4054 CST -.9610
 LSA 825.8 MSA 150.3 SSA 20.0
 EL1 653.2 EL2 103.1 ALF 1.38

LAUNCH DATE MAR 12 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 271.345

RL 148.66 LAL .00 LOL 171.24 VL 29.098 GAL -13.10 AZL 92.80 HCA 126.62 SMA 141.37 ECC .23218 INC 2.8039 V1 29.972
 RP 108.93 LAP -2.23 LOP 297.89 VP 38.704 GAP 2.07 AZP 88.33 TAL 244.40 TAP 11.02 RCA 108.55 APO 174.19 V2 34.789
 RC 96.038 GL -10.82 GP 35.30 ZAL 162.96 ZAP 105.85 ETS 13.09 ZAE 137.51 ETE 130.21 ZAC 92.06 ETC 162.43 CLP-109.55

PLANETOCENTRIC CONIC

C3 54.531 VML 7.384 DLA -8.14 RAL 8.44 RAD 6569.0 VEL 13.262 PTH 2.42 VHP 4.921 DPA 32.17 RAP 352.58 ECC 1.8974
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 39 23 2208.73 -19.43 41.11 244.72 111.02 2 16 12 1608.7 -16.40 33.75
 90.00 11 34 33 5363.22 27.78 244.90 250.89 84.27 13 3 56 4763.2 26.69 236.40
 100.00 2 56 48 1959.01 -20.78 22.18 244.15 111.99 3 29 27 1359.0 -17.61 14.82
 100.00 12 59 49 5088.17 29.22 224.50 250.71 83.41 14 24 38 4488.2 28.00 215.91
 110.00 3 56 3 1773.44 -24.38 6.41 242.47 114.73 4 25 37 1173.4 -20.84 359.06
 110.00 14 17 3 4846.50 33.11 205.52 250.09 80.99 15 37 49 4246.5 31.52 196.66

DIFFERENTIAL CORRECTIONS

TDE -.8481 TRA-1.2600 TC3 -.5489 BAU .4970
 RDE -.0466 RRA .3380 RC3 .4043 FAU .09372
 FDE-1.5865 FRA -.7937 FC3-1.4880 BSP 4393
 BDE .8494 BRA 1.3045 BC3 .6817 FSP -703

MID-COURSE EXECUTION ACCURACY

SGT 1437.2 SGR 651.3 SG3 224.2
 RRT -.7677 RRF -.8439 RTF .8597
 SGB 1579.1 R23 .2022 R13 -.8835
 SG1 1529.1 SG2 394.1 THA 159.30

ORBIT DETERMINATION ACCURACY

ST 722.1 SR 89.2 SS 530.1
 CRT -.0026 CRS -.2567 CST -.9630
 LSA 888.2 MSA 144.9 SSA 19.7
 EL1 722.1 EL2 89.2 ALF 179.98

LAUNCH DATE MAR 12 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 277.454

RL 148.66 LAL .00 LOL 171.24 VL 29.031 GAL -12.92 AZL 93.11 HCA 129.77 SMA 140.79 ECC .23006 INC 3.1060 V1 29.972
 RP 108.94 LAP -2.39 LOP 301.06 VP 38.652 GAP 2.45 AZP 88.01 TAL 243.38 TAP 13.15 RCA 108.40 APO 173.18 V2 34.787
 RC 98.436 GL -12.08 GP 36.20 ZAL 161.71 ZAP 108.71 ETS 15.83 ZAE 135.36 ETE 132.56 ZAC 91.22 ETC 162.80 CLP-113.43

PLANETOCENTRIC CONIC

C3 53.637 VML 7.324 DLA -9.07 RAL 9.49 RAD 6568.9 VEL 13.229 PTH 2.42 VHP 5.019 DPA 32.67 RAP 351.44 ECC 1.8827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 53 2174.82 -18.58 38.98 245.33 111.76 2 27 7 1574.8 -15.47 31.69
 90.00 11 31 27 5388.96 27.94 246.77 252.09 85.19 13 1 16 4789.0 26.98 238.23
 100.00 3 7 47 1926.69 -19.94 20.15 244.74 112.74 3 39 54 1326.7 -16.69 12.86
 100.00 12 57 13 5112.32 29.40 226.27 251.93 84.33 14 22 26 4512.3 28.30 217.64
 110.00 4 5 57 1744.57 -23.55 4.59 243.00 115.52 4 35 2 1144.6 -19.92 357.33
 110.00 14 15 33 4867.20 33.32 207.10 251.38 81.90 15 36 40 4267.2 31.85 198.19

DIFFERENTIAL CORRECTIONS

TDE -.9373 TRA-1.3084 TC3 -.8115 BAU .5285
 RDE -.0172 RRA .3083 RC3 .4113 FAU .08971
 FDE-1.5833 FRA -.7117 FC3-1.4480 BSP 4767
 BDE .9374 BRA 1.3443 BC3 .7370 FSP -686

MID-COURSE EXECUTION ACCURACY

SGT 1553.9 SGR 650.3 SG3 217.7
 RRT -.7749 RRF -.8537 RTF .8664
 SGB 1684.5 R23 .2164 R13 -.8871
 SG1 1638.8 SG2 389.7 THA 160.91

ORBIT DETERMINATION ACCURACY

ST 796.9 SR 76.7 SS 542.8
 CRT -.2198 CRS -.0322 CST -.9649
 LSA 956.9 MSA 139.6 SSA 19.2
 EL1 797.1 EL2 74.8 ALF 178.78

LAUNCH DATE MAR 12 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 14 1969

MELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.962 GAL -12.72 AZL 93.44 MCA 132.92 SMA 140.20 ECC .22800 INC 3.4372 V1 29.972
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.598 GAP 2.81 AZP 87.66 TAL 242.30 TAP 15.22 RCA 108.23 APO 172.16 V2 34.785
 RC 100.837 GL -13.48 GP 37.21 ZAL 160.31 ZAP 111.27 ETS 18.65 ZAE 133.22 ETE 134.52 ZAC 90.51 ETC 163.07 CLP -117.10

PLANETOCENTRIC CONIC
 C3 52.831 VHL 7.269 DLA -10.09 RAL 10.64 RAD 6568.9 VEL 13.198 PTH 2.41 VHP 5.136 DPA 33.35 RAP 350.43 ECC 1.8695
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 3 39 2137.79 -17.63 36.68 246.07 112.52 2 39 17 1537.8 -14.43 29.47
 90.00 11 27 52 5418.49 28.09 248.92 253.46 86.26 12 58 10 4818.5 27.27 240.35
 100.00 3 20 0 1891.47 -19.00 17.96 245.46 113.52 3 51 32 1291.5 -15.66 10.76
 100.00 12 54 12 5140.05 29.57 228.31 253.33 85.39 14 19 52 4540.0 28.62 219.64
 110.00 4 16 55 1713.28 -22.62 2.64 243.66 116.34 4 45 28 1113.3 -18.89 355.48
 110.00 14 13 47 4891.00 33.54 208.93 252.86 82.96 15 35 18 4291.0 32.20 199.95

DIFFERENTIAL CORRECTIONS
 TOE-1.0343 TRA-1.3505 TC3 -.6725 BAU .5586 SGT 1670.2 SGR 643.7 SG3 209.9 ST 878.0 SR 69.2 SS 554.8
 ROE .0126 RRA .2748 RC3 .4161 FAU .08515 RRT -.7788 RRF -.8628 RTF .8711 CRT -.4945 CRS .2695 CST -.9668
 FDE-1.5728 FRA -.6243 FC3-1.3953 BSP 5124 SGB 1790.0 R23 .2324 R13 -.8895 LSA 1032.0 MSA 134.6 SSA 18.5
 BOE 1.0344 BRA 1.3781 BC3 .7908 FSP -661 SG1 1747.9 SG2 385.8 THA 162.41 EL1 878.7 EL2 60.1 ALF 177.76

LAUNCH DATE MAR 12 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 16 1969

MELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.891 GAL -12.53 AZL 93.80 MCA 136.07 SMA 139.59 ECC .22599 INC 3.8041 V1 29.972
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.544 GAP 3.15 AZP 87.26 TAL 241.16 TAP 17.24 RCA 108.04 APO 171.13 V2 34.784
 RC 103.240 GL -15.02 GP 38.35 ZAL 158.77 ZAP 113.51 ETS 21.58 ZAE 131.08 ETE 136.15 ZAC 89.92 ETC 163.26 CLP -120.57

PLANETOCENTRIC CONIC
 C3 52.143 VHL 7.221 DLA -11.23 RAL 11.91 RAD 6568.9 VEL 13.172 PTH 2.41 VHP 5.275 DPA 34.21 RAP 349.49 ECC 1.8581
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 18 1 2096.92 -16.55 34.17 246.99 113.31 2 52 58 1496.9 -13.26 27.04
 90.00 11 23 36 5452.87 28.22 251.42 255.04 87.51 12 54 29 4852.9 27.57 242.82
 100.00 3 33 43 1852.71 -17.93 15.58 246.36 114.33 4 4 35 1252.7 -14.49 8.47
 100.00 12 50 35 5172.31 29.72 230.70 254.95 86.64 14 16 47 4572.3 28.94 221.98
 110.00 4 29 10 1679.05 -21.57 .53 244.49 117.19 4 57 9 1079.1 -17.75 353.48
 110.00 14 11 37 4918.73 33.75 211.07 254.57 84.21 15 33 36 4318.7 32.58 202.03

DIFFERENTIAL CORRECTIONS
 TOE-1.1423 TRA-1.3864 TC3 -.7319 BAU .5881 SGT 1787.9 SGR 637.1 SG3 201.6 ST 967.3 SR 70.3 SS 568.9
 ROE .0446 RRA .2388 RC3 .4196 FAU .08040 RRT -.7808 RRF -.8722 RTF .8751 CRT -.7669 CRS .5985 CST -.9688
 FDE-1.5627 FRA -.5391 FC3-1.3349 BSP 5508 SGB 1898.0 R23 .2493 R13 -.8917 LSA 1116.7 MSA 130.2 SSA 17.7
 BOE 1.1432 BRA 1.4068 BC3 .8437 FSP -638 SG1 1859.1 SG2 382.8 THA 163.74 EL1 968.9 EL2 45.0 ALF 176.80

LAUNCH DATE MAR 12 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 18 1969

MELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.818 GAL -12.32 AZL 94.22 MCA 139.22 SMA 138.97 ECC .22403 INC 4.2154 V1 29.972
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.488 GAP 3.48 AZP 86.81 TAL 239.97 TAP 19.19 RCA 107.84 APO 170.11 V2 34.783
 RC 105.643 GL -16.74 GP 39.65 ZAL 157.04 ZAP 115.40 ETS 24.64 ZAE 128.92 ETE 137.49 ZAC 89.42 ETC 163.36 CLP -123.86

PLANETOCENTRIC CONIC
 C3 51.611 VHL 7.184 DLA -12.51 RAL 13.30 RAD 6568.9 VEL 13.152 PTH 2.40 VHP 5.438 DPA 35.29 RAP 348.59 ECC 1.8494
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 21 2051.27 -15.30 31.40 248.13 114.12 3 8 32 1451.3 -11.91 24.36
 90.00 11 18 24 5493.42 28.30 254.39 256.87 89.00 12 49 58 4893.4 27.86 245.75
 100.00 3 49 16 1809.58 -16.70 12.96 247.46 115.16 4 19 25 1209.6 -13.17 5.95
 100.00 12 46 11 5210.34 29.84 233.52 256.83 88.12 14 13 1 4610.3 29.26 224.77
 110.00 4 43 0 1641.27 -20.38 358.25 245.52 118.06 5 10 21 1041.3 -16.46 351.31
 110.00 14 8 56 4951.42 33.94 213.60 256.56 85.70 15 31 27 4351.4 32.98 204.49

DIFFERENTIAL CORRECTIONS
 TOE-1.2622 TRA-1.4135 TC3 -.7874 BAU .6158 SGT 1904.3 SGR 628.3 SG3 192.1 ST 1065.1 SR 80.6 SS 582.9
 ROE .0774 RRA .1984 RC3 .4203 FAU .07522 RRT -.7793 RRF -.8807 RTF .8780 CRT -.9267 CRS .8252 CST -.9708
 FDE-1.5479 FRA -.4504 FC3-1.2617 BSP 5863 SGB 2005.3 R23 .2677 R13 -.8930 LSA 1210.1 MSA 126.8 SSA 16.6
 BOE 1.2645 BRA 1.4273 BC3 .8925 FSP -606 SG1 1968.8 SG2 380.8 THA 165.01 EL1 1067.7 EL2 30.2 ALF 175.98

LAUNCH DATE MAR 12 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 20 1969

MELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.743 GAL -12.11 AZL 94.68 MCA 142.37 SMA 138.35 ECC .22213 INC 4.6827 V1 29.972
 RP 108.95 LAP -2.86 LOP 313.70 VP 38.433 GAP 3.79 AZP 86.29 TAL 238.73 TAP 21.10 RCA 107.62 APO 169.08 V2 34.783
 RC 108.045 GL -18.68 GP 41.16 ZAL 155.09 ZAP 116.94 ETS 27.87 ZAE 126.72 ETE 138.57 ZAC 88.97 ETC 163.39 CLP -126.99

PLANETOCENTRIC CONIC
 C3 51.293 VHL 7.162 DLA -13.96 RAL 14.85 RAD 6568.9 VEL 13.140 PTH 2.40 VHP 5.630 DPA 36.59 RAP 347.66 ECC 1.8441
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 53 11 1999.65 -13.84 28.31 249.54 114.95 3 26 30 1399.6 -10.36 21.36
 90.00 11 11 57 5541.97 28.31 257.94 259.01 90.78 12 44 19 4942.0 28.12 249.28
 100.00 4 7 8 1761.04 -15.27 10.06 248.84 116.01 4 36 29 1161.0 -11.65 3.15
 100.00 12 40 41 5255.81 29.89 236.80 259.02 89.90 14 8 17 4655.8 29.56 228.11
 110.00 4 58 48 1599.18 -19.01 355.75 246.81 118.96 5 25 27 999.2 -15.00 348.93
 110.00 14 5 30 4990.43 34.10 216.63 258.90 87.49 15 28 41 4390.4 33.38 207.47

DIFFERENTIAL CORRECTIONS
 TOE-1.3987 TRA-1.4319 TC3 -.8384 BAU .6427 SGT 2021.8 SGR 619.8 SG3 182.3 ST 1174.2 SR 99.5 SS 599.2
 ROE .1127 RRA .1546 RC3 .4188 FAU .06991 RRT -.7754 RRF -.8890 RTF .8809 CRT -.9842 CRS .9378 CST -.9730
 FDE-1.5342 FRA -.3653 FC3-1.1799 BSP 6244 SGB 2114.7 R23 .2861 R13 -.8947 LSA 1316.1 MSA 124.5 SSA 15.3
 BOE 1.4032 BRA 1.4402 BC3 .9372 FSP -578 SG1 2080.2 SG2 380.4 THA 166.16 EL1 1178.3 EL2 17.6 ALF 175.23

LAUNCH DATE MAR 12 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.667 GAL -11.89 AZL 95.22 HCA 145.51 SMA 137.72 ECC .22028 INC 5.2218 V1 29.972
 RP 108.94 LAP -2.95 LOP 316.87 VP 38.377 GAP 4.09 AZP 85.69 TAL 237.44 TAP 22.96 RCA 107.39 APO 168.06 V2 34.784
 RC 110.446 GL -20.89 GP 42.91 ZAL 152.88 ZAP 118.09 ETS 31.29 ZAE 124.45 ETE 139.46 ZAC 88.53 ETC 163.38 CLP-130.00

PLANETOCENTRIC CONIC
 C3 51.269 VHL 7.160 CLA -15.63 RAL 16.59 RAD 6568.9 VEL 13.139 PTH 2.40 VHP 5.858 DPA 38.15 RAP 346.63 ECC 1.8438
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 15 15 1940.35 -12.11 24.82 251.33 115.79 3 47 35 1340.4 -8.54 17.95
 90.00 11 3 45 5601.03 28.18 262.25 261.51 92.94 12 37 6 5001.0 28.29 253.59
 100.00 4 27 59 1705.65 -13.59 6.81 250.58 116.88 4 56 25 1105.7 -9.88 359.99
 100.00 12 33 42 5310.96 29.83 241.00 261.60 92.05 14 2 13 4711.0 29.79 232.19
 110.00 5 17 6 1551.81 -17.42 352.99 248.43 119.89 5 42 58 951.8 -13.32 346.29
 110.00 14 1 5 5037.57 34.18 220.31 261.67 89.67 15 25 2 4437.6 33.76 211.10

DIFFERENTIAL CORRECTIONS
 TDE-1.5566 TRA-1.4393 TC3 -.8826 BAU .6681
 RDE .1499 RRA .1059 RC3 .4136 FAU .06438
 FDE-1.5204 FRA -.2818 FC3-1.0870 BSP 6634
 BDE 1.5638 BRA 1.4432 BC3 .9747 FSP -548

MID-COURSE EXECUTION ACCURACY
 SGT 2139.9 SGR 610.7 SG3 171.9
 RRT -.7676 RRF -.8959 RTF .8838
 SGB 2225.3 R23 .3042 R13 -.8965
 SG1 2192.3 SG2 382.0 THA 167.25

ORBIT DETERMINATION ACCURACY
 ST 1296.8 SR 124.1 SS 617.3
 CRT -.9914 CRS .9820 CST -.9753
 LSA 1436.1 MSA 123.7 SSA 13.8
 EL1 1302.6 EL2 16.1 ALF 174.58

LAUNCH DATE MAR 12 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.590 GAL -11.67 AZL 95.85 HCA 148.66 SMA 137.10 ECC .21850 INC 5.8546 V1 29.972
 RP 108.94 LAP -3.04 LOP 320.03 VP 38.321 GAP 4.37 AZP 85.00 TAL 236.11 TAP 24.77 RCA 107.14 APO 167.05 V2 34.786
 RC 112.844 GL -23.41 GP 44.96 ZAL 150.37 ZAP 118.81 ETS 34.93 ZAE 122.04 ETE 140.19 ZAC 88.05 ETC 163.34 CLP-132.93

PLANETOCENTRIC CONIC
 C3 51.664 VHL 7.188 CLA -17.55 RAL 18.56 RAD 6568.9 VEL 13.154 PTH 2.40 VHP 6.133 DPA 39.97 RAP 345.40 ECC 1.8503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 41 41 1870.88 -10.02 20.78 253.64 116.62 4 12 52 1270.9 -6.37 14.01
 90.00 10 53 2 5674.31 27.81 267.58 264.46 95.58 12 27 36 5074.3 28.29 258.95
 100.00 4 52 49 1641.38 -11.58 3.10 252.82 117.75 5 20 10 1041.4 -7.78 356.37
 100.00 12 24 35 5379.05 29.56 246.04 264.64 94.69 13 54 14 4779.0 29.89 237.25
 110.00 5 38 37 1497.86 -15.57 349.91 250.52 120.82 6 3 35 897.9 -11.36 343.33
 110.00 13 55 16 5095.33 34.11 224.82 264.97 92.33 15 20 12 4495.3 34.06 215.58

DIFFERENTIAL CORRECTIONS
 TDE-1.7410 TRA-1.4314 TC3 -.9151 BAU .6905
 RDE .1873 RRA .0497 RC3 .4025 FAU .05848
 FDE-1.5032 FRA -.1976 FC3 -.9800 BSP 6985
 BDE 1.7510 BRA 1.4323 BC3 .9997 FSP -509

MID-COURSE EXECUTION ACCURACY
 SGT 2255.8 SGR 599.0 SG3 160.4
 RRT -.7534 RRF -.8999 RTF .8867
 SGB 2334.0 R23 .3218 R13 -.8983
 SG1 2301.9 SG2 386.0 THA 168.35

ORBIT DETERMINATION ACCURACY
 ST 1434.0 SR 150.8 SS 635.8
 CRT -.9818 CRS .9959 CST -.9776
 LSA 1570.9 MSA 124.3 SSA 12.0
 EL1 1441.6 EL2 28.5 ALF 174.10

LAUNCH DATE MAR 12 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.513 GAL -11.44 AZL 96.61 HCA 151.79 SMA 136.47 ECC .21678 INC 6.6129 V1 29.972
 RP 108.93 LAP -3.12 LOP 323.20 VP 38.265 GAP 4.64 AZP 84.17 TAL 234.74 TAP 26.53 RCA 106.89 APO 166.06 V2 34.789
 RC 115.239 GL -26.32 GP 47.37 ZAL 147.47 ZAP 119.06 ETS 38.84 ZAE 119.45 ETE 140.85 ZAC 87.46 ETC 163.33 CLP-135.83

PLANETOCENTRIC CONIC
 C3 52.673 VHL 7.258 CLA -19.77 RAL 20.82 RAD 6568.9 VEL 13.192 PTH 2.41 VHP 6.470 DPA 42.09 RAP 343.85 ECC 1.8669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 18 1787.16 -7.43 16.00 256.68 117.40 4 44 5 1187.2 -3.70 9.30
 90.00 10 38 28 5767.64 27.01 274.29 267.91 98.85 12 14 36 5167.6 27.95 265.75
 100.00 5 23 7 1565.08 -9.13 358.76 255.76 118.59 5 49 12 965.1 -5.24 352.13
 100.00 12 12 20 5464.95 28.91 252.34 268.23 97.95 13 43 25 4864.9 29.71 243.63
 110.00 6 4 26 1435.59 -13.36 346.43 253.25 121.76 6 28 21 835.6 -9.07 339.97
 110.00 13 47 30 5167.20 33.77 230.41 268.90 95.62 15 13 37 4567.2 34.18 221.19

DIFFERENTIAL CORRECTIONS
 TDE-1.9650 TRA-1.4068 TC3 -.9337 BAU .7112
 RDE .2255 RRA -.0142 RC3 .3848 FAU .05247
 FDE-1.4881 FRA -.1184 FC3 -.8624 BSP 7374
 BDE 1.9779 BRA 1.4069 BC3 1.0099 FSP -473

MID-COURSE EXECUTION ACCURACY
 SGT 2374.1 SGR 586.3 SG3 148.6
 RRT -.7321 RRF -.8997 RTF .8907
 SGB 2445.4 R23 .3364 R13 -.9013
 SG1 2413.7 SG2 392.9 THA 169.47

ORBIT DETERMINATION ACCURACY
 ST 1591.7 SR 178.8 SS 657.3
 CRT -.9681 CRS .9971 CST -.9803
 LSA 1726.7 MSA 126.4 SSA 10.3
 EL1 1601.1 EL2 44.6 ALF 173.79

LAUNCH DATE MAR 12 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC
 RL 148.66 LAL .00 LOL 171.24 VL 28.434 GAL -11.20 AZL 97.54 HCA 154.93 SMA 135.85 ECC .21513 INC 7.5439 V1 29.972
 RP 108.92 LAP -3.19 LOP 326.36 VP 38.210 GAP 4.89 AZP 83.16 TAL 233.32 TAP 28.25 RCA 106.62 APO 165.07 V2 34.792
 RC 117.630 GL -29.70 GP 50.21 ZAL 144.10 ZAP 118.79 ETS 43.07 ZAE 116.60 ETE 141.53 ZAC 86.69 ETC 163.43 CLP-138.80

PLANETOCENTRIC CONIC
 C3 54.618 VHL 7.390 CLA -22.36 RAL 23.47 RAD 6569.0 VEL 13.266 PTH 2.42 VHP 6.898 DPA 44.49 RAP 341.78 ECC 1.8989
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 56 24 1681.20 -4.07 10.02 260.82 118.05 5 24 26 1081.2 -.29 3.38
 90.00 10 17 26 603.49 25.41 305.10 271.87 102.94 10 27 29 3.5 26.94 296.77
 100.00 6 1 30 1471.13 -6.03 353.51 259.74 119.33 6 26 1 871.1 -2.08 346.95
 100.00 11 55 2 5576.84 27.59 260.40 272.41 101.99 13 27 59 4976.8 28.96 251.86
 110.00 6 36 11 1362.39 -10.71 342.43 256.90 122.66 6 58 53 762.4 -6.32 336.08
 110.00 13 36 50 5258.34 32.95 237.39 273.59 99.67 15 4 28 4658.3 33.93 228.29

DIFFERENTIAL CORRECTIONS
 TDE-2.2430 TRA-1.3584 TC3 -.9309 BAU .7280
 RDE .2599 RRA -.0895 RC3 .3571 FAU .04621
 FDE-1.4723 FRA -.0427 FC3 -.7325 BSP 7762
 BDE 2.2580 BRA 1.3614 BC3 .9971 FSP -434

MID-COURSE EXECUTION ACCURACY
 SGT 2492.8 SGR 569.9 SG3 136.0
 RRT -.6977 RRF -.8906 RTF .8962
 SGB 2557.1 R23 .3469 R13 -.9055
 SG1 2525.2 SG2 403.1 THA 170.70

ORBIT DETERMINATION ACCURACY
 ST 1772.7 SR 203.3 SS 680.6
 CRT -.9524 CRS .9915 CST -.9830
 LSA 1905.3 MSA 129.8 SSA 8.5
 EL1 1783.2 EL2 61.6 ALF 173.76

LAUNCH DATE MAR 12 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 331.260

RL 148.66 LAL .00 LOL 171.24 VL 28.356 GAL -10.95 AZL 98.72 MCA 158.06 SMA 135.23 ECC .21354 INC 8.7217 V1 29.972
 RP 108.91 LAP -3.25 LOP 329.53 VP 38.155 GAP 5.14 AZP 81.90 TAL 231.87 TAP 29.93 RCA 106.35 APO 164.11 V2 34.796
 RC 120.015 GL -33.64 GP 53.55 ZAL 140.16 ZAP 117.91 ETS 47.74 ZAE 113.39 ETE 142.40 ZAC 85.63 ETC 163.78 CLP-141.98

PLANETOCENTRIC CONIC

C3 58.060 VHL 7.620 DLA -25.36 RAL 26.62 RAD 6569.1 VEL 13.395 PTH 2.45 VHP 7.459 DPA 47.17 RAP 338.91 ECC 1.9555
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 56 12 1531.23 .76 1.65 266.81 118.31 6 21 44 931.2 4.54 355.01
 90.00 9 42 46 783.51 22.11 317.25 276.08 108.16 9 55 50 183.5 24.39 309.32
 100.00 6 53 23 1346.65 -1.84 346.64 265.36 119.84 7 15 49 746.7 2.14 340.12
 100.00 11 28 17 5731.36 24.94 271.11 277.06 107.03 13 3 48 5131.4 27.04 262.93
 110.00 7 16 37 1273.77 -7.41 337.68 261.92 123.47 7 37 50 673.8 -2.96 331.42
 110.00 13 21 33 5377.01 31.24 246.22 279.09 104.64 14 51 10 4777.0 32.93 237.41

DIFFERENTIAL CORRECTIONS

TDE-2.5978 TRA-1.2741 TC3 -.8971 BAU .7381
 RDE .2801 RRA -.1817 RC3 .3151 FAU .03963
 FDE-1.4536 FRA -.0310 FC3 -.5909 BSP 8108
 BDE 2.6129 BRA 1.2870 BC3 .9508 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 2609.4 SGR 545.8 SG3 122.4
 RRT -.6374 RRF -.8623 RTF .9034
 SGB 2665.9 R23 .3522 R13 -.9112
 SG1 2633.1 SG2 416.7 THA 172.21

ORBIT DETERMINATION ACCURACY

ST 1979.5 SR 215.9 SS 704.6
 CRT -.9302 CRS .9782 CST -.9858
 LSA 2108.0 MSA 134.3 SSA 6.8
 EL1 1989.7 EL2 78.9 ALF 174.20

LAUNCH DATE MAR 12 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 337.118

RL 148.66 LAL .00 LOL 171.24 VL 28.277 GAL -10.69 AZL 100.27 MCA 161.17 SMA 134.62 ECC .21200 INC10.2688 V1 29.972
 RP 103.89 LAP -3.30 LOP 332.70 VP 38.100 GAP 5.37 AZP 80.27 TAL 230.38 TAP 31.56 RCA 106.08 APO 163.15 V2 34.800
 RC 122.394 GL -38.23 GP 57.48 ZAL 135.53 ZAP 116.36 ETS 53.05 ZAE 109.70 ETE 143.77 ZAC 84.15 ETC 164.67 CLP-145.67

PLANETOCENTRIC CONIC

C3 64.058 VHL 8.004 DLA -28.81 RAL 30.47 RAD 6569.2 VEL 13.617 PTH 2.49 VHP 8.225 DPA 50.05 RAP 334.84 ECC 2.0542
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.46 7 18 38 1330.82 11.94 352.86 277.84 116.42 7 40 49 730.8 15.39 345.85
 95.54 8 51 4 1031.65 11.95 330.95 277.85 116.41 9 8 15 431.7 15.40 323.94
 100.00 8 18 44 1135.75 5.29 335.05 274.28 119.46 8 37 40 535.8 9.18 328.42
 100.00 10 33 39 701.95 18.76 309.91 281.15 113.71 10 45 21 102.0 21.81 302.44
 110.00 8 11 8 1159.65 -3.09 331.67 269.10 124.06 8 30 28 559.7 1.40 325.47
 110.00 12 57 44 5538.86 27.89 257.62 285.19 110.62 14 30 3 4938.9 30.43 249.35

DIFFERENTIAL CORRECTIONS

TDE-3.0726 TRA-1.1394 TC3 -.8243 BAU .7395
 RDE .2650 RRA -.2943 RC3 .2570 FAU .03296
 FDE-1.4381 FRA .0978 FC3 -.4454 BSP 8493
 BDE 3.0840 BRA 1.1768 BC3 .8634 FSP -345

MID-COURSE EXECUTION ACCURACY

SGT 2728.7 SGR 512.8 SG3 108.4
 RRT -.5261 RRF -.7891 RTF .9144
 SGB 2776.5 R23 .3475 R13 -.9201
 SG1 2742.4 SG2 433.9 THA 174.21

ORBIT DETERMINATION ACCURACY

ST 2217.6 SR 203.3 SS 732.0
 CRT -.8818 CRS .9421 CST -.9888
 LSA 2340.0 MSA 139.2 SSA 5.3
 EL1 2224.9 EL2 95.6 ALF 175.37

LAUNCH DATE MAR 12 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 342.944

RL 148.66 LAL .00 LOL 171.24 VL 28.198 GAL -10.43 AZL 102.40 MCA 164.28 SMA 134.01 ECC .21050 INC12.4028 V1 29.972
 RP 108.88 LAP -3.34 LOP 335.87 VP 38.047 GAP 5.59 AZP 78.05 TAL 228.85 TAP 33.13 RCA 105.80 APO 162.22 V2 34.805
 RC 124.766 GL -43.53 GP 62.07 ZAL 130.07 ZAP 114.05 ETS 59.49 ZAE 105.35 ETE 146.24 ZAC 82.05 ETC 166.68 CLP-150.49

PLANETOCENTRIC CONIC

C3 74.785 VHL 8.648 DLA -32.67 RAL 35.30 RAD 6569.5 VEL 14.005 PTH 2.55 VHP 9.329 DPA 52.92 RAP 328.93 ECC 2.2308
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.98 6 13 5 1636.94 12.13 15.86 285.69 120.57 6 40 22 1036.9 16.10 9.11
 107.02 10 35 11 798.90 12.15 313.67 285.70 120.56 10 48 30 198.9 16.12 306.92
 72.98 6 13 5 1636.94 12.13 15.86 285.69 120.57 6 40 22 1036.9 16.10 9.11
 107.02 10 35 11 798.90 12.15 313.67 285.70 120.56 10 48 30 198.9 16.12 306.92
 110.00 9 37 0 978.38 3.83 322.21 280.41 123.99 9 53 19 378.4 8.27 315.93
 110.00 12 10 26 5793.50 20.72 273.91 290.69 117.82 13 47 0 5193.5 24.27 266.56

DIFFERENTIAL CORRECTIONS

TDE-3.7303 TRA -.9168 TC3 -.7004 BAU .7230
 RDE .1484 RRA -.4344 RC3 .1799 FAU .02614
 FDE-1.4273 FRA .1609 FC3 -.3026 BSP 8867
 BDE 3.7332 BRA 1.0145 BC3 .7232 FSP -299

MID-COURSE EXECUTION ACCURACY

SGT 2845.4 SGR 472.7 SG3 94.0
 RRT -.2776 RRF -.5816 RTF .9300
 SGB 2884.4 R23 .3296 R13 -.9326
 SG1 2848.6 SG2 453.6 THA 177.29

ORBIT DETERMINATION ACCURACY

ST 2481.2 SR 142.4 SS 763.0
 CRT -.6260 CRS .7199 CST -.9919
 LSA 2595.8 MSA 143.9 SSA 4.0
 EL1 2482.8 EL2 111.0 ALF 177.94

LAUNCH DATE MAR 12 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 348.727

RL 148.66 LAL .00 LOL 171.24 VL 28.119 GAL -10.14 AZL 105.55 MCA 167.35 SMA 133.41 ECC .20901 INC15.5484 V1 29.972
 RP 108.86 LAP -3.37 LOP 339.04 VP 37.994 GAP 5.79 AZP 74.81 TAL 227.28 TAP 34.63 RCA 105.53 APO 161.30 V2 34.811
 RC 127.128 GL -49.47 GP 67.34 ZAL 123.70 ZAP 110.93 ETS 68.32 ZAE 100.07 ETE 151.21 ZAC 79.05 ETC 171.23 CLP-158.01

PLANETOCENTRIC CONIC

C3 95.296 VHL 9.762 DLA -36.72 RAL 41.54 RAD 6569.9 VEL 14.719 PTH 2.66 VHP 11.032 DPA 55.35 RAP 320.34 ECC 2.5683
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.58 5 54 27 1823.59 11.34 29.99 295.93 125.16 6 24 50 1223.6 15.86 23.62
 114.42 11 43 38 721.49 11.36 307.07 295.94 125.16 11 55 39 121.5 15.88 300.70
 65.58 5 54 27 1823.59 11.34 29.99 295.93 125.16 6 24 50 1223.6 15.86 23.62
 114.42 11 43 38 721.49 11.36 307.07 295.94 125.16 11 55 39 121.5 15.88 300.70
 65.58 5 54 27 1823.59 11.34 29.99 295.93 125.16 6 24 50 1223.6 15.86 23.62
 114.42 11 43 38 721.49 11.36 307.07 295.94 125.16 11 55 39 121.5 15.88 300.70

DIFFERENTIAL CORRECTIONS

TDE-4.6654 TRA -.5256 TC3 -.5183 BAU .6699
 RDE -.2709 RRA -.5957 RC3 .0887 FAU .01919
 FDE-1.4332 FRA .2261 FC3 -.1743 BSP 9187
 BDE 4.6732 BRA .7944 BC3 .5258 FSP -251

MID-COURSE EXECUTION ACCURACY

SGT 2944.5 SGR 495.5 SG3 79.7
 RRT .2934 RRF .0058 RTF .9514
 SGB 2985.9 R23 -.2937 R13 .9491
 SG1 2948.2 SG2 473.1 THA 2.90

ORBIT DETERMINATION ACCURACY

ST 2740.8 SR 206.0 SS 803.3
 CRT .7976 CRS -.7327 CST -.9949
 LSA 2859.7 MSA 147.5 SSA 3.0
 EL1 2745.8 EL2 124.0 ALF 3.44

LAUNCH DATE MAR 12 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 354.438

RL 148.66 LAL .00 LOL 171.24 VL 28.040 GAL -9.84 AZL 110.64 MCA 170.36 SMA 132.82 ECC .20746 INC20.6448 V1 29.972
 RP 108.84 LAP -3.39 LOP 342.21 VP 37.941 GAP 5.96 AZP 69.62 TAL 225.65 TAP 36.01 RCA 105.27 APO 160.38 V2 34.818
 RC 129.481 GL -55.57 GP 72.88 ZAL 116.44 ZAP 106.99 ETS 83.15 ZAE 93.41 ETE 162.46 ZAC 74.60 ETC 182.09 CLP -172.99

PLANETOCENTRIC CONIC

C3 139.463 VHL 11.809 DLA -40.29 RAL 49.72 RAD 6570.5 VEL 16.149 PTH 2.84 VHP 13.909 DPA 56.32 RAP 308.30 ECC 3.2952
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.05 6 0 0 1978.75 8.97 41.00 308.98 129.45 6 32 59 1378.8 13.99 35.06
 119.95 12 43 20 720.52 8.99 305.16 308.99 129.44 12 55 20 120.5 14.01 299.22
 60.05 6 0 0 1978.75 8.97 41.00 308.98 129.45 6 32 59 1378.8 13.99 35.06
 119.95 12 43 20 720.52 8.99 305.16 308.99 129.44 12 55 20 120.5 14.01 299.22
 60.05 6 0 0 1978.75 8.97 41.00 308.98 129.45 6 32 59 1378.8 13.99 35.06
 119.95 12 43 20 720.52 8.99 305.16 308.99 129.44 12 55 20 120.5 14.01 299.22

DIFFERENTIAL CORRECTIONS

TDE-5.8746 TRA .2209 TC3 -.2857 BAU .5330
 RDE-1.7018 RRA -.6619 RC3 .0095 FAU .01196
 FDE-1.4896 FRA .3093 FC3 -.0742 BSP 9462
 BDE 6.1161 BRA .6978 BC3 .2858 FSP -208

MID-COURSE EXECUTION ACCURACY

SGT 2932.3 SGR 927.1 SG3 66.5
 RRT .8383 RRF .7151 RTF .9779
 SGB 3075.4 R23 -.2347 R13 .9685
 SG1 3036.4 SG2 488.1 THA 15.25

ORBIT DETERMINATION ACCURACY

ST 2850.5 SR 835.3 SS 871.4
 CRT .9861 CRS -.9729 CST -.9978
 LSA 3092.0 MSA 148.9 SSA 2.3
 EL1 2967.4 EL2 133.2 ALF 16.15

LAUNCH DATE MAR 12 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC

DISTANCE 359.995

RL 148.66 LAL .00 LOL 171.24 VL 27.962 GAL -9.51 AZL 120.15 MCA 173.23 SMA 132.24 ECC .20562 INC30.1529 V1 29.972
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.890 GAP 6.09 AZP 60.02 TAL 223.93 TAP 37.16 RCA 105.05 APO 159.43 V2 34.825
 RC 131.823 GL -60.13 GP 75.99 ZAL 108.55 ZAP 102.34 ETS 113.11 ZAE 84.26 ETE 189.21 ZAC 67.49 ETC 208.62 CLP 151.99

PLANETOCENTRIC CONIC

C3 255.205 VHL 15.975 DLA -41.62 RAL 60.09 RAD 6571.5 VEL 19.404 PTH 3.10 VHP 19.439 DPA 53.76 RAP 293.28 ECC 5.2000
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.13 6 32 54 2098.93 4.89 47.82 324.55 131.38 7 7 53 1498.9 10.14 42.15
 121.87 13 33 9 793.61 4.91 307.94 324.56 131.38 13 46 23 193.6 10.16 302.26
 58.13 6 32 54 2098.93 4.89 47.82 324.55 131.38 7 7 53 1498.9 10.14 42.15
 121.87 13 33 9 793.61 4.91 307.94 324.56 131.38 13 46 23 193.6 10.16 302.26
 58.13 6 32 54 2098.93 4.89 47.82 324.55 131.38 7 7 53 1498.9 10.14 42.15
 121.87 13 33 9 793.61 4.91 307.94 324.56 131.38 13 46 23 193.6 10.16 302.26

DIFFERENTIAL CORRECTIONS

TDE-5.6945 TRA 1.5476 TC3 -.0608 BAU .2200
 RDE-6.2526 RRA .1650 RC3 .0215 FAU .00265
 FDE-1.6743 FRA .4733 FC3 -.0090 BSP 9626
 BDE 8.4571 BRA 1.5564 BC3 .0645 FSP -173

MID-COURSE EXECUTION ACCURACY

SGT 2181.8 SGR 2245.0 SG3 55.5
 RRT .9444 RRF .9445 RTF .9989
 SGB 3130.5 R23 -.1680 R13 .9847
 SG1 3086.7 SG2 521.9 THA 45.87

ORBIT DETERMINATION ACCURACY

ST 2054.5 SR 2242.6 SS 1015.0
 CRT .9952 CRS -.9948 CST -1.0000
 LSA 3202.4 MSA 158.6 SSA 1.5
 EL1 3037.8 EL2 148.6 ALF 47.52

LAUNCH DATE MAR 12 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC

DISTANCE 365.105

RL 148.66 LAL .00 LOL 171.24 VL 27.884 GAL -9.07 AZL 141.69 MCA 175.68 SMA 131.67 ECC .20274 INC51.6872 V1 29.972
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.840 GAP 6.09 AZP 38.39 TAL 221.97 TAP 37.65 RCA 104.97 APO 158.36 V2 34.833
 RC 134.153 GL -57.46 GP 67.60 ZAL 100.93 ZAP 97.51 ETS 153.58 ZAE 69.39 ETE 226.30 ZAC 54.07 ETC 246.35 CLP 110.04

PLANETOCENTRIC CONIC

C3 656.752 VHL 25.627 DLA -35.95 RAL 70.96 RAD 6572.6 VEL 27.893 PTH 3.41 VHP 31.842 DPA 43.15 RAP 278.67 ECC11.8085
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.87 7 58 45 2068.22 .67 41.90 340.02 125.94 8 33 13 1468.2 5.35 35.82
 113.13 13 34 2 1007.34 .69 322.29 340.03 125.94 13 50 50 407.3 5.37 316.21
 66.87 7 58 45 2068.22 .67 41.90 340.02 125.94 8 33 13 1468.2 5.35 35.82
 113.13 13 34 2 1007.34 .69 322.29 340.03 125.94 13 50 50 407.3 5.37 316.21
 66.87 7 58 45 2068.22 .67 41.90 340.02 125.94 8 33 13 1468.2 5.35 35.82
 113.13 13 34 2 1007.34 .69 322.29 340.03 125.94 13 50 50 407.3 5.37 316.21

DIFFERENTIAL CORRECTIONS

TDE .2948 TRA 2.0562 TC3 -.0211 BAU 1.3353
 RD-11.9961 RRA 3.8398 RC3 .1506 FAU-.01871
 FDE-2.1362 FRA .9459 FC3 .0247 BSP 9200
 BDE11.9997 BRA 4.3557 BC3 .1521 FSP -150

MID-COURSE EXECUTION ACCURACY

SGT 581.8 SGR 2985.6 SG3 48.3
 RRT .1969 RRF .9922 RTF .3175
 SGB 3041.7 R23 -.1170 R13 .9931
 SG1 2987.9 SG2 569.9 THA 87.72

ORBIT DETERMINATION ACCURACY

ST 182.7 SR 2700.9 SS 1331.5
 CRT -.2485 CRS -.9990 CST .2051
 LSA 3011.1 MSA 185.1 SSA .6
 EL1 2701.3 EL2 176.9 ALF 90.97

LAUNCH DATE MAR 12 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC

DISTANCE 375.554

RL 148.66 LAL .00 LOL 171.24 VL 27.806 GAL -9.75 AZL 8.28 MCA 183.41 SMA 131.11 ECC .21466 INC81.7202 V1 29.972
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.790 GAP 7.61 AZP 171.71 TAL 222.31 TAP 45.73 RCA 102.96 APO 159.25 V2 34.841
 RC 136.471 GL 45.63 GP -50.95 ZAL 97.83 ZAP 96.20 ETS 182.41 ZAE 56.98 ETE 113.93 ZAC 65.40 ETC 91.33 CLP 99.88

PLANETOCENTRIC CONIC

C31439.327 VHL 37.938 DLA 66.53 RAL 53.10 RAD 6573.2 VEL 39.505 PTH 3.56 VHP 47.762 DPA -75.12 RAP 263.89 ECC24.6877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.90 16 28 11 5083.57 1.26 245.23 323.66 23.48 17 52 54 4483.6 -6.08 242.45
 153.10 2 42 6 3354.54 1.27 99.52 323.64 23.48 3 38 0 2754.5 -6.07 96.75
 26.90 16 28 11 5083.57 1.26 245.23 323.66 23.48 17 52 54 4483.6 -6.08 242.45
 153.10 2 42 6 3354.54 1.27 99.52 323.64 23.48 3 38 0 2754.5 -6.07 96.75
 26.90 16 28 11 5083.57 1.26 245.23 323.66 23.48 17 52 54 4483.6 -6.08 242.45
 153.10 2 42 6 3354.54 1.27 99.52 323.64 23.48 3 38 0 2754.5 -6.07 96.75

DIFFERENTIAL CORRECTIONS

TDE-4.5462 TRA 1.1631 TC3 -.0882 BAU 3.7074
 RD-14.4379 RRA -.4728 RC3 -.1713 FAU-.05751
 FDE 3.0722 FRA .1422 FC3 .0346 BSP 7862
 BDE15.1367 BRA 1.2556 BC3 .1927 FSP -142

MID-COURSE EXECUTION ACCURACY

SGT 1055.3 SGR 2544.8 SG3 46.3
 RRT .8519 RRF -.9993 RTF -.8320
 SGB 2754.9 R23 -.1074 R13 -.9942
 SG1 2705.4 SG2 519.9 THA 69.76

ORBIT DETERMINATION ACCURACY

ST 699.5 SR 2181.5 SS 1916.1
 CRT .9769 CRS .9999 CST .9747
 LSA 2982.8 MSA 149.1 SSA .5
 EL1 2286.4 EL2 142.5 ALF 72.54

LAUNCH DATE MAR 12 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC

DISTANCE 379.757

RL 148.66 LAL .00 LOL 171.24 VL 27.729 GAL -9.11 AZL 47.50 HCA 184.97 SMA 130.55 ECC .20933 INC42.4989 V1 29.972
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.742 GAP 7.35 AZP 132.39 TAL 220.03 TAP 45.00 RCA 103.23 APO 157.88 V2 34.850
 RC 138.775 GL 59.44 GP -70.65 ZAL 103.06 ZAP 100.65 ETS 203.89 ZAE 79.66 ETE 131.78 ZAC 87.92 ETC 113.79 CLP 123.90

PLANETOCENTRIC CONIC

C3 461.380 VHL 21.480 DLA 72.83 RAL 7.55 RAD 6572.3 VEL 24.139 PTH 3.31 VHP 27.003 DPA -80.57 RAP 50.14 ECC 8.5931
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 19.59 13 10 43 5039.69 -2.85 247.93 276.68 17.19 14 34 43 4439.7 -10.49 245.95
 160.41 23 52 11 3270.29 -2.85 94.50 276.65 17.19 24 46 42 2670.3 -10.48 92.52
 19.59 13 10 43 5039.69 -2.85 247.93 276.68 17.19 14 34 43 4439.7 -10.49 245.95
 160.41 23 52 11 3270.29 -2.85 94.50 276.65 17.19 24 46 42 2670.3 -10.48 92.52
 19.59 13 10 43 5039.69 -2.85 247.93 276.68 17.19 14 34 43 4439.7 -10.49 245.95
 160.41 23 52 11 3270.29 -2.85 94.50 276.65 17.19 24 46 42 2670.3 -10.48 92.52

DIFFERENTIAL CORRECTIONS

TDE 2.3928 TRA .1703 TC3 -.0242 BAU .7842
 RDE -7.4935 RRA 2.8058 RC3 -.1248 FAU -.00693
 FDE 1.5804 FRA -.4617 FC3 .0130 BSP 10128
 BOE 7.8663 BRA 2.8110 BC3 .1271 FSP -165

MID-COURSE EXECUTION ACCURACY

SGT 664.8 SGR 3272.5 SG3 51.5
 RRT -.3815 RRF -.9901 RTF .5027
 SGB 3339.3 R23 -.1204 R13 -.9920
 SG1 3282.7 SG2 612.6 THA 94.59

ORBIT DETERMINATION ACCURACY

ST 639.9 SR 2138.7 SS 1025.9
 CRT -.9065 CRS .9972 CST -.9356
 LSA 2442.6 MSA 263.7 SSA 1.5
 EL1 2217.1 EL2 260.7 ALF 105.39

LAUNCH DATE MAR 12 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 385.036

RL 148.66 LAL .00 LOL 171.24 VL 27.653 GAL -8.69 AZL 64.03 HCA 187.61 SMA 130.01 ECC .20722 INC25.9650 V1 29.972
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.695 GAP 7.39 AZP 115.77 TAL 218.13 TAP 45.74 RCA 103.07 APO 156.96 V2 34.860
 RC 141.067 GL 59.27 GP -72.63 ZAL 109.48 ZAP 106.72 ETS 252.87 ZAE 92.43 ETE 179.15 ZAC 99.81 ETC 162.64 CLP 164.51

PLANETOCENTRIC CONIC

C3 193.867 VHL 13.924 DLA 67.02 RAL 354.51 RAD 6571.1 VEL 17.754 PTH 2.99 VHP 17.448 DPA -67.00 RAP 54.04 ECC 4.1906
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 26.32 12 33 9 4916.76 -9.30 241.73 260.54 23.30 13 55 5 4316.8 -16.63 238.85
 153.68 22 45 44 3183.96 -9.29 95.38 260.52 23.30 23 38 48 2584.0 -16.62 92.51
 26.32 12 33 9 4916.76 -9.30 241.73 260.54 23.30 13 55 5 4316.8 -16.63 238.85
 153.68 22 45 44 3183.96 -9.29 95.38 260.52 23.30 23 38 48 2584.0 -16.62 92.51
 26.32 12 33 9 4916.76 -9.30 241.73 260.54 23.30 13 55 5 4316.8 -16.63 238.85
 153.68 22 45 44 3183.96 -9.29 95.38 260.52 23.30 23 38 48 2584.0 -16.62 92.51

DIFFERENTIAL CORRECTIONS

TDE 3.2250 TRA -2.3765 TC3 -.1144 BAU .3008
 RDE -.9980 RRA 1.9787 RC3 .0196 FAU .01074
 FDE .8904 FRA -.5640 FC3 -.0480 BSP 11024
 BOE 3.3759 BRA 3.0924 BC3 .1161 FSP -200

MID-COURSE EXECUTION ACCURACY

SGT 2853.0 SGR 2126.8 SG3 61.4
 RRT -.9540 RRF -.9245 RTF .9950
 SGB 3558.5 R23 -.1887 R13 -.9804
 SG1 3520.8 SG2 516.6 THA 143.67

ORBIT DETERMINATION ACCURACY

ST 1525.2 SR 748.5 SS 614.3
 CRT -.8894 CRS .8592 CST -.9981
 LSA 1777.4 MSA 323.7 SSA 1.7
 EL1 1670.0 EL2 312.5 ALF 155.50

LAUNCH DATE MAR 12 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 390.608

RL 148.66 LAL .00 LOL 171.24 VL 27.577 GAL -8.33 AZL 71.78 HCA 190.55 SMA 129.48 ECC .20608 INC18.2170 V1 29.972
 RP 108.68 LAP -3.28 LOP 358.09 VP 37.648 GAP 7.51 AZP 107.93 TAL 216.34 TAP 46.89 RCA 102.80 APO 156.17 V2 34.870
 RC 143.344 GL 54.77 GP -66.92 ZAL 115.28 ZAP 112.98 ETS 279.07 ZAE 100.81 ETE 203.39 ZAC 107.39 ETC 187.90 CLP 174.80

PLANETOCENTRIC CONIC

C3 109.051 VHL 10.443 DLA 61.17 RAL 356.08 RAD 6570.1 VEL 15.179 PTH 2.73 VHP 13.075 DPA -57.13 RAP 51.76 ECC 2.7947
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 33.22 12 55 34 4785.54 -15.08 233.68 257.56 29.96 14 15 20 4185.5 -21.96 229.80
 146.78 22 35 51 3104.81 -15.07 95.22 257.55 29.96 23 27 36 2504.8 -21.95 91.34
 33.22 12 55 34 4785.54 -15.08 233.68 257.56 29.96 14 15 20 4185.5 -21.96 229.80
 146.78 22 35 51 3104.81 -15.07 95.22 257.55 29.96 23 27 36 2504.8 -21.95 91.34
 33.22 12 55 34 4785.54 -15.08 233.68 257.56 29.96 14 15 20 4185.5 -21.96 229.80
 146.78 22 35 51 3104.81 -15.07 95.22 257.55 29.96 23 27 36 2504.8 -21.95 91.34

DIFFERENTIAL CORRECTIONS

TDE 2.2605 TRA -2.8692 TC3 -.4321 BAU .6301
 RDE .3436 RRA .6667 RC3 .0093 FAU .02018
 FDE .7816 FRA -.5824 FC3 -.1602 BSP 11511
 BOE 2.2864 BRA 2.9457 BC3 .4322 FSP -243

MID-COURSE EXECUTION ACCURACY

SGT 3606.8 SGR 781.9 SG3 74.1
 RRT -.8014 RRF -.6389 RTF .9692
 SGB 3690.6 R23 -.2518 R13 -.9639
 SG1 3661.8 SG2 460.7 THA 169.98

ORBIT DETERMINATION ACCURACY

ST 1580.5 SR 295.5 SS 534.1
 CRT .0234 CRS -.2549 CST -.9727
 LSA 1664.2 MSA 317.8 SSA 2.4
 EL1 1580.5 EL2 295.4 ALF .26

LAUNCH DATE MAR 12 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 396.280

RL 148.66 LAL .00 LOL 171.24 VL 27.502 GAL -7.98 AZL 76.14 HCA 193.59 SMA 128.96 ECC .20535 INC13.8581 V1 29.972
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.603 GAP 7.66 AZP 103.48 TAL 214.57 TAP 48.17 RCA 102.48 APO 155.45 V2 34.880
 RC 145.608 GL 49.62 GP -60.27 ZAL 120.02 ZAP 118.90 ETS 288.67 ZAE 107.03 ETE 210.49 ZAC 113.15 ETC 195.97 CLP 167.07

PLANETOCENTRIC CONIC

C3 73.337 VHL 8.564 DLA 56.15 RAL .04 RAD 6569.4 VEL 13.953 PTH 2.55 VHP 10.771 DPA -49.00 RAP 49.90 ECC 2.2069
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 39.26 13 27 4 4667.59 -19.14 225.30 256.59 36.13 14 44 52 4067.6 -25.52 220.50
 140.74 22 35 56 3047.16 -19.12 94.46 256.57 36.13 23 26 43 2447.2 -25.51 89.67
 39.26 13 27 4 4667.59 -19.14 225.30 256.59 36.13 14 44 52 4067.6 -25.52 220.50
 140.74 22 35 56 3047.16 -19.12 94.46 256.57 36.13 23 26 43 2447.2 -25.51 89.67
 39.26 13 27 4 4667.59 -19.14 225.30 256.59 36.13 14 44 52 4067.6 -25.52 220.50
 140.74 22 35 56 3047.16 -19.12 94.46 256.57 36.13 23 26 43 2447.2 -25.51 89.67

DIFFERENTIAL CORRECTIONS

TDE 1.7588 TRA -2.7542 TC3 -.7972 BAU .7836
 RDE .5062 RRA .2267 RC3 -.0560 FAU .02705
 FDE .7565 FRA -.5711 FC3 -.3193 BSP 11786
 BOE 1.8302 BRA 2.7635 BC3 .7992 FSP -286

MID-COURSE EXECUTION ACCURACY

SGT 3767.0 SGR 445.0 SG3 87.5
 RRT -.2215 RRF .0822 RTF .9465
 SGB 3793.2 R23 -.3022 R13 -.9456
 SG1 3768.3 SG2 433.8 THA 178.48

ORBIT DETERMINATION ACCURACY

ST 1539.8 SR 348.4 SS 508.7
 CRT .5920 CRS -.8121 CST -.9510
 LSA 1629.3 MSA 310.7 SSA 3.3
 EL1 1554.1 EL2 278.2 ALF 7.88

LAUNCH DATE MAR 12 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 401.994

RL 148.66 LAL .00 LOL 171.24 VL 27.428 GAL -7.64 AZL 78.92 MCA 196.69 SMA 128.46 ECC .20489 INC11.0799 V1 29.972
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.559 GAP 7.83 AZP 100.62 TAL 212.81 TAP 49.50 RCA 102.14 APO 154.78 V2 34.891
 RC 147.857 GL 44.78 GP -54.11 ZAL 123.65 ZAP 124.29 ETS 293.25 ZAE 111.87 ETE 212.19 ZAC 117.89 ETC 198.65 CLP-163.99

PLANETOCENTRIC CONIC

C3 55.016 VHL 7.417 OLA 51.91 RAL 4.15 RAD 6569.0 VEL 13.281 PTH 2.43 VHP 9.433 DPA -42.02 RAP 48.77 ECC 1.9054
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 44.48 13 58 36 4565.63 -21.66 217.27 256.03 41.58 15 14 41 3965.6 -27.53 211.71
 135.52 22 37 13 3010.68 -21.65 93.74 256.01 41.58 23 27 24 2410.7 -27.52 88.18
 44.48 13 58 36 4565.63 -21.66 217.27 256.03 41.58 15 14 41 3965.6 -27.53 211.71
 135.52 22 37 13 3010.68 -21.65 93.74 256.01 41.58 23 27 24 2410.7 -27.52 88.18
 44.48 13 58 36 4565.63 -21.66 217.27 256.03 41.58 15 14 41 3965.6 -27.53 211.71
 135.52 22 37 13 3010.68 -21.65 93.74 256.01 41.58 23 27 24 2410.7 -27.52 88.18

DIFFERENTIAL CORRECTIONS

TDE 1.4707 TRA-2.6023 TC3-1.1798 BAU .8720
 RDE .4882 RRA .0747 RC3 -.1164 FAU .03246
 FDE .7308 FRA -.5410 FC3 -.5108 BSP 12150
 BDE 1.5497 BRA 2.6034 BC3 1.1855 FSP -330

MID-COURSE EXECUTION ACCURACY

SGT 3869.5 SGR 425.2 SG3 100.5
 RRT .2587 RRF .5670 RTF .9280
 SGB 3892.8 R23 .3357 R13 .9290
 SG1 3871.1 SG2 410.6 THA 1.65

ORBIT DETERMINATION ACCURACY

ST 1499.7 SR 378.2 SS 489.3
 CRT .7075 CRS -.9129 CST -.9342
 LSA 1593.5 MSA 304.2 SSA 4.4
 EL1 1524.2 EL2 263.0 ALF 10.43

LAUNCH DATE MAR 12 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 407.727

RL 148.66 LAL .00 LOL 171.24 VL 27.355 GAL -7.29 AZL 80.85 MCA 199.81 SMA 127.96 ECC .20462 INC 9.1527 V1 29.972
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.516 GAP 8.00 AZP 98.62 TAL 211.05 TAP 50.86 RCA 101.78 APO 154.14 V2 34.902
 RC 150.092 GL 40.46 GP -48.69 ZAL 126.29 ZAP 129.09 ETS 296.02 ZAE 115.67 ETE 211.89 ZAC 121.97 ETC 199.34 CLP-162.78

PLANETOCENTRIC CONIC

C3 44.239 VHL 6.651 OLA 48.37 RAL 8.03 RAD 6568.7 VEL 12.869 PTH 2.34 VHP 8.607 DPA -35.96 RAP 48.28 ECC 1.7281
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.99 14 28 32 4477.06 -23.11 209.86 255.76 46.24 15 43 9 3877.1 -28.50 203.71
 131.01 22 38 12 2990.51 -23.09 93.31 255.75 46.23 23 28 3 2390.5 -28.49 87.16
 48.99 14 28 32 4477.06 -23.11 209.86 255.76 46.24 15 43 9 3877.1 -28.50 203.71
 131.01 22 38 12 2990.51 -23.09 93.31 255.75 46.23 23 28 3 2390.5 -28.49 87.16
 48.99 14 28 32 4477.06 -23.11 209.86 255.76 46.24 15 43 9 3877.1 -28.50 203.71
 131.01 22 38 12 2990.51 -23.09 93.31 255.75 46.23 23 28 3 2390.5 -28.49 87.16

DIFFERENTIAL CORRECTIONS

TDE 1.2775 TRA-2.4585 TC3-1.5641 BAU .9300
 RDE .4433 RRA .0168 RC3 -.1617 FAU .03654
 FDE .6951 FRA -.4944 FC3 -.7151 BSP 12487
 BDE 1.3522 BRA 2.4585 BC3 1.5724 FSP -367

MID-COURSE EXECUTION ACCURACY

SGT 3962.9 SGR 438.8 SG3 111.8
 RRT .4591 RRF .7384 RTF .9131
 SGB 3987.1 R23 .3547 R13 .9149
 SG1 3968.1 SG2 389.3 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 1459.4 SR 382.0 SS 468.2
 CRT .7434 CRS -.9464 CST -.9194
 LSA 1551.0 MSA 298.6 SSA 5.6
 EL1 1487.6 EL2 250.7 ALF 11.34

LAUNCH DATE MAR 12 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 413.468

RL 148.66 LAL .00 LOL 171.24 VL 27.282 GAL -6.94 AZL 82.27 MCA 202.96 SMA 127.47 ECC .20454 INC 7.7328 V1 29.972
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.474 GAP 8.18 AZP 97.13 TAL 209.27 TAP 52.23 RCA 101.40 APO 153.54 V2 34.914
 RC 152.312 GL 36.67 GP -43.99 ZAL 128.05 ZAP 133.31 ETS 297.98 ZAE 118.68 ETE 210.75 ZAC 125.58 ETC 199.19 CLP-162.44

PLANETOCENTRIC CONIC

C3 37.237 VHL 6.102 OLA 45.43 RAL 11.66 RAD 6568.5 VEL 12.594 PTH 2.28 VHP 8.078 DPA -30.67 RAP 48.28 ECC 1.6128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.86 14 56 47 4398.90 -23.88 203.16 255.81 50.13 16 10 6 3798.9 -28.85 196.57
 127.14 22 38 55 2981.69 -23.87 93.22 255.80 50.12 23 28 36 2381.7 -28.83 86.64
 52.86 14 56 47 4398.90 -23.88 203.16 255.81 50.13 16 10 6 3798.9 -28.85 196.57
 127.14 22 38 55 2981.69 -23.87 93.22 255.80 50.12 23 28 36 2381.7 -28.83 86.64
 52.86 14 56 47 4398.90 -23.88 203.16 255.81 50.13 16 10 6 3798.9 -28.85 196.57
 127.14 22 38 55 2981.69 -23.87 93.22 255.80 50.12 23 28 36 2381.7 -28.83 86.64

DIFFERENTIAL CORRECTIONS

TDE 1.1342 TRA-2.3258 TC3-1.9465 BAU .9738
 RDE .4011 RRA -.0066 RC3 -.1926 FAU .03945
 FDE .6513 FRA -.4374 FC3 -.9172 BSP 12805
 BDE 1.2031 BRA 2.3259 BC3 1.9560 FSP -398

MID-COURSE EXECUTION ACCURACY

SGT 4057.1 SGR 444.1 SG3 121.3
 RRT .5479 RRF .8002 RTF .9012
 SGB 4081.4 R23 .3613 R13 .9032
 SG1 4064.5 SG2 370.8 THA 3.46

ORBIT DETERMINATION ACCURACY

ST 1418.0 SR 376.7 SS 444.6
 CRT .7565 CRS -.9626 CST -.9049
 LSA 1504.6 MSA 294.3 SSA 7.0
 EL1 1447.2 EL2 241.4 ALF 11.69

LAUNCH DATE MAR 12 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 419.212

RL 148.66 LAL .00 LOL 171.24 VL 27.211 GAL -6.58 AZL 83.36 MCA 206.11 SMA 127.00 ECC .20462 INC 6.6384 V1 29.972
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.433 GAP 8.35 AZP 95.97 TAL 207.49 TAP 53.60 RCA 101.01 APO 152.98 V2 34.926
 RC 154.516 GL 33.34 GP -39.94 ZAL 129.07 ZAP 137.01 ETS 299.48 ZAE 121.06 ETE 209.28 ZAC 128.86 ETC 198.67 CLP-162.56

PLANETOCENTRIC CONIC

C3 32.333 VHL 5.686 OLA 42.97 RAL 15.10 RAD 6568.3 VEL 12.398 PTH 2.24 VHP 7.733 DPA -26.03 RAP 48.67 ECC 1.5321
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.22 15 23 35 4328.76 -24.25 197.12 256.20 53.37 16 35 44 3728.8 -28.85 190.21
 123.78 22 39 35 2980.54 -24.24 93.44 256.19 53.36 23 29 16 2380.5 -28.84 86.53
 56.22 15 23 35 4328.76 -24.25 197.12 256.20 53.37 16 35 44 3728.8 -28.85 190.21
 123.78 22 39 35 2980.54 -24.24 93.44 256.19 53.36 23 29 16 2380.5 -28.84 86.53
 56.22 15 23 35 4328.76 -24.25 197.12 256.20 53.37 16 35 44 3728.8 -28.85 190.21
 123.78 22 39 35 2980.54 -24.24 93.44 256.19 53.36 23 29 16 2380.5 -28.84 86.53

DIFFERENTIAL CORRECTIONS

TDE 1.0225 TRA-2.2006 TC3-2.3278 BAU 1.0104
 RDE .3665 RRA -.0166 RC3 -.2135 FAU .04144
 FDE .6020 FRA -.3753 FC3-1.1096 BSP 13180
 BDE 1.0862 BRA 2.2007 BC3 2.3376 FSP -426

MID-COURSE EXECUTION ACCURACY

SGT 4153.8 SGR 442.5 SG3 128.9
 RRT .5944 RRF .8209 RTF .8923
 SGB 4177.3 R23 .3565 R13 .8943
 SG1 4162.2 SG2 355.2 THA 3.65

ORBIT DETERMINATION ACCURACY

ST 1376.4 SR 369.4 SS 419.0
 CRT .7617 CRS -.9725 CST -.8907
 LSA 1456.8 MSA 289.9 SSA 8.5
 EL1 1405.7 EL2 234.4 ALF 11.89

LAUNCH DATE MAR 12 1969

FLIGHT TIME 142.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 424.950

RL 148.66 LAL .00 LOL 171.24 VL 27.140 GAL -6.22 AZL 84.24 MCA 209.27 SMA 126.53 ECC .20488 INC 5.7648 V1 29.972
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.393 GAP 8.54 AZP 95.03 TAL 205.70 TAP 54.97 RCA 100.61 APO 152.45 V2 34.938
 RC 156.704 GL 30.39 GP -36.45 ZAL 129.46 ZAP 140.26 ETS 300.68 ZAE 122.96 ETE 207.69 ZAC 131.89 ETC 197.98 CLP-162.94

PLANETOCENTRIC CONIC

C3 28.698 VHL 5.357 CLA 40.92 RAL 18.43 RAD 6568.2 VEL 12.250 PTH 2.20 VHP 7.508 DPA -21.96 RAP 49.37 ECC 1.4723
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.13 15 49 14 4264.94 -24.39 191.65 256.89 56.07 17 0 19 3664.9 -28.67 184.51
 120.87 22 40 29 2984.52 -24.38 93.90 256.89 56.06 23 30 14 2384.5 -28.66 86.75
 59.13 15 49 14 4264.94 -24.39 191.65 256.89 56.07 17 0 19 3664.9 -28.67 184.51
 120.87 22 40 29 2984.52 -24.38 93.90 256.89 56.06 23 30 14 2384.5 -28.66 86.75
 59.13 15 49 14 4264.94 -24.39 191.65 256.89 56.07 17 0 19 3664.9 -28.67 184.51
 120.87 22 40 29 2984.52 -24.38 93.90 256.89 56.06 23 30 14 2384.5 -28.66 86.75

DIFFERENTIAL CORRECTIONS

TOE .8773 TRA-2.1347 TC3-2.7862 BAU 1.0732
 RDE .3265 RRA -.0352 RC3 -.2472 FAU .04460
 FDE .5108 FRA -.3534 FC3-1.3454 BSP 14943
 BDE .9361 BRA 2.1350 BC3 2.7971 FSP -536

MID-COURSE EXECUTION ACCURACY

SGT 4349.7 SGR 441.1 SG3 140.0
 RRT .6613 RRF .8358 RTF .8975
 SGB 4372.0 R23 .3183 R13 .8992
 SG1 4359.6 SG2 330.1 THA 3.86

ORBIT DETERMINATION ACCURACY

ST 1307.7 SR 349.6 SS 368.6
 CRT .7479 CRS -.9734 CST -.8782
 LSA 1375.1 MSA 277.8 SSA 10.7
 EL1 1334.4 EL2 227.4 ALF 11.65

LAUNCH DATE MAR 12 1969

FLIGHT TIME 144.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 430.701

RL 148.66 LAL .00 LOL 171.24 VL 27.070 GAL -5.84 AZL 84.95 MCA 212.44 SMA 126.08 ECC .20526 INC 5.0476 V1 29.972
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.355 GAP 8.72 AZP 94.26 TAL 203.89 TAP 56.33 RCA 100.20 APO 151.95 V2 34.951
 RC 158.875 GL 27.77 GP -33.46 ZAL 129.29 ZAP 143.11 ETS 301.66 ZAE 124.48 ETE 206.13 ZAC 134.75 ETC 197.27 CLP-163.46

PLANETOCENTRIC CONIC

C3 25.867 VHL 5.086 CLA 39.20 RAL 21.71 RAD 6568.0 VEL 12.134 PTH 2.17 VHP 7.364 DPA -18.36 RAP 50.33 ECC 1.4257
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.67 16 13 56 4206.37 -24.42 186.71 257.90 58.33 17 24 2 3606.4 -28.42 179.39
 118.33 22 41 58 2991.45 -24.41 94.50 257.89 58.32 23 31 49 2391.4 -28.41 87.18
 61.67 16 13 56 4206.37 -24.42 186.71 257.90 58.33 17 24 2 3606.4 -28.42 179.39
 118.33 22 41 58 2991.45 -24.41 94.50 257.89 58.32 23 31 49 2391.4 -28.41 87.18
 61.67 16 13 56 4206.37 -24.42 186.71 257.90 58.33 17 24 2 3606.4 -28.42 179.39
 118.33 22 41 58 2991.45 -24.41 94.50 257.89 58.32 23 31 49 2391.4 -28.41 87.18

DIFFERENTIAL CORRECTIONS

TOE .8906 TRA-1.9282 TC3-3.0485 BAU 1.0571
 RDE .3255 RRA -.0158 RC3 -.2265 FAU .04225
 FDE .5214 FRA -.2250 FC3-1.4142 BSP 13301
 BDE .9482 BRA 1.9283 BC3 3.0569 FSP -428

MID-COURSE EXECUTION ACCURACY

SGT 4298.8 SGR 433.7 SG3 137.2
 RRT .6152 RRF .8050 RTF .8741
 SGB 4320.7 R23 .3347 R13 .8758
 SG1 4307.2 SG2 341.3 THA 3.57

ORBIT DETERMINATION ACCURACY

ST 1312.4 SR 366.8 SS 379.9
 CRT .7776 CRS -.9879 CST -.8625
 LSA 1385.7 MSA 284.6 SSA 11.8
 EL1 1344.0 EL2 225.2 ALF 12.62

LAUNCH DATE MAR 12 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 436.438

RL 148.66 LAL .00 LOL 171.24 VL 27.001 GAL -5.46 AZL 85.55 MCA 215.61 SMA 125.63 ECC .20583 INC 4.4450 V1 29.972
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.317 GAP 8.91 AZP 93.62 TAL 202.08 TAP 57.70 RCA 99.77 APO 151.49 V2 34.964
 RC 161.027 GL 25.39 GP -30.86 ZAL 128.66 ZAP 145.63 ETS 302.43 ZAE 125.70 ETE 204.65 ZAC 137.48 ETC 196.55 CLP-164.08

PLANETOCENTRIC CONIC

C3 23.602 VHL 4.858 CLA 37.75 RAL 24.98 RAD 6568.0 VEL 12.041 PTH 2.15 VHP 7.279 DPA -15.16 RAP 51.49 ECC 1.3884
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.92 16 38 0 4152.10 -24.37 182.19 259.18 60.24 17 47 12 3552.1 -28.14 174.73
 116.08 22 44 1 3000.64 -24.36 95.23 259.17 60.23 23 34 2 2400.6 -28.13 87.78
 63.92 16 38 0 4152.10 -24.37 182.19 259.18 60.24 17 47 12 3552.1 -28.14 174.73
 116.08 22 44 1 3000.64 -24.36 95.23 259.17 60.23 23 34 2 2400.6 -28.13 87.78
 63.92 16 38 0 4152.10 -24.37 182.19 259.18 60.24 17 47 12 3552.1 -28.14 174.73
 116.08 22 44 1 3000.64 -24.36 95.23 259.17 60.23 23 34 2 2400.6 -28.13 87.78

DIFFERENTIAL CORRECTIONS

TOE .8303 TRA-1.8062 TC3-3.4334 BAU 1.0859
 RDE .3096 RRA -.0168 RC3 -.2339 FAU .04242
 FDE .4717 FRA -.1629 FC3-1.5559 BSP 13770
 BDE .8861 BRA 1.8063 BC3 3.4414 FSP -448

MID-COURSE EXECUTION ACCURACY

SGT 4398.3 SGR 430.8 SG3 140.8
 RRT .6244 RRF .7877 RTF .8712
 SGB 4419.4 R23 .3079 R13 .8727
 SG1 4406.6 SG2 335.9 THA 3.52

ORBIT DETERMINATION ACCURACY

ST 1273.6 SR 365.3 SS 354.0
 CRT .7831 CRS -.9921 CST -.8483
 LSA 1342.6 MSA 279.3 SSA 13.8
 EL1 1306.3 EL2 221.5 ALF 13.04

LAUNCH DATE MAR 12 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 442.171

RL 148.66 LAL .00 LOL 171.24 VL 26.933 GAL -5.07 AZL 86.07 MCA 218.79 SMA 125.20 ECC .20657 INC 3.9287 V1 29.972
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.280 GAP 9.10 AZP 93.06 TAL 200.26 TAP 59.06 RCA 99.33 APO 151.06 V2 34.977
 RC 163.161 GL 23.22 GP -28.61 ZAL 127.61 ZAP 147.88 ETS 303.02 ZAE 126.70 ETE 203.27 ZAC 140.12 ETC 195.86 CLP-164.75

PLANETOCENTRIC CONIC

C3 21.737 VHL 4.662 CLA 36.51 RAL 28.29 RAD 6567.9 VEL 11.963 PTH 2.13 VHP 7.236 DPA -12.29 RAP 52.82 ECC 1.3577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.93 17 1 38 4101.47 -24.29 178.03 260.73 61.87 18 9 59 3501.5 -27.85 170.46
 114.07 22 46 48 3011.26 -24.28 96.05 260.73 61.86 23 36 59 2411.3 -27.84 88.49
 65.93 17 1 38 4101.47 -24.29 178.03 260.73 61.87 18 9 59 3501.5 -27.85 170.46
 114.07 22 46 48 3011.26 -24.28 96.05 260.73 61.86 23 36 59 2411.3 -27.84 88.49
 65.93 17 1 38 4101.47 -24.29 178.03 260.73 61.87 18 9 59 3501.5 -27.85 170.46
 114.07 22 46 48 3011.26 -24.28 96.05 260.73 61.86 23 36 59 2411.3 -27.84 88.49

DIFFERENTIAL CORRECTIONS

TOE .7885 TRA-1.6727 TC3-3.8085 BAU 1.1089
 RDE .2992 RRA -.0151 RC3 -.2374 FAU .04194
 FDE .4303 FRA -.0968 FC3-1.6706 BSP 14053
 BDE .8433 BRA 1.6727 BC3 3.8158 FSP -454

MID-COURSE EXECUTION ACCURACY

SGT 4482.2 SGR 429.8 SG3 142.7
 RRT .6236 RRF .7644 RTF .8676
 SGB 4502.8 R23 .2818 R13 .8688
 SG1 4490.3 SG2 335.4 THA 3.44

ORBIT DETERMINATION ACCURACY

ST 1240.5 SR 367.9 SS 333.1
 CRT .7941 CRS -.9955 CST -.8345
 LSA 1307.6 MSA 274.1 SSA 15.9
 EL1 1275.5 EL2 217.5 ALF 13.65

LAUNCH DATE MAR 12 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 447.899

RL 148.66 LAL .00 LOL 171.24 VL 26.866 GAL -4.67 AZL 86.52 MCA 221.98 SMA 124.77 ECC .20749 INC 3.4788 V1 29.972
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.244 GAP 9.30 AZP 92.59 TAL 198.44 TAP 60.41 RCA 98.88 APO 150.66 V2 34.990
 RC 165.276 GL 21.21 GP -26.65 ZAL 126.19 ZAP 149.89 ETS 303.43 ZAE 127.53 ETE 202.00 ZAC 142.70 ETC 195.22 CLP-165.45

PLANETOCENTRIC CONIC

C3 20.176 VHL 4.492 DLA 35.44 RAL 31.67 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 7.226 DPA -9.72 RAP 54.29 ECC 1.3320
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.75 17 25 5 4053.88 -24.19 174.16 262.55 63.28 18 32 39 3453.9 -27.57 166.52
 112.25 22 50 19 3023.09 -24.18 96.93 262.54 63.26 23 40 42 2423.1 -27.56 89.29
 67.75 17 25 5 4053.88 -24.19 174.16 262.55 63.28 18 32 39 3453.9 -27.57 166.52
 112.25 22 50 19 3023.09 -24.18 96.93 262.54 63.26 23 40 42 2423.1 -27.56 89.29
 67.75 17 25 5 4053.88 -24.19 174.16 262.55 63.28 18 32 39 3453.9 -27.57 166.52
 112.25 22 50 19 3023.09 -24.18 96.93 262.54 63.26 23 40 42 2423.1 -27.56 89.29

DIFFERENTIAL CORRECTIONS

TDE .7544 TRA-1.5335 TC3-4.1843 BAU 1.1305
 RDE .2916 RRA -.0126 RC3 -.2404 FAU .04117
 FDE .3911 FRA -.0327 FC3-1.7668 BSP 14327
 BDE .8088 BRA 1.5336 BC3 4.1912 FSP -457

MID-COURSE EXECUTION ACCURACY

SGT 4562.9 SGR 430.6 SG3 143.8
 RRT .6193 RRF .7385 RTF .8649
 SGB 4583.1 R23 .2546 R13 .8660
 SG1 4570.7 SG2 337.5 THA 3.36

ORBIT DETERMINATION ACCURACY

ST 1207.3 SR 372.1 SS 313.0
 CRT .8080 CRS -.9969 CST -.8202
 LSA 1273.6 MSA 267.8 SSA 18.2
 EL1 1245.3 EL2 212.6 ALF 14.41

LAUNCH DATE MAR 12 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC

DISTANCE 453.619

RL 148.66 LAL .00 LOL 171.24 VL 26.800 GAL -4.26 AZL 86.92 MCA 225.17 SMA 124.36 ECC .20858 INC 3.0810 V1 29.972
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.209 GAP 9.50 AZP 92.17 TAL 196.60 TAP 61.77 RCA 98.42 APO 150.30 V2 35.003
 RC 167.370 GL 19.32 GP -24.93 ZAL 124.43 ZAP 151.70 ETS 303.68 ZAE 128.22 ETE 200.85 ZAC 145.23 ETC 194.61 CLP-166.7

PLANETOCENTRIC CONIC

C3 18.855 VHL 4.342 DLA 34.50 RAL 35.15 RAD 6567.8 VEL 11.842 PTH 2.10 VHP 7.240 DPA -7.39 RAP 55.89 ECC 1.3103
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.42 17 48 38 4008.67 -24.07 170.53 264.63 64.51 18 55 27 3408.7 -27.29 162.82
 110.58 22 54 32 3036.23 -24.05 97.90 264.63 64.49 23 45 8 2436.2 -27.28 90.20
 69.42 17 48 38 4008.67 -24.07 170.53 264.63 64.51 18 55 27 3408.7 -27.29 162.82
 110.58 22 54 32 3036.23 -24.05 97.90 264.63 64.49 23 45 8 2436.2 -27.28 90.20
 69.42 17 48 38 4008.67 -24.07 170.53 264.63 64.51 18 55 27 3408.7 -27.29 162.82
 110.58 22 54 32 3036.23 -24.05 97.90 264.63 64.49 23 45 8 2436.2 -27.28 90.20

DIFFERENTIAL CORRECTIONS

TDE .7253 TRA-1.3890 TC3-4.5608 BAU 1.1513
 RDE .2861 RRA -.0093 RC3 -.2438 FAU .04022
 FDE .3536 FRA -.0287 FC3-1.8465 BSP 14604
 BDE .7796 BRA 1.3890 BC3 4.5673 FSP -459

MID-COURSE EXECUTION ACCURACY

SGT 4642.1 SGR 433.0 SG3 144.3
 RRT .6132 RRF .7117 RTF .8633
 SGB 4662.3 R23 .2271 R13 .8643
 SG1 4649.7 SG2 341.5 THA 3.29

ORBIT DETERMINATION ACCURACY

ST 1172.6 SR 377.6 SS 293.5
 CRT .8243 CRS -.9955 CST -.8051
 LSA 1239.2 MSA 260.1 SSA 20.8
 EL1 1214.5 EL2 206.4 ALF 15.32

LAUNCH DATE MAR 12 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC

DISTANCE 459.332

RL 148.66 LAL .00 LOL 171.24 VL 26.735 GAL -3.84 AZL 87.28 MCA 228.36 SMA 123.95 ECC .20987 INC 2.7248 V1 29.972
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.174 GAP 9.70 AZP 91.81 TAL 194.76 TAP 63.12 RCA 97.94 APO 149.97 V2 35.016
 RC 169.445 GL 17.53 GP -23.42 ZAL 122.36 ZAP 153.34 ETS 303.76 ZAE 128.81 ETE 199.80 ZAC 147.73 ETC 194.05 CLP-166.90

PLANETOCENTRIC CONIC

C3 17.733 VHL 4.211 DLA 33.65 RAL 38.75 RAD 6567.7 VEL 11.795 PTH 2.09 VHP 7.275 DPA -5.27 RAP 57.60 ECC 1.2918
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.00 18 12 31 3965.26 -23.92 167.07 266.98 65.59 19 18 37 3365.3 -27.01 159.31
 109.00 22 59 22 3050.93 -23.91 98.98 266.98 65.58 23 50 13 2450.9 -27.00 91.22
 71.00 18 12 31 3965.26 -23.92 167.07 266.98 65.59 19 18 37 3365.3 -27.01 159.31
 109.00 22 59 22 3050.93 -23.91 98.98 266.98 65.58 23 50 13 2450.9 -27.00 91.22
 110.00 23 51 1 2892.96 -27.94 88.54 268.83 69.45 24 39 14 2293.0 -30.47 80.26
 110.00 22 20 3 3171.23 -20.02 106.26 264.90 61.70 23 12 54 2571.2 -23.65 98.99

DIFFERENTIAL CORRECTIONS

TDE .7028 TRA-1.2347 TC3-4.9264 BAU 1.1694
 RDE .2826 RRA -.0046 RC3 -.2464 FAU .03899
 FDE .3202 FRA -.0899 FC3-1.9032 BSP 14800
 BDE .7575 BRA 1.2347 BC3 4.9325 FSP -456

MID-COURSE EXECUTION ACCURACY

SGT 4711.9 SGR 437.0 SG3 144.1
 RRT .6040 RRF .6848 RTF .8617
 SGB 4732.2 R23 .2027 R13 .8625
 SG1 4719.4 SG2 347.8 THA 3.22

ORBIT DETERMINATION ACCURACY

ST 1138.6 SR 384.6 SS 276.9
 CRT .8446 CRS -.9900 CST -.7893
 LSA 1207.3 MSA 251.0 SSA 23.7
 EL1 1185.4 EL2 197.8 ALF 16.39

LAUNCH DATE MAR 12 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC

DISTANCE 465.035

RL 148.66 LAL .00 LOL 171.24 VL 26.671 GAL -3.40 AZL 87.60 MCA 231.55 SMA 123.56 ECC .21135 INC 2.4020 V1 29.972
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.141 GAP 9.91 AZP 91.49 TAL 192.91 TAP 64.47 RCA 97.44 APO 149.67 V2 35.030
 RC 171.498 GL 15.80 GP -22.09 ZAL 120.00 ZAP 154.84 ETS 303.67 ZAE 129.31 ETE 198.86 ZAC 150.20 ETC 193.53 CLP-167.64

PLANETOCENTRIC CONIC

C3 16.784 VHL 4.097 DLA 32.88 RAL 42.49 RAD 6567.7 VEL 11.754 PTH 2.07 VHP 7.327 DPA -3.34 RAP 59.40 ECC 1.2762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.55 18 37 10 3922.53 -23.75 163.69 269.60 66.57 19 42 32 3322.5 -26.71 155.89
 107.45 23 4 31 3068.22 -23.74 100.23 269.59 66.56 23 55 39 2468.2 -26.70 92.43
 72.55 18 37 10 3922.53 -23.75 163.69 269.60 66.57 19 42 32 3322.5 -26.71 155.89
 107.45 23 4 31 3068.22 -23.74 100.23 269.59 66.56 23 55 39 2468.2 -26.70 92.43
 110.00 0 35 40 2799.95 -29.99 82.08 272.19 72.77 1 22 20 2200.0 -32.05 73.48
 110.00 22 9 8 3238.80 -17.79 110.23 266.41 60.32 23 3 6 2638.8 -21.61 103.17

DIFFERENTIAL CORRECTIONS

TDE .6780 TRA-1.0764 TC3-5.2909 BAU 1.1885
 RDE .2797 RRA .0005 RC3 -.2508 FAU .03776
 FDE .2856 FRA .1464 FC3-1.9479 BSP 15066
 BDE .7334 BRA 1.0764 BC3 5.2968 FSP -455

MID-COURSE EXECUTION ACCURACY

SGT 4786.0 SGR 441.9 SG3 143.7
 RRT .5959 RRF .6591 RTF .8619
 SGB 4806.3 R23 .1777 R13 .8626
 SG1 4793.3 SG2 354.4 THA 3.17

ORBIT DETERMINATION ACCURACY

ST 1097.8 SR 391.3 SS 258.8
 CRT .8651 CRS -.9787 CST -.7700
 LSA 1169.2 MSA 239.9 SSA 27.2
 EL1 1150.3 EL2 187.3 ALF 17.62

LAUNCH DATE MAR 12 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC

DISTANCE 470.728

RL 148.66 LAL .00 LOL 171.24 VL 26.607 GAL -2.96 AZL 87.89 MCA 234.75 SMA 123.17 ECC .21304 INC 2.1063 V1 29.972
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.108 GAP 10.13 AZP 91.22 TAL 191.06 TAP 65.81 RCA 96.93 APO 149.41 V2 35.043
 RC 173.532 GL 14.14 GP -20.90 ZAL 117.36 ZAP 156.21 ETS 303.42 ZAE 129.75 ETE 198.01 ZAC 152.67 ETC 193.03 CLP-168.58

PLANETOCENTRIC CONIC

C3 15.988 VHL 3.999 DLA 32.14 RAL 46.37 RAD 6567.6 VEL 11.721 PTH 2.07 VHP 7.394 DPA -1.58 RAP 61.29 ECC 1.2631
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.12 19 2 57 3879.43 -23.54 160.29 272.48 67.46 20 7 36 3279.4 -26.39 152.46
 105.88 23 9 41 3089.14 -23.53 101.73 272.48 67.45 24 1 11 2489.1 -26.38 93.90
 74.12 19 2 57 3879.43 -23.54 160.29 272.48 67.46 20 7 36 3279.4 -26.39 152.46
 105.88 23 9 41 3089.14 -23.53 101.73 272.48 67.45 24 1 11 2489.1 -26.38 93.90
 110.00 1 8 53 2732.72 -31.25 77.25 275.40 75.37 1 54 26 2132.7 -32.94 68.43
 110.00 22 6 52 3283.84 -16.26 112.81 268.62 59.51 23 1 36 2683.8 -20.18 105.89

DIFFERENTIAL CORRECTIONS

TDE .6523 TRA -.9100 TC3-5.6393 BAU 1.2066
 RDE .2777 RRA .0067 RC3 -.2553 FAU .03644
 FDE .2517 FRA .2010 FC3-1.9733 BSP 15327
 BOE .7089 BRA .9101 BC3 5.6451 FSP -454

MID-COURSE EXECUTION ACCURACY

SGT 4856.3 SGR 447.4 SG3 142.9
 RRT .5870 RRF .6346 RTF .8627
 SGB 4876.9 R23 .1549 R13 .8633
 SG1 4863.4 SG2 361.6 THA 3.11

ORBIT DETERMINATION ACCURACY

ST 1051.4 SR 397.9 SS 241.4
 CRT .8871 CRS -.9587 CST -.7461
 LSA 1126.8 MSA 226.8 SSA 31.4
 EL1 1110.6 EL2 173.9 ALF 19.04

LAUNCH DATE MAR 12 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 476.410

RL 148.66 LAL .00 LOL 171.24 VL 26.545 GAL -2.50 AZL 88.17 MCA 237.95 SMA 122.79 ECC .21495 INC 1.8329 V1 29.972
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.076 GAP 10.36 AZP 90.97 TAL 189.21 TAP 67.16 RCA 96.40 APO 149.19 V2 35.056
 RC 175.544 GL 12.51 GP -19.85 ZAL 114.47 ZAP 157.47 ETS 303.00 ZAE 130.14 ETE 197.25 ZAC 155.13 ETC 192.55 CLP-169.12

PLANETOCENTRIC CONIC

C3 15.336 VHL 3.916 DLA 31.41 RAL 50.40 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 7.474 DPA .04 RAP 63.26 ECC 1.2524
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.79 19 30 25 3834.32 -23.28 156.75 275.64 68.28 20 34 20 2515.4 -26.01 148.90
 104.21 23 14 22 3115.42 -23.26 103.61 275.64 68.27 24 6 17 2515.4 -26.01 95.76
 75.79 19 30 25 3834.32 -23.28 156.75 275.64 68.28 20 34 20 2515.4 -26.01 148.90
 104.21 23 14 22 3115.42 -23.26 103.61 275.64 68.27 24 6 17 2515.4 -26.01 95.76
 110.00 1 39 22 2676.93 -32.13 73.14 278.70 77.66 2 23 59 2076.9 -33.50 64.17
 110.00 22 8 31 3320.81 -14.97 114.90 271.28 58.90 23 5 52 2720.8 -18.98 108.08

DIFFERENTIAL CORRECTIONS

TDE .6237 TRA -.7352 TC3-5.9631 BAU 1.2238
 RDE .2762 RRA .0140 RC3 -.2598 FAU .03506
 FDE .2182 FRA .2537 FC3-1.9789 BSP 15568
 BOE .6821 BRA .7353 BC3 5.9687 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 4922.8 SGR 453.1 SG3 141.8
 RRT .5778 RRF .6117 RTF .8642
 SGB 4943.7 R23 .1342 R13 .8647
 SG1 4929.8 SG2 369.3 THA 3.06

ORBIT DETERMINATION ACCURACY

ST 997.6 SR 404.2 SS 224.7
 CRT .9098 CRS -.9258 CST -.7158
 LSA 1078.4 MSA 211.6 SSA 36.8
 EL1 1064.9 EL2 157.2 ALF 20.71

LAUNCH DATE MAR 12 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 482.079

RL 148.66 LAL .00 LOL 171.24 VL 26.484 GAL -2.03 AZL 88.42 MCA 241.16 SMA 122.42 ECC .21709 INC 1.5779 V1 29.972
 RP 108.06 LAP -1.38 LOP 52.39 VP 37.044 GAP 10.60 AZP 90.76 TAL 187.35 TAP 68.51 RCA 95.85 APO 149.00 V2 35.069
 RC 177.535 GL 10.91 GP -18.91 ZAL 111.35 ZAP 158.63 ETS 302.41 ZAE 130.49 ETE 196.56 ZAC 157.58 ETC 192.08 CLP-169.85

PLANETOCENTRIC CONIC

C3 14.822 VHL 3.850 DLA 30.68 RAL 54.57 RAD 6567.6 VEL 11.671 PTH 2.05 VHP 7.567 DPA 1.52 RAP 65.30 ECC 1.2439
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.67 20 0 27 3784.43 -22.94 152.85 279.07 69.06 21 3 32 3184.4 -25.59 144.99
 102.33 23 17 37 3150.04 -22.93 106.07 279.06 69.04 24 10 7 2550.0 -25.57 98.21
 77.67 20 0 27 3784.43 -22.94 152.85 279.07 69.06 21 3 32 3184.4 -25.59 144.99
 102.33 23 17 37 3150.04 -22.93 106.07 279.06 69.04 24 10 7 2550.0 -25.57 98.21
 110.00 2 8 46 2627.65 -32.79 69.45 282.17 79.75 2 52 34 2027.7 -33.86 60.37
 110.00 22 12 25 3554.81 -13.76 116.80 274.30 58.40 23 8 20 2754.8 -17.84 110.07

DIFFERENTIAL CORRECTIONS

TDE .5925 TRA -.5491 TC3-6.2466 BAU 1.2389
 RDE .2755 RRA .0227 RC3 -.2633 FAU .03358
 FDE .1861 FRA .3061 FC3-1.9612 BSP 15739
 BOE .6534 BRA .5496 BC3 6.2522 FSP -445

MID-COURSE EXECUTION ACCURACY

SGT 4981.5 SGR 459.1 SG3 140.3
 RRT .5681 RRF .5908 RTF .8657
 SGB 5002.6 R23 .1168 R13 .8662
 SG1 4988.4 SG2 377.3 THA 3.01

ORBIT DETERMINATION ACCURACY

ST 937.8 SR 410.3 SS 210.9
 CRT .9332 CRS -.8746 CST -.6793
 LSA 1025.9 MSA 194.6 SSA 43.8
 EL1 1014.5 EL2 136.2 ALF 22.64

LAUNCH DATE MAR 12 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 487.733

RL 148.66 LAL .00 LOL 171.24 VL 26.423 GAL -1.54 AZL 88.66 MCA 244.36 SMA 122.06 ECC .21948 INC 1.3379 V1 29.972
 RP 108.02 LAP -1.21 LOP 55.60 VP 37.013 GAP 10.85 AZP 90.58 TAL 185.49 TAP 69.86 RCA 95.27 APO 148.86 V2 35.083
 RC 179.506 GL 9.34 GP -18.06 ZAL 108.00 ZAP 159.70 ETS 301.64 ZAE 130.80 ETE 195.94 ZAC 160.03 ETC 191.61 CLP-170.59

PLANETOCENTRIC CONIC

C3 14.445 VHL 3.801 DLA 29.91 RAL 58.88 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 7.671 DPA 2.88 RAP 67.39 ECC 1.2377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.94 20 34 30 3725.05 -22.53 148.25 282.75 69.79 21 36 35 3125.1 -25.08 140.38
 100.06 23 17 55 3197.95 -22.52 109.48 282.74 69.78 24 11 13 2597.9 -25.07 101.61
 79.94 20 34 30 3725.05 -22.53 148.25 282.75 69.79 21 36 35 3125.1 -25.08 140.38
 100.06 23 17 55 3197.95 -22.52 109.48 282.74 69.78 24 11 13 2597.9 -25.07 101.61
 110.00 2 37 49 2582.48 -33.28 66.02 285.83 81.72 3 20 52 1982.5 -34.07 56.86
 110.00 22 17 42 3388.51 -12.55 118.66 277.63 57.94 23 14 11 2788.5 -16.70 112.01

DIFFERENTIAL CORRECTIONS

TDE .5522 TRA -.3554 TC3-6.4876 BAU 1.2539
 RDE .2750 RRA .0324 RC3 -.2660 FAU .03209
 FDE .1527 FRA .3564 FC3-1.9235 BSP 15953
 BOE .6169 BRA .3568 BC3 6.4931 FSP -441

MID-COURSE EXECUTION ACCURACY

SGT 5039.2 SGR 464.6 SG3 138.6
 RRT .5584 RRF .5713 RTF .8680
 SGB 5060.6 R23 .1010 R13 .8684
 SG1 5045.9 SG2 384.9 THA 2.96

ORBIT DETERMINATION ACCURACY

ST 865.6 SR 414.9 SS 198.2
 CRT .9546 CRS -.7961 CST -.6318
 LSA 962.6 MSA 176.6 SSA 53.1
 EL1 953.3 EL2 112.2 ALF 24.96

LAUNCH DATE MAR 12 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 493.371

RL 148.66 LAL .00 LOL 171.24 VL 26.364 GAL -1.04 AZL 88.89 MCA 247.57 SMA 121.71 ECC .22213 INC 1.1103 V1 29.972
 RP 107.98 LAP -1.03 LOP 58.81 VP 36.983 GAP 11.10 AZP 90.42 TAL 183.63 TAP 71.21 RCA 94.68 APO 148.75 V2 35.095
 RC 181.455 GL 7.79 GP -17.30 ZAL 104.46 ZAP 160.70 ETS 300.70 ZAE 131.08 ETE 195.37 ZAC 162.48 ETC 191.11 CLP-171.32

PLANETOCENTRIC CONIC

C3 14.205 VHL 3.769 OLA 29.09 RAL 63.29 RAD 6567.6 VEL 11.644 PTH 2.04 VHP 7.786 DPA 4.13 RAP 69.55 ECC 1.2338
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.03 21 16 16 3643.91 -22.02 142.05 286.68 70.50 22 17 0 3043.9 -24.48 134.18
 96.97 23 11 23 3271.69 -22.01 114.74 286.67 70.48 24 5 54 2671.7 -24.47 106.87
 100.00 0 37 8 3009.18 -26.39 96.80 288.15 75.43 1 27 17 2409.2 -28.14 88.43
 100.00 22 37 8 3381.65 -17.77 121.05 284.86 65.56 23 33 30 2781.7 -20.92 113.67
 110.00 3 6 55 2540.09 -33.65 62.76 289.70 83.62 3 49 15 1940.1 -34.17 53.56
 110.00 22 23 50 3423.50 -11.28 120.57 281.22 57.52 23 20 54 2823.5 -15.49 114.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .5015 TRA -.1543 TC3-6.6765 BAU 1.2690 SGT 5097.2 SGR 469.5 SG3 136.9 ST 781.3 SR 417.9 SS 188.0
 RDE .2744 RRA .0428 RC3 -.2682 FAU .03066 RRT .5496 RRF .5532 RTF .8714 CRT .9715 CRS -.6804 CST -.5748
 FDE .1174 FRA .4039 FC3-1.8688 BSP 16186 SGB 5118.8 R23 .0855 R13 .8718 LSA 889.1 MSA 160.2 SSA 64.9
 BOE .5717 BRA .1601 BC3 6.6819 FSP -438 SG1 5103.8 SG2 391.8 THA 2.92 EL1 881.7 EL2 87.7 ALF 27.75

LAUNCH DATE MAR 12 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 498.991

RL 148.66 LAL .00 LOL 171.24 VL 26.305 GAL -.52 AZL 89.11 MCA 250.79 SMA 121.37 ECC .22506 INC .8928 V1 29.972
 RP 107.94 LAP -.84 LOP 62.03 VP 36.953 GAP 11.37 AZP 90.29 TAL 181.77 TAP 72.56 RCA 94.05 APO 148.68 V2 35.108
 RC 183.384 GL 6.27 GP -16.62 ZAL 100.76 ZAP 161.62 ETS 299.57 ZAE 131.35 ETE 194.86 ZAC 164.93 ETC 190.55 CLP-172.04

PLANETOCENTRIC CONIC

C3 14.108 VHL 3.756 OLA 28.21 RAL 67.79 RAD 6567.6 VEL 11.640 PTH 2.04 VHP 7.913 DPA 5.28 RAP 71.76 ECC 1.2322
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 22 53 12 3386.81 -22.95 123.52 291.37 72.94 23 49 39 2786.8 -25.07 115.49
 90.00 22 10 21 3525.78 -19.89 132.55 290.25 69.42 23 9 7 2925.8 -22.51 124.86
 100.00 1 21 3 2922.77 -27.73 90.73 292.72 78.36 2 9 46 2322.8 -29.05 82.17
 100.00 22 29 7 3465.05 -15.35 126.06 288.20 64.03 23 26 52 2865.0 -18.72 118.88
 110.00 3 36 11 2499.79 -33.91 59.64 293.75 85.44 4 17 51 1899.8 -34.17 50.41
 110.00 22 30 28 3460.79 -9.91 122.59 285.06 57.12 23 28 9 2860.8 -14.17 116.09

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4423 TRA .0576 TC3-6.7923 BAU 1.2821 SGT 5147.9 SGR 474.0 SG3 134.7 ST 692.4 SR 419.8 SS 184.0
 RDE .2746 RRA .0543 RC3 -.2676 FAU .02917 RRT .5400 RRF .5368 RTF .8751 CRT .9781 CRS -.5319 CST -.5311
 FDE .0834 FRA .4501 FC3-1.7900 BSP 16373 SGB 5169.7 R23 .0730 R13 .8754 LSA 812.5 MSA 154.5 SSA 75.0
 BOE .5206 BRA .0791 BC3 6.7976 FSP -433 SG1 5154.3 SG2 398.4 THA 2.86 EL1 806.3 EL2 75.1 ALF 30.97

LAUNCH DATE MAR 12 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 504.589

RL 148.66 LAL .00 LOL 171.24 VL 26.248 GAL .02 AZL 89.32 MCA 254.00 SMA 121.03 ECC .22828 INC .6836 V1 29.972
 RP 107.90 LAP -.66 LOP 65.25 VP 36.924 GAP 11.66 AZP 90.19 TAL 179.92 TAP 73.92 RCA 93.40 APO 148.66 V2 35.120
 RC 185.291 GL 4.77 GP -16.00 ZAL 96.92 ZAP 162.48 ETS 298.26 ZAE 131.59 ETE 194.40 ZAC 167.39 ETC 189.89 CLP-172.77

PLANETOCENTRIC CONIC

C3 14.161 VHL 3.763 OLA 27.26 RAL 72.34 RAD 6567.6 VEL 11.642 PTH 2.04 VHP 8.051 DPA 6.32 RAP 74.02 ECC 1.2331
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 1 42 3235.67 -25.59 113.23 296.65 77.44 0 55 38 2635.7 -27.06 104.88
 90.00 21 42 2 3678.56 -15.96 142.04 293.28 66.29 22 43 21 3078.6 -19.03 134.71
 100.00 2 0 11 2853.74 -28.58 85.77 297.29 80.84 2 47 45 2253.7 -29.55 77.10
 100.00 22 26 15 3535.73 -13.20 130.21 291.93 62.94 23 25 11 2935.7 -16.73 123.19
 110.00 4 5 36 2461.26 -34.08 56.65 297.96 87.21 4 46 37 1861.3 -34.09 47.40
 110.00 22 37 19 3500.97 -8.42 124.75 289.10 56.75 23 35 40 2901.0 -12.74 118.31

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3890 TRA .2873 TC3-6.7724 BAU 1.2831 SGT 5155.0 SGR 476.9 SG3 129.3 ST 629.3 SR 423.4 SS 190.5
 RDE .2771 RRA .0671 RC3 -.2527 FAU .02667 RRT .5190 RRF .5180 RTF .8721 CRT .9604 CRS -.4094 CST -.5648
 FDE .0598 FRA .4975 FC3-1.6306 BSP 16175 SGB 5177.0 R23 .0732 R13 .8723 LSA 758.9 MSA 174.8 SSA 71.8
 BOE .4776 BRA .2951 BC3 6.7771 FSP -399 SG1 5161.0 SG2 407.1 THA 2.77 EL1 752.0 EL2 98.7 ALF 33.52

LAUNCH DATE MAR 12 1969

FLIGHT TIME 172.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 510.165

RL 148.66 LAL .00 LOL 171.24 VL 26.191 GAL .58 AZL 89.52 MCA 257.22 SMA 120.71 ECC .23183 INC .4808 V1 29.972
 RP 107.87 LAP -.47 LOP 68.46 VP 36.895 GAP 11.96 AZP 90.11 TAL 178.07 TAP 75.29 RCA 92.72 APO 148.69 V2 35.132
 RC 187.175 GL 3.32 GP -15.44 ZAL 92.99 ZAP 163.27 ETS 296.74 ZAE 131.82 ETE 193.97 ZAC 169.84 ETC 189.03 CLP-173.49

PLANETOCENTRIC CONIC

C3 14.375 VHL 3.791 OLA 26.23 RAL 76.90 RAD 6567.6 VEL 11.652 PTH 2.05 VHP 8.201 DPA 7.28 RAP 76.31 ECC 1.2366
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 47 11 3148.04 -26.74 107.08 301.52 80.31 1 39 39 2548.0 -27.80 98.57
 90.00 21 32 58 3772.79 -13.30 147.68 297.04 64.77 22 35 51 3172.8 -16.59 140.55
 100.00 2 36 59 2794.04 -29.15 81.43 301.92 83.06 3 23 33 2194.0 -29.80 72.68
 100.00 22 25 51 3602.03 -11.12 134.02 295.92 62.07 23 25 53 3002.0 -14.77 127.14
 110.00 4 35 4 2424.57 -34.17 53.78 302.34 88.90 5 15 29 1824.6 -33.94 44.55
 110.00 22 44 15 3544.26 -6.79 127.05 293.32 56.42 23 43 19 2944.3 -11.16 120.68

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .2870 TRA .5167 TC3-6.7835 BAU 1.3046 SGT 5234.9 SGR 479.8 SG3 130.2 ST 529.3 SR 418.4 SS 197.1
 RDE .2755 RRA .0809 RC3 -.2582 FAU .02616 RRT .5201 RRF .5070 RTF .8815 CRT .8678 CRS -.1630 CST -.5789
 FDE .0119 FRA .5446 FC3-1.5755 BSP 16701 SGB 5256.8 R23 .0536 R13 .8817 LSA 659.4 MSA 235.2 SSA 62.3
 BOE .3978 BRA .5230 BC3 6.7884 FSP -420 SG1 5240.9 SG2 409.4 THA 2.75 EL1 653.3 EL2 168.4 ALF 37.35

LAUNCH DATE MAR 12 1969

FLIGHT TIME 174.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 515.713

RL 148.66 LAL .00 LOL 171.24 VL 26.135 GAL 1.16 AZL 89.72 MCA 260.44 SMA 120.39 ECC .23573 INC .2829 V1 29.972
 RP 107.83 LAP -.28 LOP 71.68 VP 36.867 GAP 12.27 AZP 90.05 TAL 176.22 TAP 76.66 RCA 92.01 APO 148.76 V2 35.144
 RC 189.037 GL 1.93 GP -14.93 ZAL 89.01 ZAP 164.01 ETS 295.01 ZAE 132.03 ETE 193.59 ZAC 172.30 ETC 187.76 CLP-174.20

PLANETOCENTRIC CONIC

C3 14.760 VHL 3.842 DLA 25.14 RAL 81.43 RAD 6567.6 VEL 11.668 PTH 2.05 VHP 8.365 DPA 8.15 RAP 78.65 ECC 1.2429
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 27 31 3078.27 -27.44 102.09 306.36 82.72 2 18 49 2478.3 -28.16 93.50
 90.00 21 28 45 3854.33 -10.88 152.45 301.09 63.70 22 32 59 3254.3 -14.33 145.47
 100.00 3 12 11 2740.85 -29.52 77.52 306.61 85.08 3 57 52 2140.8 -29.89 68.73
 100.00 22 26 46 3666.99 -9.02 137.71 300.11 61.38 23 27 53 3067.0 -12.78 130.93
 110.00 5 4 22 2389.86 -34.18 51.07 306.82 90.51 5 44 11 1789.9 -33.73 41.86
 110.00 22 51 5 3590.73 -5.04 129.50 297.67 56.15 23 50 56 2990.7 -9.45 123.19

DIFFERENTIAL CORRECTIONS

TDE .1901 TRA .7617 TC3-6.6581 BAU 1.3148
 RDE .2765 RRA .0953 RC3 -.2500 FAU .02474
 FDE -.0249 FRA .5900 FC3-1.4511 BSP 16850
 BDE .3355 BRA .7677 BC3 6.6628 FSP -414

MID-COURSE EXECUTION ACCURACY

SGT 5275.3 SGR 481.2 SG3 127.8
 RRT .5108 RRF .4937 RTF .8857
 SGB 5297.2 R23 .0447 R13 .8859
 SG1 5281.0 SG2 413.2 THA 2.68

ORBIT DETERMINATION ACCURACY

ST 495.7 SR 415.0 SS 213.8
 CRT 6588 CRS .0113 CST -.7117
 LSA 600.7 MSA 316.6 SSA 51.0
 EL1 591.1 EL2 261.8 ALF 37.42

LAUNCH DATE MAR 12 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 521.231

RL 148.66 LAL .00 LOL 171.24 VL 26.080 GAL 1.77 AZL 89.91 MCA 263.66 SMA 120.07 ECC .24000 INC .0879 V1 29.972
 RP 107.79 LAP -.09 LOP 74.91 VP 36.838 GAP 12.61 AZP 90.01 TAL 174.38 TAP 78.04 RCA 91.26 APO 148.89 V2 35.155
 RC 190.875 GL .59 GP -14.47 ZAL 85.01 ZAP 164.69 ETS 293.07 ZAE 132.22 ETE 193.23 ZAC 174.75 ETC 185.47 CLP-174.92

PLANETOCENTRIC CONIC

C3 15.335 VHL 3.916 DLA 23.98 RAL 85.88 RAD 6567.6 VEL 11.693 PTH 2.06 VHP 8.541 DPA 8.93 RAP 81.02 ECC 1.2524
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 4 53 3019.00 -27.88 97.81 311.20 84.82 2 55 12 2419.0 -28.30 89.17
 90.00 21 26 54 3930.70 -8.54 156.84 305.34 62.90 22 32 25 3330.7 -12.11 149.98
 100.00 3 45 58 2693.11 -29.75 73.99 311.35 86.93 4 30 51 2093.1 -29.86 65.18
 100.00 22 28 31 3731.82 -6.89 141.34 304.45 60.84 23 30 43 3131.8 -10.73 134.65
 110.00 5 33 14 2357.51 -34.13 48.55 311.40 92.00 6 12 32 1757.5 -33.48 39.37
 110.00 22 57 44 3640.19 -3.16 132.09 302.14 55.95 23 58 24 3040.2 -7.61 125.83

DIFFERENTIAL CORRECTIONS

TDE .0827 TRA 1.0213 TC3-6.4438 BAU 1.3220
 RDE .2782 RRA .1106 RC3 -.2380 FAU .02327
 FDE -.0608 FRA .6363 FC3-1.3137 BSP 16923
 BDE .2903 BRA 1.0273 BC3 6.4482 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 5306.5 SGR 481.5 SG3 125.3
 RRT .5009 RRF .4812 RTF .8895
 SGB 5328.3 R23 .0380 R13 .8897
 SG1 5312.0 SG2 416.3 THA 2.62

ORBIT DETERMINATION ACCURACY

ST 527.5 SR 410.6 SS 236.0
 CRT .3518 CRS .1506 CST -.8528
 LSA 587.9 MSA 393.9 SSA 41.9
 EL1 563.3 EL2 359.9 ALF 27.12

LAUNCH DATE MAR 12 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 526.712

RL 148.66 LAL .00 LOL 171.24 VL 26.026 GAL 2.40 AZL 90.10 MCA 266.89 SMA 119.77 ECC .24467 INC .1018 V1 29.972
 RP 107.76 LAP .10 LOP 78.13 VP 36.811 GAP 12.96 AZP 89.99 TAL 172.55 TAP 79.43 RCA 90.46 APO 149.07 V2 35.166
 RC 192.690 GL -.67 GP -14.04 ZAL 81.04 ZAP 165.31 ETS 290.91 ZAE 132.40 ETE 192.91 ZAC 177.18 ETC 179.48 CLP-175.64

PLANETOCENTRIC CONIC

C3 16.118 VHL 4.015 DLA 22.78 RAL 90.22 RAD 6567.6 VEL 11.726 PTH 2.07 VHP 8.733 DPA 9.63 RAP 83.42 ECC 1.2653
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 39 59 2967.63 -28.14 94.07 316.04 86.68 3 29 27 2367.6 -28.30 85.41
 90.00 21 26 27 4004.60 -6.23 161.04 309.73 62.32 22 33 11 3404.6 -9.89 154.27
 100.00 4 18 22 2650.42 -29.86 70.82 316.13 88.59 5 2 32 2050.4 -29.74 62.02
 100.00 22 30 45 3797.04 -4.71 144.96 308.90 60.45 23 34 2 3197.0 -8.61 138.34
 110.00 6 1 27 2327.91 -34.04 46.24 316.04 93.36 6 40 15 1727.9 -33.20 37.10
 110.00 23 4 9 3692.32 -1.17 134.81 306.69 55.83 24 5 41 3092.3 -5.64 128.59

DIFFERENTIAL CORRECTIONS

TDE -.0409 TRA 1.2893 TC3-6.1672 BAU 1.3298
 RDE .2803 RRA .1262 RC3 -.2244 FAU .02191
 FDE -.0983 FRA .6807 FC3-1.1770 BSP 17095
 BDE .2833 BRA 1.2954 BC3 6.1713 FSP -401

MID-COURSE EXECUTION ACCURACY

SGT 5339.2 SGR 480.3 SG3 122.9
 RRT .4908 RRF .4684 RTF .8942
 SGB 5360.7 R23 .0307 R13 .8943
 SG1 5344.4 SG2 418.0 THA 2.54

ORBIT DETERMINATION ACCURACY

ST 619.6 SR 404.4 SS 261.8
 CRT .0499 CRS .2669 CST -.9379
 LSA 667.3 MSA 411.6 SSA 35.1
 EL1 620.2 EL2 403.5 ALF 3.24

LAUNCH DATE MAR 12 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 532.154

RL 148.66 LAL .00 LOL 171.24 VL 25.972 GAL 3.06 AZL 90.29 MCA 270.11 SMA 119.47 ECC .24979 INC .2934 V1 29.972
 RP 107.73 LAP .29 LOP 81.36 VP 36.783 GAP 13.34 AZP 90.00 TAL 170.73 TAP 80.84 RCA 89.63 APO 149.31 V2 35.177
 RC 194.480 GL -1.84 GP -13.66 ZAL 77.14 ZAP 165.87 ETS 288.52 ZAE 132.57 ETE 192.61 ZAC 179.32 ETC 127.40 CLP-176.36

PLANETOCENTRIC CONIC

C3 17.132 VHL 4.139 DLA 21.54 RAL 94.42 RAD 6567.7 VEL 11.769 PTH 2.08 VHP 8.940 DPA 10.25 RAP 85.85 ECC 1.2820
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 3 2923.05 -28.27 90.82 320.89 88.30 4 1 46 2323.1 -28.21 82.16
 90.00 21 26 51 4077.17 -3.92 165.12 314.22 61.93 22 34 49 3477.2 -7.64 158.42
 100.00 4 49 18 2612.72 -29.89 68.02 320.92 90.07 5 32 50 2012.7 -29.56 59.23
 100.00 22 33 18 3862.73 -2.50 148.57 313.43 60.20 23 37 41 3262.7 -6.45 142.01
 110.00 6 28 47 2301.47 -33.91 44.19 320.73 94.57 7 7 8 1701.5 -32.91 35.09
 110.00 23 10 18 3746.74 .92 137.65 311.30 55.83 24 12 45 3146.7 -3.57 131.44

DIFFERENTIAL CORRECTIONS

TDE -.1759 TRA 1.5715 TC3-5.8273 BAU 1.3355
 RDE .2833 RRA .1422 RC3 -.2083 FAU .02055
 FDE -.1353 FRA .7261 FC3-1.0385 BSP 17226
 BDE .3334 BRA 1.5779 BC3 5.8310 FSP -395

MID-COURSE EXECUTION ACCURACY

SGT 5366.5 SGR 477.8 SG3 120.4
 RRT .4802 RRF .4559 RTF .8986
 SGB 5387.7 R23 .0248 R13 .8987
 SG1 5371.4 SG2 418.7 THA 2.46

ORBIT DETERMINATION ACCURACY

ST 756.6 SR 397.3 SS 289.8
 CRT -.1669 CRS .3535 CST -.9748
 LSA 812.6 MSA 391.3 SSA 30.0
 EL1 760.6 EL2 389.7 ALF 173.20

LAUNCH DATE MAR 12 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 537.549

RL 148.66 LAL .00 LOL 171.24 VL 25.920 GAL 3.75 AZL 90.48 MCA 273.34 SMA 119.18 ECC .25539 INC .4845 V1 29.972
 RP 107.70 LAP .48 LOP 84.58 VP 36.756 GAP 13.75 AZP 90.03 TAL 168.92 TAP 82.26 RCA 88.74 APO 149.61 V2 35.187
 RC 196.245 GL -2.92 GP -13.31 ZAL 73.34 ZAP 166.38 ETS 285.90 ZAE 132.73 ETE 192.33 ZAC 177.75 ETC 27.62 CLP-177.08

PLANETOCENTRIC CONIC

C3 18.407 VHL 4.290 CLA 20.29 RAL 98.44 RAD 6567.7 VEL 11.823 PTH 2.09 VHP 9.165 OPA 10.80 RAP 88.29 ECC 1.3029
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 44 10 2884.73 -28.32 88.02 325.73 89.71 4 32 15 2284.7 -28.06 79.36
 90.00 21 27 50 4148.87 -1.61 169.13 318.77 61.73 22 36 59 3548.9 -5.38 162.48
 100.00 5 18 40 2580.01 -29.86 65.59 325.72 91.35 6 1 40 1980.0 -29.36 56.82
 100.00 22 36 1 3928.82 -.26 152.20 318.01 60.11 23 41 30 3328.8 -4.23 145.67
 110.00 6 55 1 2278.57 -33.77 42.41 325.44 95.61 7 33 0 1678.6 -32.63 33.36
 110.00 23 16 9 3803.02 3.06 140.59 315.94 55.94 24 19 32 3203.0 -1.43 134.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.3216 TRA 1.8678 TC3-5.4394 BAU 1.3394 SGT 5388.9 SGR 474.0 SG3 117.9 ST 916.8 SR 389.5 SS 318.6
 RDE .2872 RRA .1586 RC3 -.1903 FAU .01921 RRT .4690 RRF .4436 RTF .9030 CRT -.3080 CRS .4177 CST -.9891
 FDE -.1717 FRA .7722 FC3 -.9036 BSP 17339 SGB 5405.8 R23 .0198 R13 .9031 LSA 978.9 MSA 367.2 SSA 26.2
 BDE .4311 BRA 1.8745 BC3 5.4427 FSP -389 SGI 5393.6 SG2 418.3 THA 2.38 EL1 926.1 EL2 366.8 ALF 171.15

LAUNCH DATE MAR 12 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 542.891

RL 148.66 LAL .00 LOL 171.24 VL 25.869 GAL 4.47 AZL 90.68 MCA 276.57 SMA 118.89 ECC .26153 INC .6768 V1 29.972
 RP 107.67 LAP .67 LOP 87.81 VP 36.728 GAP 14.18 AZP 90.08 TAL 167.13 TAP 83.70 RCA 87.80 APO 149.99 V2 35.196
 RC 197.986 GL -3.91 GP -12.99 ZAL 69.68 ZAP 166.83 ETS 283.03 ZAE 132.87 ETE 192.07 ZAC 175.34 ETC 19.27 CLP-177.81

PLANETOCENTRIC CONIC

C3 19.976 VHL 4.469 CLA 19.04 RAL 102.27 RAD 6567.8 VEL 11.889 PTH 2.11 VHP 9.409 OPA 11.27 RAP 90.76 ECC 1.3288
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 23 2852.37 -28.30 85.65 330.55 90.90 5 0 56 2252.4 -27.88 77.01
 90.00 21 29 11 4219.85 -.68 173.09 323.36 61.69 22 39 31 3619.9 -3.11 166.46
 100.00 5 46 26 2552.34 -29.80 63.53 330.50 92.43 6 28 58 1952.3 -29.15 54.79
 100.00 22 38 49 3995.12 1.99 155.84 322.63 60.17 23 45 24 3395.1 -1.99 149.32
 110.00 7 20 1 2259.51 -33.64 40.94 330.15 96.47 7 57 41 1659.5 -32.38 31.93
 110.00 23 21 43 3860.71 5.26 143.62 320.60 56.18 24 26 4 3260.7 .78 137.39

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.4744 TRA 2.1824 TC3-5.0118 BAU 1.3392 SGT 5403.6 SGR 469.2 SG3 115.5 ST 1084.6 SR 381.4 SS 346.7
 RDE .2922 RRA .1752 RC3 -.1710 FAU .01785 RRT .4576 RRF .4320 RTF .9073 CRT -.3963 CRS .4628 CST -.9947
 FDE -.2065 FRA .8202 FC3 -.7738 BSP 17366 SGB 5424.0 R23 .0162 R13 .9074 LSA 1149.5 MSA 346.5 SSA 23.2
 BDE .5572 BRA 2.1894 BC3 5.0147 FSP -380 SGI 5407.9 SG2 416.9 THA 2.29 EL1 1096.2 EL2 346.4 ALF 171.18

LAUNCH DATE MAR 12 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 548.171

RL 148.66 LAL .00 LOL 171.24 VL 25.818 GAL 5.23 AZL 90.87 MCA 279.80 SMA 118.61 ECC .26825 INC .8719 V1 29.972
 RP 107.64 LAP .86 LOP 91.05 VP 36.701 GAP 14.65 AZP 90.15 TAL 165.36 TAP 85.16 RCA 86.80 APO 150.43 V2 35.205
 RC 199.701 GL -4.80 GP -12.69 ZAL 66.16 ZAP 167.22 ETS 279.93 ZAE 133.00 ETE 191.83 ZAC 172.90 ETC 16.58 CLP-178.54

PLANETOCENTRIC CONIC

C3 21.880 VHL 4.678 CLA 17.81 RAL 105.90 RAD 6567.9 VEL 11.969 PTH 2.13 VHP 9.673 OPA 11.67 RAP 93.23 ECC 1.3601
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 40 42 2825.79 -28.26 83.71 335.35 91.87 5 27 48 2225.8 -27.70 75.09
 90.00 21 30 46 4290.11 2.94 177.01 327.98 61.82 22 42 16 3690.1 -.85 170.38
 100.00 6 12 31 2529.73 -29.73 61.85 335.27 93.30 6 54 40 1929.7 -28.95 53.14
 100.00 22 41 39 4061.40 4.23 159.49 327.27 60.38 23 49 20 3461.4 .25 152.96
 110.00 7 43 41 2244.48 -33.52 39.78 334.87 97.15 8 21 5 1644.5 -32.17 30.81
 110.00 23 26 58 3919.41 7.47 146.72 325.26 56.55 24 32 18 3319.4 3.02 140.46

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.6414 TRA 2.5088 TC3-4.5752 BAU 1.3390 SGT 5418.0 SGR 462.8 SG3 113.1 ST 1253.5 SR 372.6 SS 374.3
 RDE .2981 RRA .1915 RC3 -.1517 FAU .01660 RRT .4450 RRF .4194 RTF .9121 CRT -.4598 CRS .5004 CST -.9972
 FDE -.2422 FRA .8680 FC3 -.6566 BSP 17478 SGB 5437.8 R23 .0124 R13 .9121 LSA 1320.0 MSA 327.6 SSA 20.9
 BDE .7073 BRA 2.5161 BC3 4.5777 FSP -375 SGI 5422.0 SG2 414.1 THA 2.19 EL1 1266.0 EL2 327.6 ALF 171.65

LAUNCH DATE MAR 12 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 553.378

RL 148.66 LAL .00 LOL 171.24 VL 25.768 GAL 6.04 AZL 91.07 MCA 283.03 SMA 118.34 ECC .27562 INC 1.0708 V1 29.972
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.674 GAP 15.15 AZP 90.24 TAL 163.61 TAP 86.64 RCA 85.73 APO 150.96 V2 35.213
 RC 201.391 GL -5.59 GP -12.43 ZAL 62.82 ZAP 167.55 ETS 276.60 ZAE 133.11 ETE 191.60 ZAC 170.46 ETC 15.23 CLP-179.28

PLANETOCENTRIC CONIC

C3 24.168 VHL 4.916 CLA 16.62 RAL 109.31 RAD 6568.0 VEL 12.064 PTH 2.16 VHP 9.962 OPA 12.01 RAP 95.72 ECC 1.3977
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 6 10 2804.78 -28.20 82.17 340.11 92.64 5 52 55 2204.8 -27.54 73.57
 90.00 21 32 32 4359.57 5.17 180.90 332.60 62.12 22 45 11 3759.6 1.40 174.25
 100.00 6 36 54 2512.14 -29.65 60.55 340.01 93.99 7 18 47 1912.1 -28.78 51.86
 100.00 22 44 28 4127.44 6.44 163.14 331.90 60.75 23 53 15 3527.4 2.49 156.58
 110.00 8 5 56 2233.60 -33.42 38.95 339.56 97.63 8 43 10 1633.6 -32.01 30.00
 110.00 23 31 56 3978.74 9.69 149.89 329.93 57.06 24 38 15 3378.7 5.28 143.57

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.8173 TRA 2.8526 TC3-4.1319 BAU 1.3357 SGT 5426.7 SGR 455.0 SG3 110.7 ST 1416.2 SR 363.6 SS 400.8
 RDE .3051 RRA .2073 RC3 -.1326 FAU .01537 RRT .4316 RRF .4063 RTF .9171 CRT -.5040 CRS .5292 CST -.9983
 FDE -.2774 FRA .9173 FC3 -.5505 BSP 17570 SGB 5445.8 R23 .0091 R13 .9171 LSA 1483.6 MSA 311.3 SSA 19.1
 BDE .8724 BRA 2.8601 BC3 4.1340 FSP -369 SGI 5430.3 SG2 410.2 THA 2.08 EL1 1428.6 EL2 311.3 ALF 172.26

LAUNCH DATE MAR 12 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 558.500

RL 148.66 LAL .00 LOL 171.24 VL 25.720 GAL 6.89 AZL 91.28 MCA 286.27 SMA 118.08 ECC .28372 INC 1.2751 VI 29.972
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.648 GAP 15.70 AZP 90.36 TAL 161.89 TAP 88.16 RCA 84.58 APO 151.58 V2 35.221
 RC 203.056 GL -6.29 GP -12.18 ZAL 59.67 ZAP 167.82 ETS 273.05 ZAE 133.21 ETE 191.38 ZAC 168.03 ETC 14.41 CLP 179.96

PLANETOCENTRIC CONIC

C3 26.900 VHL 5.187 DLA 15.47 RAL 112.50 RAD 6568.1 VEL 12.177 PTH 2.19 VHP 10.277 DPA 12.27 RAP 98.20 ECC 1.4427
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 29 48 2789.13 -28.15 81.03 344.83 93.21 6 16 17 2189.1 -27.41 72.44
 90.00 21 34 22 4428.10 7.33 184.77 337.22 62.57 22 48 11 3828.1 3.60 178.08
 100.00 6 59 38 2499.46 -29.59 59.61 344.72 94.48 7 41 17 1899.5 -28.65 50.94
 100.00 22 47 14 4193.00 8.60 166.81 336.54 61.26 23 57 7 3593.0 4.70 160.19
 110.00 8 26 45 2226.87 -33.36 38.43 344.24 97.93 9 3 52 1626.9 -31.90 29.51
 110.00 23 36 36 4038.35 11.87 153.12 334.58 57.71 24 43 55 3438.4 7.53 146.72

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.0022 TRA 3.2159 TC3-3.6944 BAU 1.3293 SGT 5431.3 SGR 446.1 SG3 108.4 ST 1569.0 SR 354.6 SS 425.8
 RDE .3134 RRA .2227 RC3 -.1139 FAU .01416 RRT .4171 RRF .3929 RTF .9221 CRT -.5360 CRS .5513 CST -.9989
 FDE -.3120 FRA .9688 FC3 -.4556 BSP 17634 SGB 5449.6 R23 .0068 R13 .9221 LSA 1637.1 MSA 297.1 SSA 17.6
 BOE 1.0501 BRA 3.2236 BC3 3.6961 FSP -362 SG1 5434.5 SG2 405.2 THA 1.97 EL1 1580.9 EL2 297.1 ALF 172.84

LAUNCH DATE MAR 12 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 563.523

RL 148.66 LAL .00 LOL 171.24 VL 25.672 GAL 7.79 AZL 91.49 MCA 289.50 SMA 117.82 ECC .29261 INC 1.4863 VI 29.972
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.621 GAP 16.29 AZP 90.50 TAL 160.20 TAP 89.70 RCA 83.35 APO 152.30 V2 35.228
 RC 204.697 GL -6.90 GP -11.95 ZAL 56.70 ZAP 168.02 ETS 269.30 ZAE 133.28 ETE 191.18 ZAC 165.61 ETC 13.85 CLP 179.20

PLANETOCENTRIC CONIC

C3 30.150 VHL 5.491 DLA 14.37 RAL 115.48 RAD 6568.2 VEL 12.309 PTH 2.22 VHP 10.621 DPA 12.47 RAP 100.68 ECC 1.4962
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 51 41 2778.59 -28.11 80.26 349.50 93.59 6 38 0 2178.6 -27.31 71.69
 90.00 21 36 17 4495.59 9.43 188.63 341.83 63.18 22 51 12 3895.6 5.76 181.87
 100.00 7 20 42 2491.51 -29.54 59.03 349.38 94.78 8 2 14 1891.5 -28.57 50.36
 100.00 22 49 57 4257.91 10.71 170.48 341.16 61.92 24 0 54 3657.9 6.87 163.79
 110.00 8 46 7 2224.23 -33.33 38.23 348.88 98.05 9 23 12 1624.2 -31.86 29.31
 110.00 23 41 1 4097.95 14.02 156.40 339.22 58.50 24 49 19 3497.9 9.75 149.91

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.1928 TRA 3.6028 TC3-3.2759 BAU 1.3210 SGT 5436.2 SGR 436.1 SG3 106.2 ST 1707.7 SR 345.8 SS 449.0
 RDE .3231 RRA .2373 RC3 -.0960 FAU .01293 RRT .4014 RRF .3792 RTF .9267 CRT -.5589 CRS .5679 CST -.9992
 FDE -.3453 FRA 1.0236 FC3 -.3713 BSP 17591 SGB 5453.6 R23 .0057 R13 .9267 LSA 1776.5 MSA 284.9 SSA 16.4
 BOE 1.2358 BRA 3.6106 BC3 3.2773 FSP -354 SG1 5439.0 SG2 399.2 THA 1.85 EL1 1718.9 EL2 284.9 ALF 173.36

LAUNCH DATE MAR 12 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 568.427

RL 148.66 LAL .00 LOL 171.24 VL 25.625 GAL 8.75 AZL 91.71 MCA 292.74 SMA 117.57 ECC .30241 INC 1.7063 VI 29.972
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.594 GAP 16.93 AZP 90.66 TAL 158.55 TAP 91.29 RCA 82.02 APO 153.13 V2 35.235
 RC 206.313 GL -7.43 GP -11.75 ZAL 53.92 ZAP 168.15 ETS 265.36 ZAE 133.33 ETE 190.98 ZAC 163.20 ETC 13.44 CLP 178.42

PLANETOCENTRIC CONIC

C3 34.007 VHL 5.832 DLA 13.34 RAL 118.25 RAD 6568.3 VEL 12.465 PTH 2.25 VHP 10.999 DPA 12.61 RAP 103.15 ECC 1.5597
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 11 52 2772.86 -28.08 79.85 354.12 93.80 6 58 5 2172.9 -27.26 71.28
 90.00 21 38 12 4561.89 11.44 192.46 346.42 63.92 22 54 13 3961.9 7.84 185.63
 100.00 7 40 11 2488.06 -29.52 58.77 353.99 94.91 8 21 39 1888.1 -28.53 50.11
 100.00 22 52 34 4321.93 12.73 174.15 345.76 62.72 24 4 36 3721.9 8.98 167.38
 110.00 9 4 5 2225.50 -33.35 38.33 353.49 97.99 9 41 11 1625.5 -31.88 29.41
 110.00 23 45 9 4157.25 16.10 159.74 343.83 59.43 24 54 26 3557.2 11.92 153.12

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.3977 TRA 4.0080 TC3-2.8663 BAU 1.3037 SGT 5425.9 SGR 424.6 SG3 104.1 ST 1835.7 SR 336.8 SS 471.8
 RDE .3340 RRA .2505 RC3 -.0798 FAU .01179 RRT .3837 RRF .3634 RTF .9327 CRT -.5793 CRS .5839 CST -.9994
 FDE -.3799 FRA 1.0798 FC3 -.3001 BSP 17677 SGB 5442.5 R23 .0040 R13 .9327 LSA 1905.6 MSA 273.0 SSA 15.2
 BOE 1.4370 BRA 4.0158 BC3 2.8674 FSP -348 SG1 5428.4 SG2 391.9 THA 1.73 EL1 1846.3 EL2 272.9 ALF 173.80

LAUNCH DATE MAR 12 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 573.191

RL 148.66 LAL .00 LOL 171.24 VL 25.580 GAL 9.78 AZL 91.94 MCA 295.98 SMA 117.33 ECC .31323 INC 1.9370 VI 29.972
 RP 107.53 LAP 1.74 LOP 107.24 VP 36.568 GAP 17.64 AZP 90.85 TAL 156.94 TAP 92.92 RCA 80.58 APO 154.08 V2 35.240
 RC 207.904 GL -7.88 GP -11.56 ZAL 51.34 ZAP 168.20 ETS 261.27 ZAE 133.36 ETE 190.79 ZAC 160.82 ETC 13.13 CLP 177.61

PLANETOCENTRIC CONIC

C3 38.580 VHL 6.211 DLA 12.37 RAL 120.82 RAD 6568.5 VEL 12.647 PTH 2.30 VHP 11.416 DPA 12.69 RAP 105.61 ECC 1.6349
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 30 26 2771.64 -28.08 79.76 358.68 93.84 7 16 38 2171.6 -27.25 71.19
 90.00 21 40 6 4626.87 13.36 196.27 350.98 64.80 22 57 13 4026.9 9.85 189.34
 100.00 7 58 7 2488.84 -29.53 58.83 358.55 94.88 8 39 36 1888.8 -28.54 50.17
 100.00 22 55 6 4384.90 14.67 177.83 350.33 63.66 24 8 11 3784.9 11.01 170.95
 110.00 9 20 41 2230.50 -33.39 38.71 358.05 97.77 9 57 51 1630.5 -31.96 29.77
 110.00 23 49 2 4216.00 18.10 163.12 348.43 60.50 24 59 18 3616.0 14.04 156.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE-1.6114 TRA 4.4385 TC3-2.4900 BAU 1.2848 SGT 5417.3 SGR 412.0 SG3 102.0 ST 1949.2 SR 327.9 SS 493.6
 RDE .3462 RRA .2621 RC3 -.0649 FAU .01065 RRT .3638 RRF .3461 RTF .9382 CRT -.5963 CRS .5977 CST -.9996
 FDE -.4144 FRA 1.1397 FC3 -.2389 BSP 17710 SGB 5433.0 R23 .0032 R13 .9382 LSA 2020.3 MSA 262.0 SSA 14.2
 BOE 1.6482 BRA 4.4463 BC3 2.4909 FSP -342 SG1 5419.4 SG2 383.7 THA 1.59 EL1 1959.2 EL2 261.9 ALF 174.17

LAUNCH DATE MAR 12 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

RL 148.66 LAL .00 LOL 171.24 VL 25.535 GAL 10.88 AZL 92.18 MCA 299.22 SMA 117.09 ECC .32519 INC 2.1808 V1 29.972
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.542 GAP 18.41 AZP 91.06 TAL 155.39 TAP 94.60 RCA 79.02 APO 155.17 V2 35.246
 RC 209.470 GL -8.27 GP -11.38 ZAL 48.95 ZAP 168.18 ETS 257.07 ZAE 133.36 ETE 190.60 ZAC 158.45 ETC 12.89 CLP 176.78

PLANETOCENTRIC CONIC

C3 44.008 VHL 6.634 OLA 11.47 RAL 123.19 RAD 6568.7 VEL 12.860 PTH 2.34 VHP 11.875 DPA 12.71 RAP 108.05 ECC 1.7243
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 47 27 2774.56 -28.09 79.97 3.17 93.74 7 33 41 2174.6 -27.28 71.40
 90.00 21 41 59 4690.37 15.16 200.06 355.51 65.80 23 0 10 4090.4 11.77 193.02
 100.00 8 14 35 2493.53 -29.55 59.18 3.04 94.70 8 56 8 1893.5 -28.59 50.51
 100.00 22 57 32 4446.63 16.50 181.50 354.87 64.71 24 11 39 3846.6 12.96 174.50
 110.00 9 35 56 2238.96 -33.47 39.36 2.56 97.40 10 13 15 1639.0 -32.08 30.40
 110.00 23 52 40 4273.97 20.01 166.53 353.00 61.69 25 3 54 3674.0 16.07 159.62

DIFFERENTIAL CORRECTIONS

TDE-1.8324 TRA 4.9005 TC3-2.1369 BAU 1.2576
 RDE .3601 RRA .2720 RC3 -.0514 FAU .00946
 FDE -.4482 FRA 1.2046 FC3 -.1861 BSP 17627
 BDE 1.8674 BRA 4.9081 BC3 2.1375 FSP -333

MID-COURSE EXECUTION ACCURACY

SGT 5403.3 SGR 398.6 SG3 99.9
 RRT .3418 RRF .3273 RTF .9437
 SGB 5417.9 R23 .0033 R13 .9437
 SG1 5405.0 SG2 374.4 THA 1.45

ORBIT DETERMINATION ACCURACY

ST 2047.1 SR 319.3 SS 514.4
 CRT -.6104 CRS .6091 CST -.9996
 LSA 2119.8 MSA 251.8 SSA 13.4
 EL1 2056.5 EL2 251.7 ALF 174.48

LAUNCH DATE MAR 12 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

RL 148.66 LAL .00 LOL 171.24 VL 25.492 GAL 12.07 AZL 92.44 MCA 302.45 SMA 116.86 ECC .33846 INC 2.4407 V1 29.972
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.516 GAP 19.26 AZP 91.31 TAL 153.90 TAP 96.35 RCA 77.31 APO 156.42 V2 35.250
 RC 211.012 GL -8.59 GP -11.22 ZAL 46.74 ZAP 168.07 ETS 252.78 ZAE 133.32 ETE 190.41 ZAC 156.12 ETC 12.70 CLP 175.93

PLANETOCENTRIC CONIC

C3 50.461 VHL 7.104 OLA 10.64 RAL 125.36 RAD 6568.9 VEL 13.108 PTH 2.39 VHP 12.385 DPA 12.67 RAP 110.45 ECC 1.8305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 2 58 2781.27 -28.12 80.46 7.58 93.49 7 49 20 2181.3 -27.34 71.88
 90.00 21 43 50 4752.21 16.85 203.81 359.98 66.90 23 3 2 4152.2 13.58 196.66
 100.00 8 29 37 2501.81 -29.60 59.79 7.46 94.38 9 11 19 1901.8 -28.68 51.11
 100.00 22 59 52 4506.90 18.21 185.15 359.36 65.88 24 14 59 3906.9 14.80 178.02
 110.00 9 49 54 2250.59 -33.57 40.25 7.00 96.87 10 27 25 1650.6 -32.25 31.27
 110.00 0 0 0 4330.89 21.81 169.96 357.53 63.00 1 12 11 3730.9 18.01 162.89

DIFFERENTIAL CORRECTIONS

TDE-2.0703 TRA 5.3784 TC3-1.8174 BAU 1.2263
 RDE .3754 RRA .2791 RC3 -.0397 FAU .00834
 FDE -.4843 FRA 1.2728 FC3 -.1430 BSP 17665
 BDE 2.1041 BRA 5.3956 BC3 1.8178 FSP -328

MID-COURSE EXECUTION ACCURACY

SGT 5386.2 SGR 383.8 SG3 97.9
 RRT .3159 RRF .3044 RTF .9493
 SGB 5399.8 R23 .0033 R13 .9493
 SG1 5387.5 SG2 364.1 THA 1.30

ORBIT DETERMINATION ACCURACY

ST 2134.1 SR 310.5 SS 535.9
 CRT -.6253 CRS .6221 CST -.9997
 LSA 2209.0 MSA 241.4 SSA 12.6
 EL1 2143.0 EL2 241.3 ALF 174.74

LAUNCH DATE MAR 12 1969

FLIGHT TIME 202.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

RL 148.66 LAL .00 LOL 171.24 VL 25.449 GAL 13.37 AZL 92.72 MCA 305.69 SMA 116.64 ECC .35322 INC 2.7200 V1 29.972
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.490 GAP 20.21 AZP 91.59 TAL 152.49 TAP 98.18 RCA 75.44 APO 157.84 V2 35.254
 RC 212.528 GL -8.86 GP -11.07 ZAL 44.72 ZAP 167.88 ETS 248.44 ZAE 133.24 ETE 190.22 ZAC 153.82 ETC 12.55 CLP 175.03

PLANETOCENTRIC CONIC

C3 58.158 VHL 7.626 OLA 9.88 RAL 127.35 RAD 6569.1 VEL 13.398 PTH 2.45 VHP 12.953 DPA 12.59 RAP 112.82 ECC 1.9571
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 17 4 2791.40 -28.16 81.20 11.89 93.12 8 3 35 2191.4 -27.43 72.61
 90.00 21 45 37 4812.20 18.42 207.52 4.39 68.10 23 5 49 4212.2 15.28 200.24
 100.00 8 43 17 2513.33 -29.66 60.64 11.79 93.94 9 25 10 1913.3 -28.79 51.94
 100.00 23 2 5 4565.51 19.80 188.78 3.78 67.14 24 18 10 3965.5 16.54 181.51
 110.00 10 2 37 2265.08 -33.68 41.37 11.37 96.22 10 40 22 1665.1 -32.45 32.35
 110.00 0 3 10 4386.51 23.49 173.41 2.00 64.42 1 16 17 3786.5 19.85 166.16

DIFFERENTIAL CORRECTIONS

TDE-2.3214 TRA 5.9110 TC3-1.5256 BAU 1.1864
 RDE .3924 RRA .2832 RC3 -.0297 FAU .00718
 FDE -.5215 FRA 1.3465 FC3 -.1069 BSP 17678
 BDE 2.3543 BRA 5.9178 BC3 1.5259 FSP -322

MID-COURSE EXECUTION ACCURACY

SGT 5364.5 SGR 368.3 SG3 96.0
 RRT .2859 RRF .2778 RTF .9549
 SGB 5377.1 R23 .0037 R13 .9549
 SG1 5365.5 SG2 352.8 THA 1.13

ORBIT DETERMINATION ACCURACY

ST 2208.1 SR 301.9 SS 557.8
 CRT -.6398 CRS .6350 CST -.9997
 LSA 2285.7 MSA 231.2 SSA 11.9
 EL1 2216.6 EL2 231.1 ALF 174.95

LAUNCH DATE MAR 12 1969

FLIGHT TIME 204.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

RL 148.66 LAL .00 LOL 171.24 VL 25.409 GAL 14.77 AZL 93.02 MCA 308.93 SMA 116.43 ECC .36968 INC 3.0231 V1 29.972
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.464 GAP 21.26 AZP 91.90 TAL 151.16 TAP 100.10 RCA 73.39 APO 159.47 V2 35.256
 RC 214.018 GL -9.08 GP -10.93 ZAL 42.89 ZAP 167.59 ETS 244.10 ZAE 133.11 ETE 190.03 ZAC 151.56 ETC 12.43 CLP 174.09

PLANETOCENTRIC CONIC

C3 67.373 VHL 8.208 OLA 9.20 RAL 129.16 RAD 6569.3 VEL 13.738 PTH 2.51 VHP 13.587 DPA 12.47 RAP 115.14 ECC 2.1088
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 29 46 2804.60 -28.20 82.16 16.09 92.64 8 16 31 2204.6 -27.54 73.56
 90.00 21 47 20 4870.09 19.85 211.16 8.70 69.38 23 8 30 4270.1 16.86 203.76
 100.00 8 55 37 2527.74 -29.72 61.71 16.00 93.38 9 37 45 1927.7 -28.93 52.99
 100.00 23 4 11 4622.18 21.26 192.35 8.12 68.48 24 21 13 4022.2 18.15 184.94
 110.00 10 14 6 2282.13 -33.80 42.69 15.63 95.45 10 52 8 1682.1 -32.67 33.63
 110.00 0 6 7 4440.56 25.03 176.85 6.40 65.93 1 20 7 3840.6 21.57 169.41

DIFFERENTIAL CORRECTIONS

TDE-2.5872 TRA 6.4730 TC3-1.2614 BAU 1.1364
 RDE .4114 RRA .2836 RC3 -.0212 FAU .00597
 FDE -.5602 FRA 1.4268 FC3 -.0768 BSP 17670
 BDE 2.6197 BRA 6.4792 BC3 1.2616 FSP -316

MID-COURSE EXECUTION ACCURACY

SGT 5338.6 SGR 352.0 SG3 94.1
 RRT .2509 RRF .2463 RTF .9604
 SGB 5350.2 R23 .0045 R13 .9604
 SG1 5339.3 SG2 340.7 THA .95

ORBIT DETERMINATION ACCURACY

ST 2269.6 SR 293.4 SS 580.5
 CRT -.6546 CRS .6484 CST -.9998
 LSA 2350.5 MSA 221.2 SSA 11.2
 EL1 2277.8 EL2 221.0 ALF 175.12

LAUNCH DATE MAR 12 1969

FLIGHT TIME 206.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 593.651

RL 148.66 LAL .00 LOL 171.24 VL 25.369 GAL 16.31 AZL 93.36 HCA 312.17 SMA 116.23 ECC .38811 INC 3.3552 V1 29.972
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.439 GAP 22.45 AZP 92.25 TAL 149.95 TAP 102.12 RCA 71.12 APO 161.34 V2 35.259
 RC 215.482 GL -9.26 GP -10.81 ZAL 41.23 ZAP 167.20 ETS 239.78 ZAE 132.92 ETE 189.82 ZAC 149.36 ETC 12.33 CLP 173.10

PLANETOCENTRIC CONIC

C3 78.464 VHL 8.858 DLA 8.59 RAL 130.79 RAD 6569.5 VEL 14.136 PTH 2.58 VHP 14.300 DPA 12.30 RAP 117.41 ECC 2.2913
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 7 2820.50 -28.25 83.32 20.17 92.06 8 28 8 2220.5 -27.66 74.70
 90.00 21 48 58 4925.61 21.14 214.72 12.91 70.71 23 11 4 4325.6 18.31 207.19
 100.00 9 6 38 2544.70 -29.78 62.96 20.09 92.72 9 49 3 1944.7 -29.08 54.23
 100.00 23 6 9 4676.65 22.58 195.86 12.35 69.87 24 24 5 4076.6 19.63 188.30
 110.00 10 24 23 2301.39 -33.91 44.18 19.78 94.58 11 2 44 1701.4 -32.91 35.09
 110.00 0 8 49 4492.72 26.44 180.25 10.70 67.50 1 23 42 3892.7 23.15 172.63

DIFFERENTIAL CORRECTIONS

TDE-2.8698 TRA 7.0794 TC3-1.0235 BAU 1.0737
 RDE .4325 RRA .2795 RC3 -.0143 FAU .00469
 FDE -.6010 FRA 1.5148 FC3 -.0517 BSP 17638
 BOE 2.9022 BRA 7.0849 BC3 1.0236 FSP -310

MID-COURSE EXECUTION ACCURACY

SGT 5308.5 SGR 335.2 SG3 92.3
 RRT .2097 RRF .2087 RTF .9657
 SGB 5319.0 R23 .0055 R13 .9657
 SG1 5308.9 SG2 327.7 THA .76

ORBIT DETERMINATION ACCURACY

ST 2319.2 SR 285.1 SS 604.6
 CRT -.6701 CRS .6626 CST -.9998
 LSA 2404.4 MSA 211.1 SSA 10.6
 EL1 2327.2 EL2 210.9 ALF 175.25

LAUNCH DATE MAR 12 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC

DISTANCE 596.664

RL 148.66 LAL .00 LOL 171.24 VL 25.332 GAL 18.01 AZL 93.72 HCA 315.41 SMA 116.04 ECC .40881 INC 3.7233 V1 29.972
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.414 GAP 23.78 AZP 92.65 TAL 148.87 TAP 104.27 RCA 68.60 APO 163.47 V2 35.260
 RC 216.920 GL -9.39 GP -10.68 ZAL 39.77 ZAP 166.71 ETS 235.52 ZAE 132.67 ETE 189.61 ZAC 147.22 ETC 12.26 CLP 172.04

PLANETOCENTRIC CONIC

C3 91.894 VHL 9.586 DLA 8.05 RAL 132.24 RAD 6569.8 VEL 14.603 PTH 2.65 VHP 15.105 DPA 12.10 RAP 119.60 ECC 2.5123
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 51 6 2838.80 -28.29 84.66 24.08 91.39 8 38 25 2238.8 -27.79 76.03
 90.00 21 50 32 4978.44 22.28 218.17 16.97 72.06 23 13 30 4378.4 19.62 210.51
 100.00 9 16 20 2563.91 -29.83 64.39 24.03 91.97 9 59 4 1963.9 -29.24 55.63
 100.00 23 7 59 4728.56 23.75 199.27 16.44 71.30 24 26 48 4128.6 20.98 191.57
 110.00 10 33 27 2322.59 -34.02 45.83 23.79 93.61 11 12 9 1722.6 -33.14 36.70
 110.00 0 11 18 4542.65 27.69 183.59 14.86 69.11 1 27 0 3942.6 24.60 175.78

DIFFERENTIAL CORRECTIONS

TDE-3.1687 TRA 7.7389 TC3 -.8091 BAU .9941
 RDE .4563 RRA .2698 RC3 -.0088 FAU .00324
 FDE -.6438 FRA 1.6125 FC3 -.0305 BSP 17525
 BOE 3.2014 BRA 7.7436 BC3 .8092 FSP -303

MID-COURSE EXECUTION ACCURACY

SGT 5274.1 SGR 318.1 SG3 90.6
 RRT .1612 RRF .1637 RTF .9707
 SGB 5283.7 R23 .0067 R13 .9707
 SG1 5274.4 SG2 314.0 THA .56

ORBIT DETERMINATION ACCURACY

ST 2356.5 SR 277.1 SS 630.4
 CRT -.6862 CRS .6775 CST -.9998
 LSA 2446.8 MSA 201.2 SSA 10.0
 EL1 2364.2 EL2 200.9 ALF 175.35

LAUNCH DATE MAR 12 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC

DISTANCE 599.094

RL 148.66 LAL .00 LOL 171.24 VL 25.296 GAL 19.90 AZL 94.14 HCA 318.64 SMA 115.85 ECC .43214 INC 4.1361 V1 29.972
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.390 GAP 25.29 AZP 93.11 TAL 147.94 TAP 106.58 RCA 65.79 APO 165.92 V2 35.261
 RC 218.330 GL -9.49 GP -10.57 ZAL 38.49 ZAP 166.09 ETS 231.33 ZAE 132.33 ETE 189.38 ZAC 145.15 ETC 12.20 CLP 170.91

PLANETOCENTRIC CONIC

C3 108.268 VHL 10.405 DLA 7.59 RAL 133.50 RAD 6570.1 VEL 15.153 PTH 2.72 VHP 16.019 DPA 11.88 RAP 121.71 ECC 2.7818
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 59 43 2859.18 -28.31 86.15 27.82 90.65 8 47 22 2259.2 -27.92 77.51
 90.00 21 51 59 5028.19 23.29 221.47 20.84 73.42 23 15 47 4428.2 20.80 213.69
 100.00 9 24 42 2585.06 -29.87 65.96 27.79 91.15 10 7 47 1985.1 -29.39 57.19
 100.00 23 9 41 4777.54 24.78 202.54 20.34 72.73 24 29 18 4177.5 -22.19 194.71
 110.00 10 41 17 2345.41 -34.10 47.60 27.63 92.56 11 20 22 1745.4 -33.37 38.44
 110.00 0 13 31 4589.95 28.80 186.82 18.86 70.74 1 30 1 3990.0 25.90 178.84

DIFFERENTIAL CORRECTIONS

TDE-3.4936 TRA 8.4515 TC3 -.6200 BAU .8974
 RDE .4831 RRA .2533 RC3 -.0047 FAU .00166
 FDE -.6910 FRA 1.7197 FC3 -.0133 BSP 17489
 BOE 3.5269 BRA 8.4553 BC3 .6200 FSP -298

MID-COURSE EXECUTION ACCURACY

SGT 5235.3 SGR 301.1 SG3 88.9
 RRT .1025 RRF .1081 RTF .9754
 SGB 5243.9 R23 .0079 R13 .9754
 SG1 5235.4 SG2 299.5 THA .34

ORBIT DETERMINATION ACCURACY

ST 2384.6 SR 269.3 SS 659.3
 CRT -.7042 CRS .6946 CST -.9998
 LSA 2481.3 MSA 191.0 SSA 9.3
 EL1 2392.2 EL2 190.6 ALF 175.42

LAUNCH DATE MAR 12 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 10 1969

HELIOCENTRIC CONIC

DISTANCE 600.788

RL 148.66 LAL .00 LOL 171.24 VL 25.263 GAL 22.00 AZL 94.61 HCA 321.88 SMA 115.68 ECC .45852 INC 4.6056 V1 29.972
 RP 107.47 LAP 2.84 LOP 133.21 VP 36.367 GAP 27.01 AZP 93.63 TAL 147.21 TAP 109.08 RCA 62.64 APO 168.73 V2 35.260
 RC 219.714 GL -9.55 GP -10.46 ZAL 37.40 ZAP 165.34 ETS 227.24 ZAE 131.90 ETE 189.13 ZAC 143.18 ETC 12.17 CLP 169.67

PLANETOCENTRIC CONIC

C3 128.393 VHL 11.331 DLA 7.21 RAL 134.57 RAD 6570.4 VEL 15.803 PTH 2.80 VHP 17.062 DPA 11.64 RAP 123.73 ECC 3.1130
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 6 53 2881.42 -28.32 87.78 31.34 89.83 8 54 55 2281.4 -28.04 79.12
 90.00 21 53 19 5074.42 24.15 224.59 24.48 74.75 23 17 54 4474.4 21.83 216.69
 100.00 9 31 41 2607.92 -29.89 67.66 31.33 90.25 10 15 9 2007.9 -29.54 58.87
 100.00 23 11 13 4823.16 25.67 205.64 24.02 74.13 24 31 36 4223.2 23.25 197.68
 110.00 10 47 50 2369.63 -34.16 49.49 31.26 91.44 11 27 19 1769.6 -33.58 40.30
 110.00 0 15 30 4634.20 29.75 189.92 22.63 72.34 1 32 44 4034.2 27.05 181.77

DIFFERENTIAL CORRECTIONS

TDE-3.8423 TRA 9.2297 TC3 -.4523 BAU .7764
 RDE .5135 RRA .2285 RC3 -.0018 FAU .00019
 FDE -.7421 FRA 1.8396 FC3 .0013 BSP 17423
 BOE 3.8765 BRA 9.2325 BC3 .4523 FSP -293

MID-COURSE EXECUTION ACCURACY

SGT 5191.9 SGR 284.6 SG3 87.3
 RRT .0322 RRF .0408 RTF .9797
 SGB 5199.7 R23 .0092 R13 .9797
 SG1 5191.9 SG2 284.5 THA .10

ORBIT DETERMINATION ACCURACY

ST 2401.5 SR 262.0 SS 691.4
 CRT -.7234 CRS .7131 CST -.9998
 LSA 2506.2 MSA 180.9 SSA 8.8
 EL1 2409.0 EL2 180.3 ALF 175.46

LAUNCH DATE MAR 12 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 12 1969

HELIOCENTRIC CONIC

DISTANCE 601.538

RL 148.66 LAL .00 LOL 171.24 VL 25.233 GAL 24.38 AZL 95.15 MCA 325.11 SMA 115.53 ECC .48846 INC 5.1479 V1 29.972
 RP 107.47 LAP 2.94 LOP 136.46 VP 36.345 GAP 28.99 AZP 94.23 TAL 146.71 TAP 111.82 RCA 59.10 APO 171.96 V2 35.260
 RC 221.070 GL -9.59 GP -10.34 ZAL 36.53 ZAP 164.44 ETS 223.24 ZAE 131.34 ETE 188.86 ZAC 141.33 ETC 12.16 CLP 168.32

PLANETOCENTRIC CONIC

C3 153.346 VHL 12.383 DLA 6.93 RAL 135.42 RAD 6570.7 VEL 16.573 PTH 2.88 VHP 18.261 DPA 11.40 RAP 125.61 ECC 3.5237
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 12 32 2905.34 -28.30 89.53 34.60 88.95 9 0 58 2305.3 -28.14 80.86
 90.00 21 54 32 5116.62 24.88 227.46 27.84 76.02 23 19 49 4516.6 22.71 219.46
 100.00 9 37 11 2632.71 -29.89 69.47 34.63 89.30 10 21 4 2032.3 -29.66 60.68
 100.00 23 12 34 4864.89 26.42 208.52 27.41 75.47 24 33 39 4264.9 24.16 200.45
 110.00 10 53 0 2395.06 -34.18 51.48 34.65 90.27 11 32 55 1795.1 -33.77 42.26
 110.00 0 17 11 4674.90 30.56 192.81 26.12 73.88 1 35 6 4074.9 28.05 184.52

DIFFERENTIAL CORRECTIONS

TDE-4.2186 TRA10.0811 TC3 -.3047 BAU .6248
 RDE .5486 RRA .1933 RC3 -.0002 FAU-.00240
 FDE -.7984 FRA 1.9741 FC3 .0135 BSP 17340
 BDE 4.2541 BRA10.0830 BC3 .3047 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 5143.6 SGR 269.3 SG3 85.7
 RRT -.0518 RRF -.0407 RTF .9836
 SGB 5150.7 R23 -.0104 R13 -.9836
 SG1 5143.7 SG2 269.0 THA 179.84

ORBIT DETERMINATION ACCURACY

ST 2407.8 SR 255.2 SS 727.6
 CRT -.7441 CRS .7332 CST -.9998
 LSA 2522.4 MSA 170.7 SSA 8.2
 EL1 2415.3 EL2 170.0 ALF 175.47

LAUNCH DATE MAR 12 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 14 1969

HELIOCENTRIC CONIC

DISTANCE 601.073

RL 148.66 LAL .00 LOL 171.24 VL 25.206 GAL 27.07 AZL 95.79 MCA 328.34 SMA 115.39 ECC .52249 INC 5.7857 V1 29.972
 RP 107.48 LAP 3.03 LOP 139.71 VP 36.324 GAP 31.28 AZP 94.93 TAL 146.50 TAP 114.84 RCA 55.10 APO 175.69 V2 35.258
 RC 222.400 GL -9.59 GP -10.23 ZAL 35.90 ZAP 163.37 ETS 219.36 ZAE 130.64 ETE 188.56 ZAC 139.61 ETC 12.17 CLP 166.82

PLANETOCENTRIC CONIC

C3 184.583 VHL 13.586 DLA 6.74 RAL 136.06 RAD 6571.0 VEL 17.490 PTH 2.97 VHP 19.646 DPA 11.17 RAP 127.35 ECC 4.0378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 16 31 2930.85 -28.25 91.39 37.57 88.02 9 5 22 2330.9 -28.23 82.73
 90.00 21 55 36 5154.20 25.47 230.06 30.86 77.19 23 21 30 4554.2 23.45 221.97
 100.00 9 41 5 2658.13 -29.85 71.39 37.63 88.29 10 25 23 2058.1 -29.77 62.59
 100.00 23 13 43 4902.15 27.03 211.12 30.46 76.71 24 35 26 4302.2 24.93 202.95
 110.00 10 56 40 2421.56 -34.17 53.55 37.75 89.04 11 37 2 1821.6 -33.93 44.31
 110.00 0 18 33 4711.49 31.22 195.46 29.26 75.32 1 37 5 4111.5 28.89 187.03

DIFFERENTIAL CORRECTIONS

TDE-4.6218 TRA11.0168 TC3 -.1752 BAU .4322
 RDE .5892 RRA .1453 RC3 .0004 FAU-.00514
 FDE -.8600 FRA 2.1266 FC3 .0241 BSP 17168
 BDE 4.6592 BRA11.0178 BC3 .1752 FSP -282

MID-COURSE EXECUTION ACCURACY

SGT 5090.4 SGR 256.0 SG3 84.3
 RRT -.1506 RRF -.1375 RTF .9870
 SGB 5096.9 R23 -.0116 R13 -.9870
 SG1 5090.6 SG2 253.1 THA 179.57

ORBIT DETERMINATION ACCURACY

ST 2401.9 SR 249.2 SS 768.4
 CRT -.7659 CRS .7545 CST -.9998
 LSA 2529.0 MSA 160.6 SSA 7.6
 EL1 2409.5 EL2 159.7 ALF 175.44

LAUNCH DATE MAR 12 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 16 1969

HELIOCENTRIC CONIC

DISTANCE 599.030

RL 148.66 LAL .00 LOL 171.24 VL 25.183 GAL 30.15 AZL 96.55 MCA 331.56 SMA 115.28 ECC .56123 INC 6.5518 V1 29.972
 RP 107.49 LAP 3.11 LOP 142.96 VP 36.306 GAP 33.95 AZP 95.77 TAL 146.65 TAP 118.21 RCA 50.58 APO 179.98 V2 35.255
 RC 223.702 GL -9.55 GP -10.11 ZAL 35.52 ZAP 162.08 ETS 215.60 ZAE 129.75 ETE 188.21 ZAC 138.08 ETC 12.20 CLP 165.13

PLANETOCENTRIC CONIC

C3 224.077 VHL 14.969 DLA 6.66 RAL 136.43 RAD 6571.3 VEL 18.585 PTH 3.05 VHP 21.256 DPA 10.96 RAP 128.91 ECC 4.6877
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 18 38 2958.01 -28.17 93.37 40.20 87.03 9 7 56 2358.0 -28.29 84.71
 90.00 21 56 29 5186.45 25.94 232.30 33.46 78.22 23 22 55 4586.5 24.05 224.14
 100.00 9 43 9 2685.41 -29.78 73.42 40.29 87.23 10 27 55 2085.4 -29.84 64.61
 100.00 23 14 39 4934.28 27.51 213.39 33.09 77.81 24 36 53 4334.3 25.55 205.13
 110.00 10 58 39 2449.13 -34.12 55.70 40.51 87.77 11 39 29 1849.1 -34.05 46.46
 110.00 0 19 34 4743.33 31.75 197.79 31.98 76.61 1 38 37 4143.3 29.58 189.25

DIFFERENTIAL CORRECTIONS

TDE-5.0593 TRA12.0374 TC3 -.0638 BAU .1911
 RDE .6370 RRA .0813 RC3 -.0001 FAU-.00856
 FDE -.9293 FRA 2.2983 FC3 .0331 BSP 17064
 BDE 5.0993 BRA12.0377 BC3 .0638 FSP -278

MID-COURSE EXECUTION ACCURACY

SGT 5030.3 SGR 245.8 SG3 82.9
 RRT -.2642 RRF -.2501 RTF .9899
 SGB 5036.3 R23 -.0125 R13 -.9899
 SG1 5030.7 SG2 237.1 THA 179.26

ORBIT DETERMINATION ACCURACY

ST 2384.7 SR 244.0 SS 815.4
 CRT -.7890 CRS .7775 CST -.9998
 LSA 2527.5 MSA 150.5 SSA 7.0
 EL1 2392.5 EL2 149.4 ALF 175.37

LAUNCH DATE MAR 12 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 18 1969

HELIOCENTRIC CONIC

DISTANCE 594.939

RL 148.66 LAL .00 LOL 171.24 VL 25.165 GAL 33.70 AZL 97.50 MCA 334.78 SMA 115.19 ECC .60524 INC 7.4955 V1 29.972
 RP 107.50 LAP 3.19 LOP 146.22 VP 36.291 GAP 37.08 AZP 96.79 TAL 147.24 TAP 122.03 RCA 45.47 APO 184.91 V2 35.252
 RC 224.978 GL -9.49 GP -9.98 ZAL 35.44 ZAP 160.55 ETS 211.95 ZAE 128.64 ETE 187.82 ZAC 136.76 ETC 12.26 CLP 163.22

PLANETOCENTRIC CONIC

C3 274.510 VHL 16.568 DLA 6.70 RAL 136.52 RAD 6571.6 VEL 19.895 PTH 3.13 VHP 23.137 DPA 10.80 RAP 130.25 ECC 5.5177
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 18 37 2986.98 -28.05 95.48 42.43 85.98 9 8 24 2387.0 -28.32 86.83
 90.00 21 57 9 5212.58 26.29 234.14 35.57 79.08 23 24 2 4612.6 24.52 225.92
 100.00 9 43 10 2714.31 -29.66 75.56 42.55 86.11 10 28 24 2114.3 -29.89 66.76
 100.00 23 15 18 4960.48 27.87 215.25 35.22 78.73 24 37 58 4360.5 26.03 206.93
 110.00 10 58 43 2477.87 -34.02 57.94 42.89 86.45 11 40 1 1877.9 -34.14 48.70
 110.00 0 20 10 4769.69 32.15 199.74 34.19 77.70 1 39 40 4169.7 30.12 191.12

DIFFERENTIAL CORRECTIONS

TDE-5.5263 TRA13.1498 TC3 .0315 BAU .1158
 RDE .6937 RRA -.0023 RC3 -.0015 FAU-.01295
 FDE -1.0064 FRA 2.4932 FC3 .0408 BSP 16925
 BDE 5.5697 BRA13.1498 BC3 .0316 FSP -275

MID-COURSE EXECUTION ACCURACY

SGT 4962.6 SGR 239.9 SG3 81.7
 RRT -.3885 RRF -.3742 RTF .9924
 SGB 4968.4 R23 -.0132 R13 -.9924
 SG1 4963.5 SG2 221.1 THA 178.92

ORBIT DETERMINATION ACCURACY

ST 2353.5 SR 239.9 SS 869.0
 CRT -.8126 CRS .8012 CST -.9998
 LSA 2516.3 MSA 140.7 SSA 6.5
 EL1 2361.6 EL2 139.3 ALF 175.25

LAUNCH DATE MAR 13 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 22 1969

HELIOCENTRIC CONIC

DISTANCE 209.368

RL 148.70 LAL .00 LOL 172.24 VL 29.629 GAL -15.08 AZL 90.68 MCA 95.60 SMA 146.31 ECC .26067 INC .6772 V1 29.964
 RP 108.74 LAP -.67 LOP 267.84 VP 39.164 GAP -2.67 AZP 89.93 TAL 251.44 TAP 347.04 RCA 108.17 APO 184.45 V2 34.848
 RC 73.792 GL -2.34 GP 26.47 ZAL 170.32 ZAP 67.52 ETS 350.33 ZAE 155.02 ETE 81.29 ZAC 107.13 ETC 156.07 CLP -64.72

PLANETOCENTRIC CONIC

C3 68.804 VHL 8.295 OLA -1.49 RAL 2.44 RAD 6569.3 VEL 13.790 PTH 2.52 VHP 5.195 DPA 30.46 RAP 10.51 ECC 2.1323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 21 8 2474.13 -24.90 58.62 244.70 103.93 1 2 22 1874.1 -22.74 50.61
 90.00 11 57 4 5210.55 26.26 233.99 245.97 79.01 13 23 54 4610.6 24.48 225.78
 100.00 1 41 47 2213.97 -26.30 39.09 244.31 104.75 2 18 41 1614.0 -24.01 31.04
 100.00 13 19 6 4945.94 27.67 214.22 245.65 78.22 14 41 32 4345.9 25.77 205.93
 110.00 2 48 26 2005.33 -30.06 22.03 243.09 107.09 3 21 51 1405.3 -27.43 13.83
 110.00 14 28 56 4727.35 31.49 196.62 244.65 75.96 15 47 44 4127.4 29.24 188.13

DIFFERENTIAL CORRECTIONS

TDE -.3172 TRA -.7141 TC3 -.0239 BAU .2154
 RDE -.3273 RRA .4427 RC3 .2330 FAU .09127
 FDE-1.1348 FRA-1.0705 FC3-1.1484 BSP 1366
 BOE .4558 BRA .8402 BC3 .2342 FSP -545

MID-COURSE EXECUTION ACCURACY

SGT 541.4 SGR 542.3 SG3 189.1
 RRT -.3976 RRF -.6617 RTF .5167
 SGB 766.3 R23 .1307 R13 -.7051
 SG1 640.6 SG2 420.5 THA 134.88

ORBIT DETERMINATION ACCURACY

ST 264.5 SR 244.3 SS 366.5
 CRT .5564 CRS -.7829 CST -.9478
 LSA 484.1 MSA 170.7 SSA 20.1
 EL1 318.0 EL2 168.8 ALF 40.94

LAUNCH DATE MAR 13 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

DISTANCE 215.852

RL 148.70 LAL .00 LOL 172.24 VL 29.608 GAL -14.91 AZL 90.87 MCA 98.77 SMA 146.11 ECC .25786 INC .8671 V1 29.964
 RP 108.77 LAP -.86 LOP 271.01 VP 39.140 GAP -2.04 AZP 89.87 TAL 251.28 TAP 350.05 RCA 108.44 APO 183.79 V2 34.839
 RC 76.053 GL -3.02 GP 27.49 ZAL 170.04 ZAP 72.21 ETS 352.52 ZAE 154.09 ETE 89.12 ZAC 105.11 ETC 156.83 CLP -69.85

PLANETOCENTRIC CONIC

C3 67.390 VHL 8.209 OLA -2.09 RAL 2.79 RAD 6569.3 VEL 13.738 PTH 2.51 VHP 5.051 DPA 30.54 RAP 8.17 ECC 2.1091
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 26 58 2450.77 -24.51 57.02 244.47 104.64 1 7 49 1850.8 -22.26 49.07
 90.00 11 54 5 5224.03 26.43 234.94 246.23 79.46 13 21 9 4624.0 24.71 226.70
 100.00 1 47 20 2191.51 -25.90 37.54 244.06 105.47 2 23 52 1591.5 -23.52 29.55
 100.00 13 16 24 4958.53 27.84 215.11 245.93 78.66 14 39 2 4358.5 26.00 206.80
 110.00 2 53 21 1984.85 -29.64 20.59 242.79 107.86 3 26 26 1384.9 -26.92 12.46
 110.00 14 26 52 4737.95 31.66 197.39 244.95 76.39 15 45 50 4138.0 29.47 188.87

DIFFERENTIAL CORRECTIONS

TDE -.3500 TRA -.7691 TC3 -.0634 BAU .2359
 RDE -.3017 RRA .4472 RC3 .2540 FAU .09549
 FDE-1.2237 FRA-1.0999 FC3-1.2268 BSP 1589
 BOE .4622 BRA .8897 BC3 .2618 FSP -587

MID-COURSE EXECUTION ACCURACY

SGT 599.2 SGR 562.0 SG3 200.3
 RRT -.4742 RRF -.6907 RTF .5980
 SGB 821.5 R23 .1347 R13 -.7438
 SG1 706.1 SG2 419.9 THA 138.85

ORBIT DETERMINATION ACCURACY

ST 292.7 SR 230.8 SS 387.0
 CRT .5375 CRS -.7696 CST -.9478
 LSA 508.5 MSA 172.4 SSA 20.2
 EL1 330.5 EL2 172.4 ALF 32.99

LAUNCH DATE MAR 13 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

DISTANCE 222.288

RL 148.70 LAL .00 LOL 172.24 VL 29.580 GAL -14.74 AZL 91.06 MCA 101.93 SMA 145.84 ECC .25515 INC 1.0601 V1 29.964
 RP 108.80 LAP -1.04 LOP 274.17 VP 39.111 GAP -1.44 AZP 89.78 TAL 250.99 TAP 352.92 RCA 108.63 APO 183.05 V2 34.831
 RC 78.340 GL -3.73 GP 28.45 ZAL 169.66 ZAP 76.86 ETS 354.77 ZAE 152.83 ETE 96.55 ZAC 103.11 ETC 157.64 CLP -75.01

PLANETOCENTRIC CONIC

C3 66.030 VHL 8.126 OLA -2.68 RAL 3.22 RAD 6569.3 VEL 13.689 PTH 2.50 VHP 4.941 DPA 30.57 RAP 5.84 ECC 2.0867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 33 3 2427.57 -24.10 55.44 244.32 105.33 1 13 31 1827.6 -21.77 47.55
 90.00 11 51 24 5237.50 26.60 235.90 246.56 79.91 13 18 41 4637.5 24.93 227.62
 100.00 1 53 9 2169.20 -25.48 36.01 243.89 106.18 2 29 18 1569.2 -23.02 28.08
 100.00 13 13 59 4971.10 28.01 216.01 246.27 79.11 14 36 50 4371.1 26.22 207.67
 110.00 2 58 32 1964.52 -29.21 19.16 242.58 108.60 3 31 16 1364.5 -26.39 11.11
 110.00 14 25 5 4748.55 31.83 198.18 245.33 76.82 15 44 14 4148.5 29.69 189.62

DIFFERENTIAL CORRECTIONS

TDE -.3885 TRA -.8281 TC3 -.1075 BAU .2601
 RDE -.2755 RRA .4482 RC3 .2743 FAU .09887
 FDE-1.3044 FRA-1.1142 FC3-1.2963 BSP 1844
 BOE .4762 BRA .9416 BC3 .2946 FSP -625

MID-COURSE EXECUTION ACCURACY

SGT 668.8 SGR 580.1 SG3 209.9
 RRT -.5403 RRF -.7161 RTF .6645
 SGB 885.3 R23 .1385 R13 -.7762
 SG1 780.2 SG2 418.5 THA 142.39

ORBIT DETERMINATION ACCURACY

ST 325.3 SR 216.6 SS 406.3
 CRT .5179 CRS -.7540 CST -.9486
 LSA 536.2 MSA 172.9 SSA 20.2
 EL1 351.1 EL2 171.7 ALF 25.55

LAUNCH DATE MAR 13 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

DISTANCE 228.678

RL 148.70 LAL .00 LOL 172.24 VL 29.544 GAL -14.57 AZL 91.26 MCA 105.09 SMA 145.50 ECC .25252 INC 1.2576 V1 29.964
 RP 108.82 LAP -1.21 LOP 277.34 VP 39.077 GAP -.87 AZP 89.67 TAL 250.59 TAP 355.68 RCA 108.76 APO 182.24 V2 34.824
 RC 80.651 GL -4.47 GP 29.35 ZAL 169.18 ZAP 81.42 ETS 357.07 ZAE 151.27 ETE 103.38 ZAC 101.17 ETC 158.46 CLP -80.14

PLANETOCENTRIC CONIC

C3 64.713 VHL 8.044 OLA -3.27 RAL 3.71 RAD 6569.2 VEL 13.641 PTH 2.49 VHP 4.863 DPA 30.55 RAP 3.59 ECC 2.0650
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 39 26 2404.29 -23.67 53.87 244.25 106.01 1 19 31 1804.3 -21.25 46.03
 90.00 11 48 56 5251.11 26.76 236.86 246.97 80.37 13 16 27 4651.1 25.15 228.56
 100.00 1 59 15 2146.82 -25.05 34.49 243.81 106.87 2 35 2 1546.8 -22.50 26.62
 100.00 13 11 48 4983.82 28.17 216.92 246.69 79.56 14 34 52 4383.8 26.44 208.55
 110.00 3 4 0 1944.14 -28.76 17.75 242.45 109.33 3 36 24 1344.1 -25.85 9.77
 110.00 14 23 33 4759.26 31.99 198.97 245.78 77.26 15 42 52 4159.3 29.91 190.38

DIFFERENTIAL CORRECTIONS

TDE -.4328 TRA -.8903 TC3 -.1560 BAU .2871
 RDE -.2496 RRA .4447 RC3 .2929 FAU .10107
 FDE-1.3707 FRA-1.1088 FC3-1.3522 BSP 2117
 BOE .4996 BRA .9952 BC3 .3319 FSP -649

MID-COURSE EXECUTION ACCURACY

SGT 749.3 SGR 595.3 SG3 217.1
 RRT -.5941 RRF -.7373 RTF .7169
 SGB 957.0 R23 .1430 R13 -.8021
 SG1 861.6 SG2 416.4 THA 145.67

ORBIT DETERMINATION ACCURACY

ST 362.5 SR 202.2 SS 423.1
 CRT .4990 CRS -.7373 CST -.9499
 LSA 566.7 MSA 172.2 SSA 20.3
 EL1 379.9 EL2 167.2 ALF 19.47

LAUNCH DATE MAR 13 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

DISTANCE 235.024

RL 148.70 LAL .00 LOL 172.24 VL 29.501 GAL -14.41 AZL 91.46 MCA 108.26 SMA 145.10 ECC .24995 INC 1.4609 V1 29.964
 RP 108.84 LAP -1.39 LOP 280.50 VP 39.039 GAP -.33 AZP 89.54 TAL 250.08 TAP 358.33 RCA 108.83 APO 181.37 V2 34.816
 RC 82.981 GL -5.25 GP 30.19 ZAL 168.60 ZAP 85.85 ETS 359.43 ZAE 149.48 ETE 109.51 ZAC 99.34 ETC 159.28 CLP -85.20

PLANETOCENTRIC CONIC

C3 63.433 VHL 7.965 DLA -3.87 RAL 4.27 RAD 6569.2 VEL 13.594 PTH 2.48 VHP 4.814 OPA 30.52 RAP 1.45 ECC 2.0440
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 46 10 2380.72 -23.22 52.29 244.26 106.67 1 25 51 1780.7 -20.72 44.51
 90.00 11 46 39 5265.08 26.91 237.85 247.45 80.84 13 14 25 4665.1 25.37 229.52
 100.00 2 5 42 2124.16 -24.59 32.96 243.80 107.55 2 41 6 1524.2 -21.96 25.15
 100.00 13 9 49 4996.86 28.33 217.86 247.18 80.03 14 33 6 4396.9 26.66 209.45
 110.00 3 9 47 1923.53 -28.29 16.33 242.40 110.04 3 41 51 1323.5 -25.30 8.43
 110.00 14 22 13 4770.26 32.15 199.78 246.31 77.72 15 41 43 4170.3 30.13 191.16

DIFFERENTIAL CORRECTIONS

TOE -.4822 TRA -.9538 TC3 -.2079 BAU .3169
 RDE -.2229 RRA .4380 RC3 .3105 FAU .10242
 FDE -1.4293 FRA -1.0916 FC3 -1.3978 BSP 2421
 BOE .5313 BRA 1.0496 BC3 .3737 FSP -674

MID-COURSE EXECUTION ACCURACY

SGT 838.5 SGR 608.3 SG3 222.5
 RRT -.6379 RRF -.7562 RTF .7573
 SGB 1035.9 R23 .1478 R13 -.8231
 SG1 949.8 SG2 413.6 THA 148.55

ORBIT DETERMINATION ACCURACY

ST 403.8 SR 186.8 SS 439.7
 CRT .4763 CRS -.7165 CST -.9515
 LSA 601.5 MSA 170.4 SSA 20.3
 EL1 415.2 EL2 159.7 ALF 14.65

LAUNCH DATE MAR 13 1969

FLIGHT TIME 80.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 241.325

RL 148.70 LAL .00 LOL 172.24 VL 29.453 GAL -14.24 AZL 91.67 MCA 111.42 SMA 144.65 ECC .24744 INC 1.6718 V1 29.964
 RP 108.86 LAP -1.56 LOP 283.67 VP 38.997 GAP .17 AZP 89.39 TAL 249.46 TAP .88 RCA 108.86 APO 180.45 V2 34.810
 RC 85.328 GL -6.06 GP 30.99 ZAL 167.93 ZAP 90.11 ETS 1.82 ZAE 147.52 ETE 114.91 ZAC 97.63 ETC 160.06 CLP -90.13

PLANETOCENTRIC CONIC

C3 62.187 VHL 7.886 DLA -4.49 RAL 4.89 RAD 6569.2 VEL 13.548 PTH 2.48 VHP 4.792 OPA 30.49 RAP 359.46 ECC 2.0234
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 53 18 2356.61 -22.74 50.68 244.34 107.34 1 32 35 1756.6 -20.16 42.97
 90.00 11 44 30 5279.59 27.06 238.89 248.01 81.34 13 12 30 4679.6 25.59 230.53
 100.00 2 12 32 2101.01 -24.11 31.41 243.87 108.23 2 47 33 1501.0 -21.39 23.67
 100.00 13 7 57 5010.43 28.48 218.84 247.75 80.52 14 31 28 4410.4 26.88 210.40
 110.00 3 15 57 1902.49 -27.79 14.90 242.42 110.76 3 47 39 1302.5 -24.71 7.08
 110.00 14 21 2 4781.72 32.32 200.64 246.92 78.20 15 40 44 4181.7 30.36 191.97

DIFFERENTIAL CORRECTIONS

TOE -.5372 TRA -1.0181 TC3 -.2628 BAU .3480
 RDE -.1971 RRA .4265 RC3 .3258 FAU .10253
 FDE -1.4712 FRA -1.0555 FC3 -1.4273 BSP 2731
 BOE .5722 BRA 1.1038 BC3 .4185 FSP -683

MID-COURSE EXECUTION ACCURACY

SGT 935.2 SGR 617.4 SG3 225.3
 RRT -.6715 RRF -.7718 RTF .7876
 SGB 1120.6 R23 .1542 R13 -.8390
 SG1 1042.8 SG2 410.3 THA 151.24

ORBIT DETERMINATION ACCURACY

ST 449.5 SR 171.6 SS 453.7
 CRT .4531 CRS -.6943 CST -.9532
 LSA 639.3 MSA 167.7 SSA 20.2
 EL1 457.0 EL2 150.5 ALF 11.02

LAUNCH DATE MAR 13 1969

FLIGHT TIME 82.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 247.586

RL 148.70 LAL .00 LOL 172.24 VL 29.400 GAL -14.07 AZL 91.89 MCA 114.57 SMA 144.16 ECC .24497 INC 1.8918 V1 29.964
 RP 108.88 LAP -1.72 LOP 286.83 VP 38.951 GAP .66 AZP 89.21 TAL 248.76 TAP 3.34 RCA 108.84 APO 179.48 V2 34.804
 RC 87.691 GL -6.93 GP 31.74 ZAL 167.16 ZAP 94.17 ETS 4.25 ZAE 145.46 ETE 119.62 ZAC 96.07 ETC 160.79 CLP -94.91

PLANETOCENTRIC CONIC

C3 60.975 VHL 7.809 DLA -5.13 RAL 5.58 RAD 6569.1 VEL 13.503 PTH 2.47 VHP 4.795 OPA 30.50 RAP 357.64 ECC 2.0035
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 0 53 2331.72 -22.23 49.04 244.50 108.01 1 39 45 1731.7 -19.56 41.38
 90.00 11 42 25 5294.94 27.22 239.99 248.64 81.87 13 10 39 4694.9 25.81 231.60
 100.00 2 19 49 2077.12 -23.59 29.83 244.01 108.91 2 54 26 1477.1 -20.79 22.15
 100.00 13 6 10 5024.77 28.64 219.87 248.40 81.05 14 29 55 4424.8 27.10 211.41
 110.00 3 22 31 1880.81 -27.26 13.44 242.51 111.48 3 53 52 1280.8 -24.09 5.70
 110.00 14 19 57 4793.85 32.48 201.55 247.60 78.72 15 39 51 4193.8 30.59 192.84

DIFFERENTIAL CORRECTIONS

TOE -.5972 TRA -1.0817 TC3 -.3198 BAU .3804
 RDE -.1704 RRA .4122 RC3 .3398 FAU .10185
 FDE -1.5058 FRA -1.0110 FC3 -1.4461 BSP 3067
 BOE .6211 BRA 1.1576 BC3 .4666 FSP -695

MID-COURSE EXECUTION ACCURACY

SGT 1037.5 SGR 624.1 SG3 226.6
 RRT -.6984 RRF -.7862 RTF .8107
 SGB 1210.8 R23 .1616 R13 -.8518
 SG1 1140.5 SG2 406.4 THA 153.61

ORBIT DETERMINATION ACCURACY

ST 499.4 SR 155.5 SS 467.8
 CRT .4221 CRS -.6646 CST -.9550
 LSA 682.0 MSA 164.0 SSA 20.2
 EL1 504.1 EL2 139.7 ALF 8.12

LAUNCH DATE MAR 13 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 253.808

RL 148.70 LAL .00 LOL 172.24 VL 29.342 GAL -13.89 AZL 92.12 MCA 117.73 SMA 143.63 ECC .24255 INC 2.1233 V1 29.964
 RP 108.90 LAP -1.88 LOP 289.99 VP 38.903 GAP 1.11 AZP 89.01 TAL 247.98 TAP 5.71 RCA 108.79 APO 178.47 V2 34.799
 RC 90.065 GL -7.84 GP 32.48 ZAL 166.30 ZAP 98.00 ETS 6.72 ZAE 143.33 ETE 123.68 ZAC 94.69 ETC 161.44 CLP -99.49

PLANETOCENTRIC CONIC

C3 59.797 VHL 7.733 DLA -5.80 RAL 6.34 RAD 6569.1 VEL 13.459 PTH 2.46 VHP 4.820 OPA 30.57 RAP 356.00 ECC 1.9841
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 9 2 2305.77 -21.67 47.34 244.73 108.68 1 47 27 1705.8 -18.92 39.75
 90.00 11 40 19 5311.40 27.37 241.17 249.37 82.44 13 8 50 4711.4 26.04 232.75
 100.00 2 27 37 2052.23 -23.03 28.19 244.22 109.60 3 1 50 1452.2 -20.15 20.58
 100.00 13 4 24 5040.17 28.80 220.99 249.14 81.61 14 28 24 4440.2 27.34 212.49
 110.00 3 29 35 1858.27 -26.69 11.93 242.68 112.20 4 0 33 1258.3 -23.44 4.28
 110.00 14 18 56 4806.90 32.65 202.53 248.38 79.27 15 39 3 4206.9 30.83 193.78

DIFFERENTIAL CORRECTIONS

TOE -.6627 TRA -1.1438 TC3 -.3785 BAU .4132
 RDE -.1438 RRA .3941 RC3 .3521 FAU .10028
 FDE -1.5292 FRA -.9551 FC3 -1.4518 BSP 3416
 BOE .6781 BRA 1.2098 BC3 .5169 FSP -699

MID-COURSE EXECUTION ACCURACY

SGT 1144.3 SGR 627.7 SG3 225.8
 RRT -.7190 RRF -.7989 RTF .8280
 SGB 1305.2 R23 .1704 R13 -.8616
 SG1 1241.7 SG2 402.1 THA 155.77

ORBIT DETERMINATION ACCURACY

ST 553.8 SR 139.2 SS 480.9
 CRT .3830 CRS -.6272 CST -.9569
 LSA 729.1 MSA 159.6 SSA 20.1
 EL1 556.5 EL2 128.0 ALF 5.81

LAUNCH DATE MAR 13 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 259.992

RL 148.70 LAL .00 LOL 172.24 VL 29.280 GAL -13.72 AZL 92.37 HCA 120.89 SMA 143.07 ECC .24017 INC 2.3684 V1 29.964
 RP 108.91 LAP -2.03 LOP 293.15 VP 38.852 GAP 1.55 AZP 88.78 TAL 247.11 TAP 8.00 RCA 108.71 APO 177.43 V2 34.795
 RC 92.449 GL -8.83 GP 33.22 ZAL 165.35 ZAP 101.57 ETS 9.23 ZAE 141.18 ETE 127.15 ZAC 93.48 ETC 162.01 CLP-103.87

PLANETOCENTRIC CONIC

C3 58.658 VHL 7.659 DLA -6.52 RAL 7.17 RAD 6569.1 VEL 13.417 PTH 2.45 VHP 4.866 DPA 30.73 RAP 354.55 ECC 1.9654
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 17 48 2278.45 -21.07 45.57 245.04 109.37 1 55 47 1678.5 -18.23 38.04
 90.00 11 38 9 5329.34 27.52 242.46 250.19 83.07 13 6 58 4729.3 26.28 234.01
 100.00 2 36 3 2026.05 -22.42 26.48 244.51 110.30 3 9 49 1426.1 -19.46 18.94
 100.00 13 2 35 5056.97 28.96 222.21 249.98 82.24 14 26 52 4457.0 27.58 213.68
 110.00 3 37 11 1834.62 -26.07 10.37 242.93 112.94 4 7 46 1234.6 -22.73 2.80
 110.00 14 17 56 4821.17 32.83 203.60 249.27 79.89 15 38 17 4221.2 31.09 194.81

DIFFERENTIAL CORRECTIONS

TOE -.7334 TRA-1.2032 TC3 -.4379 BAU .4456
 RDE -.1177 RRA .3720 RC3 .3622 FAU .09776
 FDE-1.5398 FRA -.8871 FC3-1.4428 BSP 3755
 BOE .7428 BRA 1.2594 BC3 .5683 FSP -690

MID-COURSE EXECUTION ACCURACY

SGT 1253.7 SGR 627.7 SG3 222.9
 RRT -.7340 RRF -.8099 RTF .8407
 SGB 1402.0 R23 .1811 R13 -.8687
 SG1 1344.5 SG2 397.5 THA 157.78

ORBIT DETERMINATION ACCURACY

ST 612.6 SR 122.9 SS 492.3
 CRT .3341 CRS -.5804 CST -.9587
 LSA 780.0 MSA 154.7 SSA 19.9
 EL1 614.0 EL2 115.5 ALF 3.97

LAUNCH DATE MAR 13 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 9 1969

HELIOCENTRIC CONIC

DISTANCE 266.141

RL 148.70 LAL .00 LOL 172.24 VL 29.214 GAL -13.53 AZL 92.63 HCA 124.04 SMA 142.48 ECC .23784 INC 2.6302 V1 29.964
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.799 GAP 1.96 AZP 88.53 TAL 246.17 TAP 10.22 RCA 108.59 APO 176.36 V2 34.791
 RC 94.840 GL -9.89 GP 33.99 ZAL 164.30 ZAP 104.87 ETS 11.79 ZAE 139.03 ETE 130.10 ZAC 92.44 ETC 162.49 CLP-108.03

PLANETOCENTRIC CONIC

C3 57.566 VHL 7.587 DLA -7.29 RAL 8.07 RAD 6569.0 VEL 13.376 PTH 2.44 VHP 4.931 DPA 31.00 RAP 353.27 ECC 1.9474
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 27 20 2249.41 -20.40 43.70 245.44 110.08 2 4 50 1649.4 -17.48 36.24
 90.00 11 35 49 5349.19 27.68 243.89 251.12 83.77 13 4 58 4749.2 26.53 235.41
 100.00 2 45 11 1998.27 -21.76 24.69 244.90 111.02 3 18 29 1398.3 -18.71 17.22
 100.00 13 0 39 5075.56 29.12 223.57 250.93 82.94 14 25 15 4475.6 27.84 215.01
 110.00 3 45 27 1809.58 -25.39 8.74 243.27 113.69 4 15 36 1209.6 -21.97 1.26
 110.00 14 16 53 4837.01 33.01 204.80 250.27 80.58 15 37 30 4237.0 31.36 195.97

DIFFERENTIAL CORRECTIONS

TDE -.8100 TRA-1.2593 TC3 -.4980 BAU .4780
 RDE -.0905 RRA .3474 RC3 .3712 FAU .09474
 FDE-1.5458 FRA -.8155 FC3-1.4247 BSP 4116
 BOE .8151 BRA 1.3064 BC3 .6211 FSP -682

MID-COURSE EXECUTION ACCURACY

SGT 1365.4 SGR 626.0 SG3 219.0
 RRT -.7457 RRF -.8208 RTF .8505
 SGB 1502.1 R23 .1931 R13 -.8744
 SG1 1449.8 SG2 392.8 THA 159.56

ORBIT DETERMINATION ACCURACY

ST 676.3 SR 106.1 SS 504.3
 CRT .2593 CRS -.5091 CST -.9606
 LSA 836.8 MSA 149.4 SSA 19.7
 EL1 676.9 EL2 102.4 ALF 2.39

LAUNCH DATE MAR 13 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 11 1969

HELIOCENTRIC CONIC

DISTANCE 272.258

RL 148.70 LAL .00 LOL 172.24 VL 29.146 GAL -13.35 AZL 92.91 HCA 127.20 SMA 141.87 ECC .23555 INC 2.9123 V1 29.964
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.745 GAP 2.35 AZP 88.24 TAL 245.17 TAP 12.37 RCA 108.45 APO 175.28 V2 34.788
 RC 97.236 GL -11.05 GP 34.81 ZAL 163.13 ZAP 107.88 ETS 14.40 ZAE 136.90 ETE 132.58 ZAC 91.57 ETC 162.87 CLP-111.96

PLANETOCENTRIC CONIC

C3 56.534 VHL 7.519 DLA -8.12 RAL 9.05 RAD 6569.0 VEL 13.338 PTH 2.44 VHP 5.015 DPA 31.41 RAP 352.15 ECC 1.9304
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 37 46 2218.24 -19.66 41.71 245.94 110.80 2 14 44 1618.2 -16.65 34.33
 90.00 11 33 14 5371.47 27.83 245.50 252.18 84.57 13 2 45 4771.5 26.79 236.99
 100.00 2 55 11 1968.49 -21.02 22.78 245.38 111.76 3 27 59 1368.5 -17.88 15.40
 100.00 12 58 30 5096.45 29.29 225.10 252.01 83.73 14 23 26 4496.5 28.11 216.50
 110.00 3 54 28 1782.86 -24.65 7.02 243.69 114.47 4 24 11 1182.9 -21.14 359.63
 110.00 14 15 42 4854.86 33.20 206.16 251.41 81.36 15 36 37 4254.9 31.65 197.28

DIFFERENTIAL CORRECTIONS

TDE -.8932 TRA-1.3115 TC3 -.5582 BAU .5099
 RDE -.0626 RRA .3200 RC3 .3789 FAU .09120
 FDE-1.5458 FRA -.7399 FC3-1.3966 BSP 4486
 BOE .8954 BRA 1.3500 BC3 .6746 FSP -671

MID-COURSE EXECUTION ACCURACY

SGT 1478.9 SGR 622.5 SG3 213.8
 RRT -.7543 RRF -.8314 RTF .8580
 SGB 1604.5 R23 .2068 R13 -.8787
 SG1 1556.9 SG2 388.2 THA 161.17

ORBIT DETERMINATION ACCURACY

ST 745.4 SR 89.6 SS 516.4
 CRT .1448 CRS -.3980 CST -.9624
 LSA 899.6 MSA 144.0 SSA 19.4
 EL1 745.5 EL2 88.7 ALF 1.01

LAUNCH DATE MAR 13 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 13 1969

HELIOCENTRIC CONIC

DISTANCE 278.343

RL 148.70 LAL .00 LOL 172.24 VL 29.074 GAL -13.15 AZL 93.22 HCA 130.35 SMA 141.24 ECC .23331 INC 3.2188 V1 29.964
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.689 GAP 2.72 AZP 87.91 TAL 244.10 TAP 14.45 RCA 108.29 APO 174.19 V2 34.786
 RC 99.636 GL -12.31 GP 35.71 ZAL 161.85 ZAP 110.60 ETS 17.09 ZAE 134.79 ETE 134.66 ZAC 90.86 ETC 163.15 CLP-115.68

PLANETOCENTRIC CONIC

C3 55.575 VHL 7.455 DLA -9.04 RAL 10.13 RAD 6569.0 VEL 13.302 PTH 2.43 VHP 5.117 DPA 31.98 RAP 351.17 ECC 1.9146
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 49 16 2184.46 -18.83 39.58 246.55 111.55 2 25 41 1584.5 -15.73 32.27
 90.00 11 30 17 5396.83 27.98 247.34 253.38 85.48 13 0 14 4796.8 27.06 238.80
 100.00 3 6 12 1936.28 -20.19 20.75 245.97 112.52 3 38 28 1336.3 -16.96 13.44
 100.00 12 56 2 5120.25 29.45 226.85 253.24 84.63 14 21 22 4520.2 28.40 218.21
 110.00 4 4 24 1754.07 -23.83 5.19 244.23 115.27 4 33 38 1154.1 -20.22 357.90
 110.00 14 14 20 4875.23 33.40 207.72 252.71 82.26 15 35 35 4275.2 31.97 198.78

DIFFERENTIAL CORRECTIONS

TDE -.9830 TRA-1.3579 TC3 -.6172 BAU .5403
 RDE -.0346 RRA .2889 RC3 .3844 FAU .08704
 FDE-1.5382 FRA -.6577 FC3-1.3560 BSP 4834
 BOE .9836 BRA 1.3883 BC3 .7271 FSP -649

MID-COURSE EXECUTION ACCURACY

SGT 1592.0 SGR 616.3 SG3 207.1
 RRT -.7593 RRF -.8410 RTF .8633
 SGB 1707.1 R23 .2223 R13 -.8815
 SG1 1663.4 SG2 383.8 THA 162.67

ORBIT DETERMINATION ACCURACY

ST 819.8 SR 74.5 SS 527.7
 CRT -.0291 CRS -.2251 CST -.9642
 LSA 967.8 MSA 138.7 SSA 18.9
 EL1 819.8 EL2 74.5 ALF 179.85

LAUNCH DATE MAR 13 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 15 1969

HELIOCENTRIC CONIC

DISTANCE 284.398

RL 148.70 LAL .00 LOL 172.24 VL 29.001 GAL -12.96 AZL 93.56 MCA 133.50 SMA 140.60 ECC .23112 INC 3.5554 V1 29.964
 RP 108.94 LAP -2.58 LOP 305.80 VP 38.633 GAP 3.07 AZP 87.55 TAL 242.98 TAP 16.48 RCA 108.10 APO 173.10 V2 34.784
 RC 102.038 GL -13.71 GP 36.72 ZAL 160.43 ZAP 113.02 ETS 19.89 ZAE 132.70 ETE 136.38 ZAC 90.27 ETC 163.34 CLP-119.20

PLANETOCENTRIC CONIC

C3 54.712 VHL 7.397 OLA -10.06 RAL 11.30 RAD 6569.0 VEL 13.269 PTH 2.42 VHP 5.239 OPA 32.72 RAP 350.29 ECC 1.9004
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 2 6 2147.49 -17.89 37.28 247.31 112.33 2 37 53 1547.5 -14.70 30.05
 90.00 11 26 49 5426.10 28.12 249.47 254.77 86.54 12 57 15 4826.1 27.35 240.89
 100.00 3 18 28 1901.11 -19.26 18.55 246.70 113.31 3 50 9 1301.1 -15.94 11.33
 100.00 12 53 8 5147.71 29.61 228.88 254.65 85.69 14 18 55 4547.7 28.70 220.20
 110.00 4 15 24 1722.79 -22.90 3.23 244.90 116.10 4 44 7 1122.8 -19.21 356.04
 110.00 14 12 40 4898.79 33.60 209.53 254.20 83.31 15 34 19 4298.8 32.31 200.53

DIFFERENTIAL CORRECTIONS

TDE-1.0820 TRA-1.3990 TC3 -.6754 BAU .5702
 RDE -.0047 RRA .2556 RC3 .3892 FAU .08268
 FDE-1.5300 FRA -.5768 FC3-1.3083 BSP 5205
 BDE 1.0820 BRA 1.4221 BC3 .7795 FSP -630

MID-COURSE EXECUTION ACCURACY

SGT 1706.4 SGR 609.8 SG3 200.0
 RRT -.7625 RRF -.8511 RTF .8676
 SGB 1812.1 R23 .2392 R13 -.8839
 SG1 1771.8 SG2 380.0 THA 164.00

ORBIT DETERMINATION ACCURACY

ST 901.3 SR 62.8 SS 540.6
 CRT -.3071 CRS .0655 CST -.9661
 LSA 1044.2 MSA 133.8 SSA 18.3
 EL1 901.5 EL2 59.8 ALF 178.77

LAUNCH DATE MAR 13 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 290.426

RL 148.70 LAL .00 LOL 172.24 VL 28.925 GAL -12.75 AZL 93.93 MCA 136.65 SMA 139.95 ECC .22899 INC 3.9292 V1 29.964
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.575 GAP 3.41 AZP 87.14 TAL 241.80 TAP 18.45 RCA 107.90 APO 172.00 V2 34.783
 RC 104.441 GL -15.26 GP 37.88 ZAL 158.85 ZAP 115.11 ETS 22.80 ZAE 130.61 ETE 137.79 ZAC 89.79 ETC 163.45 CLP-122.52

PLANETOCENTRIC CONIC

C3 53.976 VHL 7.347 OLA -11.19 RAL 12.58 RAD 6569.0 VEL 13.241 PTH 2.42 VHP 5.382 OPA 33.66 RAP 349.47 ECC 1.8883
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 46 31 2106.58 -16.81 34.76 248.23 113.13 2 51 38 1506.6 -13.54 27.61
 90.00 11 22 39 5460.32 28.24 251.97 256.36 87.78 12 53 39 4860.3 27.63 243.35
 100.00 3 32 14 1862.31 -18.20 16.16 247.60 114.13 4 3 16 1262.3 -14.78 9.03
 100.00 12 49 37 5179.82 29.75 231.26 256.28 86.93 14 15 57 4579.8 29.01 222.53
 110.00 4 27 44 1688.51 -21.86 1.11 245.73 116.96 4 55 52 1088.5 -18.07 354.03
 110.00 14 10 36 4926.38 33.80 211.66 255.93 84.56 15 32 43 4326.4 32.68 202.60

DIFFERENTIAL CORRECTIONS

TDE-1.1917 TRA-1.4334 TC3 -.7317 BAU .5991
 RDE .0268 RRA .2193 RC3 .3924 FAU .07804
 FDE-1.5203 FRA -.4957 FC3-1.2516 BSP 5583
 BDE 1.1920 BRA 1.4501 BC3 .8303 FSP -608

MID-COURSE EXECUTION ACCURACY

SGT 1821.6 SGR 602.8 SG3 192.1
 RRT -.7632 RRF -.8610 RTF .8711
 SGB 1918.7 R23 .2572 R13 -.8860
 SG1 1881.3 SG2 377.1 THA 165.22

ORBIT DETERMINATION ACCURACY

ST 990.8 SR 58.9 SS 554.6
 CRT -.6483 CRS .4538 CST -.9681
 LSA 1129.4 MSA 129.5 SSA 17.4
 EL1 991.5 EL2 44.8 ALF 177.79

LAUNCH DATE MAR 13 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 296.428

RL 148.70 LAL .00 LOL 172.24 VL 28.848 GAL -12.54 AZL 94.35 MCA 139.80 SMA 139.30 ECC .22692 INC 4.3491 V1 29.964
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.517 GAP 3.73 AZP 86.68 TAL 240.57 TAP 20.37 RCA 107.69 APO 170.90 V2 34.783
 RC 106.844 GL -16.99 GP 39.21 ZAL 157.08 ZAP 116.86 ETS 25.85 ZAE 128.49 ETE 138.93 ZAC 89.38 ETC 163.48 CLP-125.68

PLANETOCENTRIC CONIC

C3 53.408 VHL 7.308 OLA -12.48 RAL 14.00 RAD 6568.9 VEL 13.220 PTH 2.41 VHP 5.548 OPA 34.81 RAP 348.67 ECC 1.8790
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 32 57 2060.79 -15.56 31.97 249.38 113.96 3 7 17 1460.8 -12.20 24.91
 90.00 11 17 31 5500.87 28.31 254.93 258.21 89.27 12 49 12 4900.9 27.91 246.29
 100.00 3 47 53 1819.04 -16.97 13.53 248.71 114.98 4 18 12 1219.0 -13.46 6.50
 100.00 12 45 17 5217.85 29.85 234.08 258.17 88.41 14 12 14 4617.9 29.31 225.32
 110.00 4 41 40 1650.60 -20.67 358.81 246.77 117.85 5 9 10 1050.6 -16.78 351.84
 110.00 14 7 59 4959.06 33.98 214.19 257.94 86.05 15 30 38 4359.1 33.06 205.07

DIFFERENTIAL CORRECTIONS

TDE-1.3134 TRA-1.4588 TC3 -.7840 BAU .6261
 RDE .0589 RRA .1785 RC3 .3930 FAU .07299
 FDE-1.5061 FRA -.4115 FC3-1.1831 BSP 5935
 BDE 1.3147 BRA 1.4697 BC3 .8769 FSP -578

MID-COURSE EXECUTION ACCURACY

SGT 1935.3 SGR 593.8 SG3 183.2
 RRT -.7602 RRF -.8700 RTF .8737
 SGB 2024.3 R23 .2766 R13 -.8873
 SG1 1989.2 SG2 375.4 THA 166.38

ORBIT DETERMINATION ACCURACY

ST 1088.5 SR 65.4 SS 568.6
 CRT -.8882 CRS .7691 CST -.9701
 LSA 1223.2 MSA 126.2 SSA 16.3
 EL1 1090.1 EL2 30.0 ALF 176.94

LAUNCH DATE MAR 13 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 302.406

RL 148.70 LAL .00 LOL 172.24 VL 28.769 GAL -12.32 AZL 94.83 MCA 142.95 SMA 138.64 ECC .22490 INC 4.8275 V1 29.964
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.459 GAP 4.03 AZP 86.14 TAL 239.29 TAP 22.24 RCA 107.46 APO 169.82 V2 34.784
 RC 109.246 GL -18.95 GP 40.76 ZAL 155.10 ZAP 118.26 ETS 29.08 ZAE 126.33 ETE 139.85 ZAC 89.01 ETC 163.45 CLP-128.69

PLANETOCENTRIC CONIC

C3 53.069 VHL 7.285 OLA -13.94 RAL 15.57 RAD 6568.9 VEL 13.207 PTH 2.41 VHP 5.744 OPA 36.20 RAP 347.82 ECC 1.8734
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 51 55 2008.89 -14.11 28.86 250.80 114.81 3 25 24 1408.9 -10.64 21.89
 90.00 11 11 6 5549.61 28.30 258.50 260.37 91.06 12 43 36 4949.6 28.15 249.83
 100.00 4 5 53 1770.24 -15.55 10.61 250.10 115.86 4 35 23 1170.2 -11.94 3.67
 100.00 12 39 49 5263.50 29.89 237.47 260.39 90.20 14 7 33 4663.5 29.60 228.68
 110.00 4 57 36 1608.26 -19.31 356.29 248.06 118.77 5 24 24 1008.3 -15.32 349.44
 110.00 14 4 36 4998.23 34.12 217.24 260.31 87.85 15 27 54 4398.2 33.45 208.07

DIFFERENTIAL CORRECTIONS

TDE-1.4529 TRA-1.4757 TC3 -.8321 BAU .6524
 RDE .0935 RRA .1343 RC3 .3915 FAU .06783
 FDE-1.4945 FRA -.3312 FC3-1.1066 BSP 6314
 BDE 1.4559 BRA 1.4818 BC3 .9196 FSP -552

MID-COURSE EXECUTION ACCURACY

SGT 2050.8 SGR 585.4 SG3 173.9
 RRT -.7545 RRF -.8786 RTF .8765
 SGB 2132.7 R23 .2959 R13 -.8890
 SG1 2099.4 SG2 375.3 THA 167.44

ORBIT DETERMINATION ACCURACY

ST 1198.3 SR 82.3 SS 585.2
 CRT -.9777 CRS .9267 CST -.9723
 LSA 1330.2 MSA 124.0 SSA 15.0
 EL1 1201.0 EL2 17.2 ALF 176.16

LAUNCH DATE MAR 13 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 308.360

RL 148.70 LAL .00 LOL 172.24 VL 28.690 GAL -12.10 AZL 95.38 HCA 146.09 SMA 137.98 ECC .22295 INC 5.3811 V1 29.964
 RP 108.94 LAP -3.00 LOP 318.45 VP 38.401 GAP 4.32 AZP 85.53 TAL 237.97 TAP 24.06 RCA 107.22 APO 168.74 V2 34.785
 RC 111.645 GL -21.17 GP 42.56 ZAL 152.85 ZAP 119.27 ETS 32.51 ZAE 124.08 ETE 140.58 ZAC 88.64 ETC 163.37 CLP-131.59

PLANETOCENTRIC CONIC

C3 53.047 VHL 7.283 DLA -15.62 RAL 17.34 RAD 6568.9 VEL 13.206 PTH 2.41 VHP 5.977 DPA 37.85 RAP 346.86 ECC 1.8730
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 14 13 1949.14 -12.37 25.33 252.61 115.68 3 46 42 1349.1 -8.81 18.46
 90.00 11 2 53 5609.16 28.15 262.85 262.91 93.23 12 36 23 5009.2 28.30 254.18
 100.00 4 26 57 1714.42 -13.86 7.32 251.86 116.75 4 55 32 1114.4 -10.16 .49
 100.00 12 32 50 5319.11 29.81 241.60 263.00 92.37 14 1 29 4719.1 29.82 232.80
 110.00 5 16 5 1560.53 -17.72 353.50 249.71 119.72 5 42 6 960.5 -13.63 346.77
 110.00 14 0 11 5045.77 34.18 220.95 263.11 90.04 15 24 17 4445.8 33.81 211.73

DIFFERENTIAL CORRECTIONS

TDE-1.6140 TRA-1.4809 TC3 -.8729 BAU .6770
 RDE .1297 RRA .0849 RC3 .3865 FAU .06244
 FDE-1.4823 FRA -.2519 FC3-1.0191 BSP 6692
 BOE 1.6192 BRA 1.4833 BC3 .9546 FSP -522

MID-COURSE EXECUTION ACCURACY

SGT 2166.1 SGR 576.3 SG3 164.1
 RRT -.7443 RRF -.8651 RTF .8794
 SGB 2241.4 R23 .3148 R13 -.8909
 SG1 2209.4 SG2 377.3 THA 168.46

ORBIT DETERMINATION ACCURACY

ST 1321.1 SR 105.5 SS 603.5
 CRT -.9884 CRS .9816 CST -.9747
 LSA 1450.9 MSA 123.3 SSA 13.5
 EL1 1325.2 EL2 16.0 ALF 175.49

LAUNCH DATE MAR 13 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC

DISTANCE 314.292

RL 148.70 LAL .00 LOL 172.24 VL 28.609 GAL -11.87 AZL 96.03 HCA 149.23 SMA 137.32 ECC .22107 INC 6.0333 V1 29.964
 RP 108.93 LAP -3.08 LOP 321.61 VP 38.343 GAP 4.59 AZP 84.81 TAL 236.60 TAP 25.84 RCA 106.96 APO 167.68 V2 34.787
 RC 114.042 GL -23.73 GP 44.68 ZAL 150.28 ZAP 119.84 ETS 36.18 ZAE 121.69 ETE 141.19 ZAC 88.20 ETC 163.27 CLP-134.42

PLANETOCENTRIC CONIC

C3 53.476 VHL 7.313 DLA -17.56 RAL 19.34 RAD 6568.9 VEL 13.223 PTH 2.42 VHP 6.258 DPA 39.77 RAP 345.67 ECC 1.8801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 59 1878.96 -10.27 21.25 254.95 116.54 4 12 18 1279.0 -6.62 14.47
 90.00 10 52 5 5683.33 27.74 268.23 265.90 95.90 12 26 48 5083.3 28.27 259.61
 100.00 4 52 6 1649.50 -11.84 3.56 254.13 117.65 5 19 35 1049.5 -8.05 356.83
 100.00 12 23 39 5388.03 29.50 246.70 266.09 95.04 13 53 27 4788.0 29.89 237.92
 110.00 5 37 53 1506.04 -15.85 350.38 251.82 120.69 6 2 59 906.0 -11.66 343.78
 110.00 13 54 21 5104.24 34.09 225.52 266.46 92.74 15 19 26 4504.2 34.09 216.27

DIFFERENTIAL CORRECTIONS

TDE-1.8034 TRA-1.4706 TC3 -.9023 BAU .6987
 RDE .1656 RRA .0278 RC3 .3756 FAU .05670
 FDE-1.4673 FRA -.1721 FC3 -.9180 BSP 7040
 BOE 1.8109 BRA 1.4708 BC3 .9773 FSP -486

MID-COURSE EXECUTION ACCURACY

SGT 2280.0 SGR 564.9 SG3 153.2
 RRT -.7267 RRF -.8884 RTF .8823
 SGB 2348.9 R23 .3329 R13 -.8929
 SG1 2317.7 SG2 381.8 THA 169.51

ORBIT DETERMINATION ACCURACY

ST 1459.3 SR 131.0 SS 622.4
 CRT -.9757 CRS .9957 CST -.9771
 LSA 1587.0 MSA 124.1 SSA 11.8
 EL1 1464.8 EL2 28.6 ALF 174.99

LAUNCH DATE MAR 13 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC

DISTANCE 320.202

RL 148.70 LAL .00 LOL 172.24 VL 28.528 GAL -11.63 AZL 96.82 HCA 152.37 SMA 136.67 ECC .21926 INC 6.8179 V1 29.964
 RP 108.93 LAP -3.16 LOP 324.78 VP 38.285 GAP 4.86 AZP 83.95 TAL 235.20 TAP 27.57 RCA 106.70 APO 166.63 V2 34.790
 RC 116.435 GL -26.68 GP 47.18 ZAL 147.32 ZAP 119.94 ETS 40.13 ZAE 119.10 ETE 141.73 ZAC 87.63 ETC 163.21 CLP-137.25

PLANETOCENTRIC CONIC

C3 54.571 VHL 7.387 DLA -19.82 RAL 21.64 RAD 6569.0 VEL 13.264 PTH 2.42 VHP 6.606 DPA 41.99 RAP 344.12 ECC 1.8981
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 14 7 1794.10 -7.65 16.39 258.04 117.35 4 44 1 1194.1 -3.92 9.69
 90.00 10 37 19 5778.21 26.89 275.05 269.40 99.21 12 13 37 5178.2 27.89 266.52
 100.00 5 22 53 1572.19 -9.36 359.16 257.12 118.52 5 49 5 972.2 -5.48 352.52
 100.00 12 11 14 5475.35 28.81 253.10 269.74 98.34 13 42 29 4875.3 29.66 244.40
 110.00 6 4 6 1443.01 -13.63 346.84 254.60 121.66 6 28 9 843.0 -9.34 340.37
 110.00 13 46 30 5177.30 33.70 231.19 270.46 96.08 15 12 47 4577.3 34.18 221.98

DIFFERENTIAL CORRECTIONS

TDE-2.0342 TRA-1.4430 TC3 -.9173 BAU .7185
 RDE .2017 RRA -.0372 RC3 .3583 FAU .05083
 FDE-1.4548 FRA -.0974 FC3 -.8064 BSP 7424
 BOE 2.0442 BRA 1.4435 BC3 .9848 FSP -452

MID-COURSE EXECUTION ACCURACY

SGT 2396.1 SGR 552.8 SG3 141.9
 RRT -.7004 RRF -.8860 RTF .8867
 SGB 2459.0 R23 .3476 R13 -.8963
 SG1 2428.0 SG2 389.4 THA 170.58

ORBIT DETERMINATION ACCURACY

ST 1618.1 SR 157.5 SS 644.5
 CRT -.9581 CRS .9944 CST -.9798
 LSA 1744.3 MSA 126.3 SSA 10.0
 EL1 1625.2 EL2 44.9 ALF 174.67

LAUNCH DATE MAR 13 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC

DISTANCE 326.090

RL 148.70 LAL .00 LOL 172.24 VL 28.447 GAL -11.38 AZL 97.79 HCA 155.51 SMA 136.02 ECC .21751 INC 7.7862 V1 29.964
 RP 108.91 LAP -3.22 LOP 327.95 VP 38.227 GAP 5.11 AZP 82.91 TAL 233.75 TAP 29.26 RCA 106.43 APO 165.60 V2 34.794
 RC 118.823 GL -30.12 GP 50.11 ZAL 143.88 ZAP 119.50 ETS 44.42 ZAE 116.22 ETE 142.33 ZAC 86.85 ETC 163.27 CLP-140.16

PLANETOCENTRIC CONIC

C3 56.686 VHL 7.529 DLA -22.44 RAL 24.34 RAD 6569.0 VEL 13.343 PTH 2.44 VHP 7.050 DPA 44.50 RAP 342.01 ECC 1.9329
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 7 1686.20 -4.23 10.30 262.28 118.03 5 25 13 1086.2 -.45 3.66
 90.00 10 15 49 616.80 25.20 306.02 273.43 103.36 10 26 6 16.8 26.79 297.71
 100.00 6 2 3 1476.63 -6.21 353.81 261.19 119.30 6 26 39 876.6 -2.26 347.25
 100.00 11 53 34 5589.64 27.40 261.30 273.99 102.43 13 26 44 4989.6 28.84 252.79
 110.00 6 36 28 1368.70 -10.94 342.77 258.33 122.59 6 59 17 768.7 -6.56 336.41
 110.00 13 35 38 5270.33 32.81 238.30 275.24 100.19 15 3 28 4670.3 33.86 229.22

DIFFERENTIAL CORRECTIONS

TDE-2.3224 TRA-1.3905 TC3 -.9106 BAU .7343
 RDE .2324 RRA -.1144 RC3 .3310 FAU .04472
 FDE-1.4419 FRA -.0260 FC3 -.6829 BSP 7813
 BOE 2.3340 BRA 1.3952 BC3 .9689 FSP -415

MID-COURSE EXECUTION ACCURACY

SGT 2512.9 SGR 537.2 SG3 129.9
 RRT -.6580 RRF -.8721 RTF .8927
 SGB 2569.7 R23 .3577 R13 -.9011
 SG1 2538.5 SG2 400.4 THA 171.79

ORBIT DETERMINATION ACCURACY

ST 1800.9 SR 179.7 SS 668.6
 CRT -.9377 CRS .9851 CST -.9827
 LSA 1925.0 MSA 129.8 SSA 8.2
 EL1 1808.8 EL2 62.2 ALF 174.65

LAUNCH DATE MAR 13 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC

DISTANCE 331.955

RL 148.70 LAL .00 LOL 172.24 VL 28.365 GAL -11.13 AZL 99.02 MCA 158.63 SMA 135.37 ECC .21582 INC 9.0189 V1 29.964
 RP 108.90 LAP -3.27 LOP 331.12 VP 38.170 GAP 5.34 AZP 81.59 TAL 232.28 TAP 30.91 RCA 106.16 APO 164.59 V2 34.798
 RC 121.206 GL -34.14 GP 53.58 ZAL 139.84 ZAP 118.44 ETS 49.17 ZAE 112.96 ETE 143.16 ZAC 85.75 ETC 163.62 CLP-143.33

PLANETOCENTRIC CONIC

C3 60.449 VHL 7.775 CLA -25.50 RAL 27.56 RAD 6569.1 VEL 13.484 PTH 2.46 VHP 7.635 DPA 47.28 RAP 339.05 ECC 1.9948
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 58 48 1531.72 .74 1.67 268.47 118.31 6 24 20 931.7 4.52 355.03
 90.00 9 39 52 802.69 21.70 318.51 277.68 108.66 9 53 15 202.7 24.04 310.62
 100.00 6 55 23 1349.04 -1.92 346.77 266.99 119.84 7 17 52 749.0 2.06 340.25
 100.00 11 25 59 5748.65 24.59 272.27 278.71 107.55 13 1 48 5148.6 26.76 264.15
 110.00 7 17 53 1278.40 -7.59 337.92 263.49 123.43 7 39 12 678.4 -3.14 331.66
 110.00 13 19 57 5392.05 30.98 247.31 280.83 105.23 14 49 49 4792.0 32.75 238.54

DIFFERENTIAL CORRECTIONS

TOE-2.6924 TRA-1.2999 TC3 -.8721 BAU .7426
 RDE .2458 RRA -.2093 RC3 .2896 FAU .03825
 FDE-1.4266 FRA .0436 FC3 -.5478 BSP 8150
 BDE 2.7036 BRA 1.3166 BC3 .9189 FSP -371

MID-COURSE EXECUTION ACCURACY

SGT 2627.2 SGR 514.6 SG3 116.9
 RRT -.5834 RRF -.8329 RTF .9008
 SGB 2677.1 R23 .3618 R13 -.9076
 SG1 2644.7 SG2 415.2 THA 173.32

ORBIT DETERMINATION ACCURACY

ST 2009.9 SR 188.7 SS 693.7
 CRT -.9058 CRS .9639 CST -.9857
 LSA 2130.4 MSA 134.4 SSA 6.6
 EL1 2017.2 EL2 79.7 ALF 175.13

LAUNCH DATE MAR 13 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 337.793

RL 148.70 LAL .00 LOL 172.24 VL 28.284 GAL -10.86 AZL 100.65 MCA 161.75 SMA 134.74 ECC .21420 INC10.6514 V1 29.964
 RP 108.89 LAP -3.32 LOP 334.28 VP 38.114 GAP 5.57 AZP 79.87 TAL 230.76 TAP 32.51 RCA 105.88 APO 163.60 V2 34.803
 RC 123.581 GL -38.83 GP 57.66 ZAL 135.07 ZAP 116.68 ETS 54.61 ZAE 109.18 ETE 144.55 ZAC 84.19 ETC 164.57 CLP-147.08

PLANETOCENTRIC CONIC

C3 67.058 VHL 8.189 CLA -29.02 RAL 31.52 RAD 6569.3 VEL 13.726 PTH 2.51 VHP 8.444 DPA 50.24 RAP 334.77 ECC 2.1036
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.38 7 10 11 1369.96 11.68 355.61 279.62 116.75 7 33 1 770.0 15.18 348.63
 96.62 9 0 6 1014.45 11.70 329.55 279.63 116.75 9 17 0 414.5 15.19 322.57
 100.00 8 25 50 1124.56 5.67 334.43 276.38 119.40 8 44 35 524.6 9.54 327.78
 100.00 10 27 8 735.09 17.84 311.94 282.67 114.39 10 39 23 135.1 20.99 304.55
 110.00 8 14 10 1161.27 -3.15 331.76 270.94 124.06 8 33 31 561.3 1.34 325.55
 110.00 12 55 17 5559.18 27.40 258.99 287.02 111.29 14 27 56 4959.2 30.03 250.80

DIFFERENTIAL CORRECTIONS

TOE-3.1910 TRA-1.1550 TC3 -.7938 BAU .7414
 RDE .2160 RRA -.3262 RC3 .2320 FAU .03167
 FDE-1.4148 FRA .1068 FC3 -.4088 BSP 8530
 BDE 3.1983 BRA 1.2001 BC3 .8270 FSP -329

MID-COURSE EXECUTION ACCURACY

SGT 2743.9 SGR 485.1 SG3 103.5
 RRT -.4434 RRF -.7335 RTF .9130
 SGB 2786.4 R23 .3550 R13 -.9176
 SG1 2752.5 SG2 433.5 THA 175.40

ORBIT DETERMINATION ACCURACY

ST 2250.1 SR 170.6 SS 722.6
 CRT -.8236 CRS .8987 CST -.9889
 LSA 2365.3 MSA 139.4 SSA 5.1
 EL1 2254.5 EL2 96.5 ALF 176.42

LAUNCH DATE MAR 13 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 343.599

RL 148.70 LAL .00 LOL 172.24 VL 28.202 GAL -10.59 AZL 102.93 MCA 164.85 SMA 134.11 ECC .21261 INC12.9274 V1 29.964
 RP 108.87 LAP -3.35 LOP 337.45 VP 38.059 GAP 5.78 AZP 77.51 TAL 229.20 TAP 34.05 RCA 105.60 APO 162.62 V2 34.808
 RC 125.948 GL -44.24 GP 62.42 ZAL 129.46 ZAP 114.15 ETS 61.32 ZAE 104.69 ETE 147.20 ZAC 81.94 ETC 166.79 CLP-152.11

PLANETOCENTRIC CONIC

C3 79.027 VHL 8.890 CLA -32.94 RAL 36.53 RAD 6569.5 VEL 14.155 PTH 2.58 VHP 9.624 DPA 53.17 RAP 328.50 ECC 2.3006
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.42 6 10 27 1660.88 11.78 17.48 287.74 120.99 6 38 8 1060.9 15.80 10.78
 107.58 10 39 47 800.48 11.80 313.57 287.75 120.98 10 53 7 200.5 15.82 306.87
 72.42 6 10 27 1660.88 11.78 17.48 287.74 120.99 6 38 8 1060.9 15.80 10.78
 107.58 10 39 47 800.48 11.80 313.57 287.75 120.98 10 53 7 200.5 15.82 306.87
 110.00 9 45 9 968.62 4.21 321.70 282.88 123.95 10 1 17 368.6 8.64 315.41
 110.00 12 4 15 5828.78 19.59 276.01 292.38 118.59 13 41 24 5228.8 23.25 268.79

DIFFERENTIAL CORRECTIONS

TOE-3.8866 TRA -.9133 TC3 -.6637 BAU .7204
 RDE .0641 RRA -.4716 RC3 .1564 FAU .02493
 FDE-1.4099 FRA .1668 FC3 -.2731 BSP 8904
 BDE 3.8871 BRA 1.0279 BC3 .6819 FSP -285

MID-COURSE EXECUTION ACCURACY

SGT 2856.4 SGR 458.5 SG3 89.7
 RRT -.1355 RRF -.4600 RTF .9304
 SGB 2893.0 R23 .3337 R13 -.9316
 SG1 2857.1 SG2 454.2 THA 178.72

ORBIT DETERMINATION ACCURACY

ST 2514.1 SR 116.5 SS 756.4
 CRT -.2759 CRS .3944 CST -.9921
 LSA 2624.0 MSA 144.1 SSA 3.8
 EL1 2514.3 EL2 112.0 ALF 179.27

LAUNCH DATE MAR 13 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 349.359

RL 148.70 LAL .00 LOL 172.24 VL 28.121 GAL -10.30 AZL 106.33 MCA 167.91 SMA 133.49 ECC .21103 INC16.3330 V1 29.964
 RP 108.85 LAP -3.38 LOP 340.63 VP 38.004 GAP 5.97 AZP 74.01 TAL 227.61 TAP 35.52 RCA 105.32 APO 161.66 V2 34.815
 RC 128.306 GL -50.27 GP 67.86 ZAL 122.90 ZAP 110.78 ETS 70.76 ZAE 99.19 ETE 152.74 ZAC 78.69 ETC 171.91 CLP-160.29

PLANETOCENTRIC CONIC

C3 102.354 VHL 10.117 CLA -37.01 RAL 43.04 RAD 6570.0 VEL 14.956 PTH 2.70 VHP 11.475 DPA 55.51 RAP 319.35 ECC 2.6845
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 65.11 5 54 0 1846.22 10.81 31.44 298.35 125.61 6 24 46 1246.2 15.39 25.12
 114.89 11 48 8 729.54 10.83 307.34 298.36 125.61 12 0 18 129.5 15.40 301.02
 65.11 5 54 0 1846.22 10.81 31.44 298.35 125.61 6 24 46 1246.2 15.39 25.12
 114.89 11 48 8 729.54 10.83 307.34 298.36 125.61 12 0 18 129.5 15.40 301.02
 65.11 5 54 0 1846.22 10.81 31.44 298.35 125.61 6 24 46 1246.2 15.39 25.12
 114.89 11 48 8 729.54 10.83 307.34 298.36 125.61 12 0 18 129.5 15.40 301.02

DIFFERENTIAL CORRECTIONS

TOE-4.8739 TRA -.4802 TC3 -.4747 BAU .6564
 RDE -.4572 RRA -.6341 RC3 .0690 FAU .01801
 FDE-1.4253 FRA .2312 FC3 -.1523 BSP 9185
 BDE 4.8953 BRA .7955 BC3 .4797 FSP -239

MID-COURSE EXECUTION ACCURACY

SGT 2942.4 SGR 537.4 SG3 76.0
 RRT .4640 RRF .1950 RTF .9538
 SGB 2991.1 R23 -.2927 R13 .9498
 SG1 2953.2 SG2 474.3 THA 4.97

ORBIT DETERMINATION ACCURACY

ST 2762.3 SR 292.0 SS 801.8
 CRT .9030 CRS -.8567 CST -.9952
 LSA 2887.3 MSA 147.5 SSA 2.9
 EL1 2774.9 EL2 124.9 ALF 5.46

LAUNCH DATE MAR 13 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 355.038

RL 148.70 LAL .00 LOL 172.24 VL 28.040 GAL -9.99 AZL 111.97 MCA 170.91 SMA 132.88 ECC .20936 INC21.9737 V1 29.964
 RP 108.83 LAP -3.39 LOP 343.80 VP 37.951 GAP 6.14 AZP 68.28 TAL 225.95 TAP 36.86 RCA 105.06 APO 160.70 V2 34.821
 RC 130.653 GL -56.34 GP 73.40 ZAL 115.43 ZAP 106.58 ETS 87.24 ZAE 92.16 ETE 165.64 ZAC 73.83 ETC 184.43 CLP-177.34

PLANETOCENTRIC CONIC

C3 154.120 VHL 12.415 CLA -40.43 RAL 51.60 RAD 6570.7 VEL 16.597 PTH 2.88 VHP 14.672 DPA 56.13 RAP 306.61 ECC 3.5364
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.85 6 2 40 1999.53 8.21 42.13 311.84 129.73 6 35 59 1399.5 13.26 36.23
 120.15 12 47 48 736.19 8.22 305.85 311.86 129.73 13 0 5 136.2 13.27 299.95
 59.85 6 2 40 1999.53 8.21 42.13 311.84 129.73 6 35 59 1399.5 13.26 36.23
 120.15 12 47 48 736.19 8.22 305.85 311.86 129.73 13 0 5 136.2 13.27 299.95
 59.85 6 2 40 1999.53 8.21 42.13 311.84 129.73 6 35 59 1399.5 13.26 36.23
 120.15 12 47 48 736.19 8.22 305.85 311.86 129.73 13 0 5 136.2 13.27 299.95

DIFFERENTIAL CORRECTIONS

TDE-6.0707 TRA .3565 TC3 -.2402 BAU .4949
 RDE-2.2306 RRA -.6534 RC3 .0014 FAU .01067
 FDE-1.5020 FRA .3195 FC3 -.0599 BSP 9464
 BOE 6.4675 BRA .7443 BC3 .2402 FSP -199

MID-COURSE EXECUTION ACCURACY

SGT 2872.7 SGR 1103.1 SG3 63.5
 RRT .8826 RRF .7849 RTF .9817
 SGB 3077.2 R23 -.2284 R13 .9704
 SG1 3037.8 SG2 490.4 THA 19.24

ORBIT DETERMINATION ACCURACY

ST 2802.6 SR 1036.3 SS 881.8
 CRT .9905 CRS -.9803 CST -.9982
 LSA 3111.9 MSA 149.0 SSA 2.2
 EL1 2985.0 EL2 134.1 ALF 20.16

LAUNCH DATE MAR 13 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 360.536

RL 148.70 LAL .00 LOL 172.24 VL 27.959 GAL -9.63 AZL 122.85 MCA 173.73 SMA 132.29 ECC .20733 INC32.8525 V1 29.964
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.898 GAP 6.25 AZP 57.30 TAL 224.19 TAP 37.93 RCA 104.86 APO 159.71 V2 34.829
 RC 132.989 GL -60.29 GP 75.44 ZAL 107.40 ZAP 101.72 ETS 120.42 ZAE 82.27 ETE 195.60 ZAC 65.87 ETC 214.21 CLP 143.87

PLANETOCENTRIC CONIC

C3 296.382 VHL 17.216 CLA -41.08 RAL 62.37 RAD 6571.7 VEL 20.437 PTH 3.16 VHP 21.007 DPA 52.59 RAP 291.21 ECC 5.8777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.89 6 41 22 2108.73 3.99 47.88 327.76 130.92 7 16 31 1508.7 9.20 42.18
 121.11 13 34 59 821.76 4.01 309.59 327.77 130.92 13 48 41 221.8 9.22 303.89
 58.89 6 41 22 2108.73 3.99 47.88 327.76 130.92 7 16 31 1508.7 9.20 42.18
 121.11 13 34 59 821.76 4.01 309.59 327.77 130.92 13 48 41 221.8 9.22 303.89
 58.89 6 41 22 2108.73 3.99 47.88 327.76 130.92 7 16 31 1508.7 9.20 42.18
 121.11 13 34 59 821.76 4.01 309.59 327.77 130.92 13 48 41 221.8 9.22 303.89

DIFFERENTIAL CORRECTIONS

TDE-5.1029 TRA 1.7440 TC3 -.0356 BAU .2165
 RDE-7.4611 RRA .5058 RC3 .0414 FAU .00042
 FDE-1.7301 FRA .5109 FC3 -.0012 BSP 9580
 BOE 9.0392 BRA 1.8159 BC3 .0546 FSP -167

MID-COURSE EXECUTION ACCURACY

SGT 1868.7 SGR 2497.2 SG3 53.4
 RRT .9368 RRF .9580 RTF .9969
 SGB 3119.0 R23 -.1613 R13 .9862
 SG1 3073.4 SG2 531.4 THA 53.71

ORBIT DETERMINATION ACCURACY

ST 1713.9 SR 2484.0 SS 1052.3
 CRT .9941 CRS -.9959 CST -.9998
 LSA 3192.0 MSA 162.2 SSA 1.2
 EL1 3014.1 EL2 152.7 ALF 55.45

LAUNCH DATE MAR 13 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 365.471

RL 148.70 LAL .00 LOL 172.24 VL 27.879 GAL -9.16 AZL 148.31 MCA 176.02 SMA 131.70 ECC .20394 INC58.3111 V1 29.964
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.847 GAP 6.20 AZP 31.75 TAL 222.15 TAP 38.17 RCA 104.84 APO 158.56 V2 34.837
 RC 135.313 GL -55.23 GP 64.09 ZAL 99.91 ZAP 96.86 ETS 158.66 ZAE 65.61 ETE 230.12 ZAC 50.41 ETC 249.61 CLP 105.86

PLANETOCENTRIC CONIC

C3 812.863 VHL 28.511 CLA -33.27 RAL 73.04 RAD 6572.8 VEL 30.564 PTH 3.46 VHP 35.484 DPA 39.64 RAP 277.25 ECC14.3777
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.76 8 31 56 1993.57 .15 35.68 342.80 123.27 9 5 10 1393.6 4.53 29.40
 108.24 13 9 34 1107.53 .17 329.79 342.81 123.27 13 28 2 507.5 4.54 323.51
 71.76 8 31 56 1993.57 .15 35.68 342.80 123.27 9 5 10 1393.6 4.53 29.40
 108.24 13 9 34 1107.53 .17 329.79 342.81 123.27 13 28 2 507.5 4.54 323.51
 110.00 12 20 33 1257.98 -6.82 336.84 338.19 123.58 12 41 31 658.0 -2.36 330.60
 110.00 14 20 8 891.12 7.14 317.61 347.41 123.52 14 34 59 291.1 11.50 311.23

DIFFERENTIAL CORRECTIONS

TDE 1.5022 TRA 1.9162 TC3 -.0325 BAU 1.8218
 RD-12.5243 RRA 4.6944 RC3 .1645 FAU-.02611
 FDE-2.2504 FRA 1.0887 FC3 .0278 BSP 8977
 BOE12.6141 BRA 5.0704 BC3 .1676 FSP -147

MID-COURSE EXECUTION ACCURACY

SGT 581.0 SGR 2913.3 SG3 47.2
 RRT -.2446 RRF .9946 RTF -.1431
 SGB 2970.7 R23 -.1130 R13 .9936
 SG1 2916.9 SG2 562.7 THA 92.90

ORBIT DETERMINATION ACCURACY

ST 332.0 SR 2539.7 SS 1407.3
 CRT -.8457 CRS -.9993 CST .8247
 LSA 2916.6 MSA 184.9 SSA .4
 EL1 2555.3 EL2 176.1 ALF 96.34

LAUNCH DATE MAR 13 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 375.682

RL 148.70 LAL .00 LOL 172.24 VL 27.799 GAL -9.78 AZL 17.80 MCA 183.54 SMA 131.12 ECC .21524 INC72.1976 V1 29.964
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.796 GAP 7.65 AZP 162.17 TAL 222.34 TAP 45.88 RCA 102.90 APO 159.35 V2 34.846
 RC 137.625 GL 49.60 GP -55.91 ZAL 98.72 ZAP 96.91 ETS 184.45 ZAE 62.20 ETE 115.22 ZAC 70.67 ETC 94.73 CLP 102.40

PLANETOCENTRIC CONIC

C31173.174 VHL 34.252 CLA 69.87 RAL 46.87 RAD 6573.1 VEL 35.979 PTH 3.53 VHP 43.158 DPA -80.33 RAP 272.66 ECC20.3075
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 23.01 15 50 51 5087.91 .82 247.11 317.18 20.13 17 15 39 4487.9 -6.69 244.77
 156.99 2 21 52 3335.48 .83 97.21 317.16 20.13 3 17 27 2735.5 -6.68 94.87
 23.01 15 50 51 5087.91 .82 247.11 317.18 20.13 17 15 39 4487.9 -6.69 244.77
 156.99 2 21 52 3335.48 .83 97.21 317.16 20.13 3 17 27 2735.5 -6.68 94.87
 23.01 15 50 51 5087.91 .82 247.11 317.18 20.13 17 15 39 4487.9 -6.69 244.77
 156.99 2 21 52 3335.48 .83 97.21 317.16 20.13 3 17 27 2735.5 -6.68 94.87

DIFFERENTIAL CORRECTIONS

TDE-3.3259 TRA 1.1489 TC3 -.0793 BAU 3.0146
 RD-14.6940 RRA .4077 RC3 -.1751 FAU-.04374
 FDE 2.9264 FRA -.0399 FC3 .0323 BSP 8542
 BOE15.0657 BRA 1.2191 BC3 .1922 FSP -147

MID-COURSE EXECUTION ACCURACY

SGT 957.4 SGR 2742.2 SG3 46.4
 RRT .8112 RRF -.9989 RTF -.7837
 SGB 2904.5 R23 -.1008 R13 -.9948
 SG1 2854.3 SG2 537.8 THA 73.59

ORBIT DETERMINATION ACCURACY

ST 581.3 SR 2459.0 SS 1825.7
 CRT .9641 CRS .9999 CST .9608
 LSA 3113.4 MSA 155.2 SSA .7
 EL1 2522.3 EL2 150.4 ALF 77.11

LAUNCH DATE MAR 13 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 380.193

RL 148.70 LAL .00 LOL 172.24 VL 27.721 GAL -9.21 AZL 51.84 HCA 185.41 SMA 130.56 ECC .21075 INC38.156H V1 29.964
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.747 GAP 7.47 AZP 128.03 TAL 220.18 TAP 45.59 RCA 103.04 APO 158.07 V2 34.855
 RC 139.923 GL 59.99 GP -72.04 ZAL 104.54 ZAP 101.94 ETS 212.86 ZAE 82.75 ETE 140.75 ZAC 90.91 ETC 123.75 CLP 132.13

PLANETOCENTRIC CONIC

C3 381.120 VHL 19.522 DLA 72.08 RAL 3.27 RAD 6572.0 VEL 22.415 PTH 3.25 VHP 24.559 DPA -77.16 RAP 51.85 ECC 7.2723
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 20.46 12 51 31 5019.77 -4.00 247.15 271.98 17.97 14 15 11 4419.8 -11.61 245.06
 159.54 23 29 24 3254.34 -4.00 94.60 271.96 17.97 24 23 39 2654.3 -11.60 92.51
 20.46 12 51 31 5019.77 -4.00 247.15 271.98 17.97 14 15 11 4419.8 -11.61 245.06
 159.54 23 29 24 3254.34 -4.00 94.60 271.96 17.97 24 23 39 2654.3 -11.60 92.51
 20.46 12 51 31 5019.77 -4.00 247.15 271.98 17.97 14 15 11 4419.8 -11.61 245.06
 159.54 23 29 24 3254.34 -4.00 94.60 271.96 17.97 24 23 39 2654.3 -11.60 92.51

DIFFERENTIAL CORRECTIONS

TDE 3.0450 TRA -3.572 TC3 -.0163 BAU .4844
 RDE -5.5833 RRA 2.9129 RC3 -.0937 FAU -.00194
 FDE 1.3323 FRA -.4909 FC3 .0044 BSP 10485
 BDE 6.3597 BRA 2.9348 BC3 .0951 FSP -172

MID-COURSE EXECUTION ACCURACY

SGT 958.5 SGR 3246.3 SG3 52.7
 RRT -.7673 RRF -.9833 RTF .8682
 SGB 3384.9 R23 -.1357 R13 -.9899
 SG1 3331.5 SG2 599.0 THA 103.20

ORBIT DETERMINATION ACCURACY

ST 899.5 SR 1838.5 SS 881.6
 CRT -.9370 CRS .9921 CST -.9734
 LSA 2209.7 MSA 289.0 SSA 1.5
 EL1 2026.8 EL2 285.0 ALF 115.16

LAUNCH DATE MAR 13 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 385.547

RL 148.70 LAL .00 LOL 172.24 VL 27.642 GAL -8.80 AZL 65.98 HCA 188.14 SMA 130.00 ECC .20883 INC24.0204 V1 29.964
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.698 GAP 7.54 AZP 113.81 TAL 218.30 TAP 46.44 RCA 102.86 APO 157.15 V2 34.865
 RC 142.207 GL 58.31 GP -71.52 ZAL 111.06 ZAP 108.21 ETS 260.54 ZAE 94.43 ETE 186.76 ZAC 101.75 ETC 171.06 CLP 170.26

PLANETOCENTRIC CONIC

C3 170.793 VHL 13.069 DLA 65.84 RAL 355.15 RAD 6570.8 VEL 17.091 PTH 2.93 VHP 16.394 DPA -64.50 RAP 53.35 ECC 3.8108
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 27.71 12 34 53 4891.49 -10.50 240.26 260.39 24.60 13 56 25 4291.5 -17.75 237.19
 152.29 22 41 13 3167.89 -10.49 95.45 260.37 24.60 23 34 1 2567.9 -17.74 92.38
 27.71 12 34 53 4891.49 -10.50 240.26 260.39 24.60 13 56 25 4291.5 -17.75 237.19
 152.29 22 41 13 3167.89 -10.49 95.45 260.37 24.60 23 34 1 2567.9 -17.74 92.38
 27.71 12 34 53 4891.49 -10.50 240.26 260.39 24.60 13 56 25 4291.5 -17.75 237.19
 152.29 22 41 13 3167.89 -10.49 95.45 260.37 24.60 23 34 1 2567.9 -17.74 92.38

DIFFERENTIAL CORRECTIONS

TDE 2.9865 TRA -2.6085 TC3 -.1694 BAU .3923
 RDE -.4830 RRA 1.6147 RC3 .0286 FAU .01301
 FDE .8423 FRA -.5641 FC3 -.0659 BSP 11053
 BDE 3.0253 BRA 3.0678 BC3 .1718 FSP -205

MID-COURSE EXECUTION ACCURACY

SGT 3117.3 SGR 1744.1 SG3 63.0
 RRT -.9460 RRF -.8938 RTF .9895
 SGB 3572.0 R23 -.2053 R13 -.9767
 SG1 3537.0 SG2 498.5 THA 151.49

ORBIT DETERMINATION ACCURACY

ST 1554.7 SR 560.4 SS 582.7
 CRT -.8174 CRS .7471 CST -.9936
 LSA 1722.3 MSA 323.0 SSA 1.9
 EL1 1623.5 EL2 309.2 ALF 162.95

LAUNCH DATE MAR 13 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 391.137

RL 148.70 LAL .00 LOL 172.24 VL 27.565 GAL -8.44 AZL 72.85 HCA 191.11 SMA 129.46 ECC .20772 INC17.1458 V1 29.964
 RP 108.66 LAP -3.26 LOP 357.61 VP 37.651 GAP 7.67 AZP 106.84 TAL 216.51 TAP 47.62 RCA 102.57 APO 156.36 V2 34.875
 RC 144.478 GL 53.41 GP -65.29 ZAL 116.79 ZAP 114.50 ETS 281.54 ZAE 102.33 ETE 205.63 ZAC 108.98 ETC 190.92 CLP -172.85

PLANETOCENTRIC CONIC

C3 100.230 VHL 10.011 DLA 60.02 RAL 357.63 RAD 6569.9 VEL 14.885 PTH 2.69 VHP 12.559 DPA -54.97 RAP 51.32 ECC 2.6495
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 34.59 13 1 14 4761.61 -15.94 231.97 258.16 31.31 14 20 36 4161.6 -22.72 227.89
 145.41 22 34 41 3093.26 -15.93 95.17 258.14 31.31 23 26 14 2493.3 -22.71 91.09
 34.59 13 1 14 4761.61 -15.94 231.97 258.16 31.31 14 20 36 4161.6 -22.72 227.89
 145.41 22 34 41 3093.26 -15.93 95.17 258.14 31.31 23 26 14 2493.3 -22.71 91.09
 34.59 13 1 14 4761.61 -15.94 231.97 258.16 31.31 14 20 36 4161.6 -22.72 227.89
 145.41 22 34 41 3093.26 -15.93 95.17 258.14 31.31 23 26 14 2493.3 -22.71 91.09

DIFFERENTIAL CORRECTIONS

TDE 2.1040 TRA -2.8631 TC3 -.5033 BAU .6744
 RDE .4063 RRA .5477 RC3 -.0019 FAU .02172
 FDE .7633 FRA -.5747 FC3 -.1876 BSP 11504
 BDE 2.1429 BRA 2.9151 BC3 .5033 FSP -248

MID-COURSE EXECUTION ACCURACY

SGT 3635.6 SGR 669.0 SG3 75.6
 RRT -.7289 RRF -.5294 RTF .9631
 SGB 3696.6 R23 -.2683 R13 -.9587
 SG1 3668.6 SG2 453.8 THA 172.24

ORBIT DETERMINATION ACCURACY

ST 1555.2 SR 299.1 SS 520.3
 CRT .2040 CRS -.4491 CST -.9663
 LSA 1636.4 MSA 317.6 SSA 2.6
 EL1 1556.4 EL2 292.6 ALF 2.33

LAUNCH DATE MAR 13 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 396.810

RL 148.70 LAL .00 LOL 172.24 VL 27.489 GAL -8.09 AZL 76.83 HCA 194.16 SMA 128.93 ECC .20699 INC13.1729 V1 29.964
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.605 GAP 7.82 AZP 102.79 TAL 214.74 TAP 48.90 RCA 102.25 APO 155.62 V2 34.885
 RC 146.734 GL 48.19 GP -58.66 ZAL 121.40 ZAP 120.38 ETS 289.59 ZAE 108.26 ETE 211.03 ZAC 114.58 ETC 197.27 CLP -166.49

PLANETOCENTRIC CONIC

C3 69.238 VHL 8.321 DLA 55.07 RAL 1.70 RAD 6569.3 VEL 13.805 PTH 2.52 VHP 10.498 DPA -47.05 RAP 49.74 ECC 2.1395
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 40.58 13 33 28 4646.40 -19.62 223.52 257.30 37.44 14 50 54 4046.4 -25.88 218.54
 139.42 22 34 58 3041.27 -19.60 94.46 257.28 37.44 23 25 40 2441.3 -25.87 89.48
 40.58 13 33 28 4646.40 -19.62 223.52 257.30 37.44 14 50 54 4046.4 -25.88 218.54
 139.42 22 34 58 3041.27 -19.60 94.46 257.28 37.44 23 25 40 2441.3 -25.87 89.48
 40.58 13 33 28 4646.40 -19.62 223.52 257.30 37.44 14 50 54 4046.4 -25.88 218.54
 139.42 22 34 58 3041.27 -19.60 94.46 257.28 37.44 23 25 40 2441.3 -25.87 89.48

DIFFERENTIAL CORRECTIONS

TDE 1.6604 TRA -2.7375 TC3 -.8732 BAU .8106
 RDE .5003 RRA .1968 RC3 -.0663 FAU .02821
 FDE .7376 FRA -.5583 FC3 -.3527 BSP 11833
 BDE 1.7341 BRA 2.7445 BC3 .8757 FSP -290

MID-COURSE EXECUTION ACCURACY

SGT 3775.4 SGR 432.3 SG3 88.7
 RRT -.1376 RRF .1824 RTF .9404
 SGB 3800.1 R23 -.3165 R13 -.9398
 SG1 3775.9 SG2 428.1 THA 179.09

ORBIT DETERMINATION ACCURACY

ST 1511.3 SR 351.8 SS 495.8
 CRT .6093 CRS -.8359 CST -.9445
 LSA 1599.0 MSA 311.1 SSA 3.5
 EL1 1527.0 EL2 276.1 ALF 8.35

LAUNCH DATE MAR 13 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 402.520

RL 148.70 LAL .00 LOL 172.24 VL 27.413 GAL -7.74 AZL 79.41 HCA 197.27 SMA 128.42 ECC .20651 INC10.5946 V1 29.964
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.560 GAP 7.98 AZP 100.13 TAL 212.96 TAP 50.23 RCA 101.90 APO 154.93 V2 34.897
 RC 148.977 GL 43.38 GP -52.62 ZAL 124.89 ZAP 125.68 ETS 293.66 ZAE 112.88 ETE 212.12 ZAC 119.23 ETC 199.32 CLP-163.93

PLANETOCENTRIC CONIC

C3 52.868 VHL 7.271 DLA 50.91 RAL 5.77 RAD 6568.9 VEL 13.200 PTH 2.41 VHP 9.286 DPA -40.23 RAP 48.84 ECC 1.8701
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 45.74 14 5 3 4546.81 -21.84 215.50 256.79 42.79 15 20 50 3946.8 -27.59 209.80
 134.26 22 35 51 3009.82 -21.82 93.86 256.77 42.78 23 26 1 2409.8 -27.58 88.15
 45.74 14 5 3 4546.81 -21.84 215.50 256.79 42.79 15 20 50 3946.8 -27.59 209.80
 134.26 22 35 51 3009.82 -21.82 93.86 256.77 42.78 23 26 1 2409.8 -27.58 88.15
 45.74 14 5 3 4546.81 -21.84 215.50 256.79 42.79 15 20 50 3946.8 -27.59 209.80
 134.26 22 35 51 3009.82 -21.82 93.86 256.77 42.78 23 26 1 2409.8 -27.58 88.15

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.3972 TRA-2.5888 TC3-1.2530 BAU .8898 SGT 3873.0 SGR 421.1 SG3 100.9 ST 1468.8 SR 372.5 SS 474.7
 RDE .4715 RRA .0705 RC3 -.1221 FAU .03323 RRT .2743 RRF .5900 RTF .9218 CRT .7013 CRS -.9173 CST -.9270
 FDE .7078 FRA -.5227 FC3 -.5441 BSP 12139 SGB 3895.8 R23 .3476 R13 .9229 LSA 1558.4 MSA 304.7 SSA 4.6
 BDE 1.4746 BRA 2.5897 BC3 1.2589 FSP -330 SG1 3874.7 SG2 404.8 THA 1.73 EL1 1492.6 EL2 261.3 ALF 10.41

LAUNCH DATE MAR 13 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

DISTANCE 408.246

RL 148.70 LAL .00 LOL 172.24 VL 27.338 GAL -7.39 AZL 81.22 HCA 200.40 SMA 127.91 ECC .20622 INC 8.7835 V1 29.964
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.516 GAP 8.15 AZP 98.24 TAL 211.19 TAP 51.58 RCA 101.53 APO 154.29 V2 34.908
 RC 151.204 GL 39.13 GP -47.34 ZAL 127.39 ZAP 130.37 ETS 296.23 ZAE 116.50 ETE 211.56 ZAC 123.25 ETC 199.73 CLP-162.94

PLANETOCENTRIC CONIC

C3 43.029 VHL 6.560 DLA 47.45 RAL 9.58 RAD 6568.6 VEL 12.822 PTH 2.33 VHP 8.533 DPA -34.32 RAP 48.53 ECC 1.7082
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 50.19 14 34 55 4459.91 -23.08 208.16 256.57 47.31 15 49 15 3859.9 -28.36 201.90
 129.81 22 36 21 2993.69 -23.06 93.59 256.56 47.30 23 26 15 2393.7 -28.34 87.33
 50.19 14 34 55 4459.91 -23.08 208.16 256.57 47.31 15 49 15 3859.9 -28.36 201.90
 129.81 22 36 21 2993.69 -23.06 93.59 256.56 47.30 23 26 15 2393.7 -28.34 87.33
 50.19 14 34 55 4459.91 -23.08 208.16 256.57 47.31 15 49 15 3859.9 -28.36 201.90
 129.81 22 36 21 2993.69 -23.06 93.59 256.56 47.30 23 26 15 2393.7 -28.34 87.33

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.2132 TRA-2.4519 TC3-1.6342 BAU .9447 SGT 3968.6 SGR 430.6 SG3 111.6 ST 1424.7 SR 373.1 SS 451.4
 RDE .4269 RRA .0202 RC3 -.1629 FAU .03698 RRT .4510 RRF .7378 RTF .9070 CRT .7303 CRS -.9470 CST -.9107
 FDE .6680 FRA -.4735 FC3 -.7441 BSP 12487 SGB 3991.9 R23 .3640 R13 .9088 LSA 1510.9 MSA 299.9 SSA 5.9
 BDE 1.2861 BRA 2.4520 BC3 1.6423 FSP -366 SG1 3973.4 SG2 383.8 THA 2.83 EL1 1451.3 EL2 250.2 ALF 11.16

LAUNCH DATE MAR 13 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

DISTANCE 413.980

RL 148.70 LAL .00 LOL 172.24 VL 27.264 GAL -7.03 AZL 82.56 HCA 203.54 SMA 127.41 ECC .20611 INC 7.4367 V1 29.964
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.474 GAP 8.32 AZP 96.82 TAL 209.40 TAP 52.94 RCA 101.15 APO 153.68 V2 34.920
 RC 153.416 GL 35.41 GP -42.79 ZAL 129.02 ZAP 134.49 ETS 298.09 ZAE 119.36 ETE 210.31 ZAC 126.83 ETC 199.44 CLP-162.72

PLANETOCENTRIC CONIC

C3 36.527 VHL 6.044 DLA 44.58 RAL 13.14 RAD 6568.4 VEL 12.566 PTH 2.28 VHP 8.048 DPA -29.17 RAP 48.67 ECC 1.6012
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 54.01 15 3 8 4382.70 -23.72 201.52 256.69 51.08 16 16 11 3782.7 -28.58 194.86
 125.99 22 36 34 2988.17 -23.70 93.67 256.67 51.07 23 26 22 2388.2 -28.56 87.01
 54.01 15 3 8 4382.70 -23.72 201.52 256.69 51.08 16 16 11 3782.7 -28.58 194.86
 125.99 22 36 34 2988.17 -23.70 93.67 256.67 51.07 23 26 22 2388.2 -28.56 87.01
 54.01 15 3 8 4382.70 -23.72 201.52 256.69 51.08 16 16 11 3782.7 -28.58 194.86
 125.99 22 36 34 2988.17 -23.70 93.67 256.67 51.07 23 26 22 2388.2 -28.56 87.01

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE 1.0767 TRA-2.3222 TC3-2.0104 BAU .9861 SGT 4061.9 SGR 433.3 SG3 120.3 ST 1380.9 SR 367.3 SS 426.6
 RDE .3874 RRA -.0011 RC3 -.1902 FAU .03959 RRT .5330 RRF .7927 RTF .8952 CRT .7409 CRS -.9626 CST -.8946
 FDE .6222 FRA -.4144 FC3 -.9383 BSP 12807 SGB 4085.0 R23 .3683 R13 .8971 LSA 1461.6 MSA 295.9 SSA 7.3
 BDE 1.1443 BRA 2.3222 BC3 2.0194 FSP -394 SG1 4068.6 SG2 366.0 THA 3.28 EL1 1408.3 EL2 241.9 ALF 11.49

LAUNCH DATE MAR 13 1969

FLIGHT TIME 140.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

DISTANCE 419.717

RL 148.70 LAL .00 LOL 172.24 VL 27.192 GAL -6.67 AZL 83.61 HCA 206.70 SMA 126.93 ECC .20618 INC 6.3912 V1 29.964
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.432 GAP 8.50 AZP 95.71 TAL 207.61 TAP 54.30 RCA 100.76 APO 153.10 V2 34.932
 RC 155.612 GL 32.15 GP -38.88 ZAL 129.91 ZAP 138.08 ETS 299.53 ZAE 121.63 ETE 208.80 ZAC 130.08 ETC 198.84 CLP-162.90

PLANETOCENTRIC CONIC

C3 31.911 VHL 5.649 DLA 42.19 RAL 16.54 RAD 6568.3 VEL 12.381 PTH 2.23 VHP 7.731 DPA -24.67 RAP 49.18 ECC 1.5252
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 57.32 15 29 56 4313.09 -24.00 195.53 257.12 54.20 16 41 49 3713.1 -28.50 188.57
 122.68 22 36 49 2989.61 -23.99 94.04 257.11 54.20 23 26 39 2389.6 -28.49 87.08
 57.32 15 29 56 4313.09 -24.00 195.53 257.12 54.20 16 41 49 3713.1 -28.50 188.57
 122.68 22 36 49 2989.61 -23.99 94.04 257.11 54.20 23 26 39 2389.6 -28.49 87.08
 57.32 15 29 56 4313.09 -24.00 195.53 257.12 54.20 16 41 49 3713.1 -28.50 188.57
 122.68 22 36 49 2989.61 -23.99 94.04 257.11 54.20 23 26 39 2389.6 -28.49 87.08

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .9703 TRA-2.1983 TC3-2.3840 BAU 1.0209 SGT 4156.7 SGR 431.0 SG3 127.3 ST 1337.9 SR 360.8 SS 400.4
 RDE .3556 RRA -.0111 RC3 -.2084 FAU .04131 RRT .5777 RRF .8106 RTF .8864 CRT .7451 CRS -.9725 CST -.8788
 FDE .5723 FRA -.3516 FC3 -1.1208 BSP 13158 SGB 4178.9 R23 .3612 R13 .8882 LSA 1412.5 MSA 291.9 SSA 8.9
 BDE 1.0334 BRA 2.1983 BC3 2.3931 FSP -419 SG1 4164.2 SG2 351.2 THA 3.45 EL1 1365.5 EL2 235.7 ALF 11.71

LAUNCH DATE MAR 13 1969

FLIGHT TIME 142.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

RL 148.70 LAL .00 LOL 172.24 VL 27.120 GAL -6.30 AZL 84.45 HCA 209.86 SMA 126.46 ECC .20647 INC 5.5521 V1 29.964
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.391 GAP 8.69 AZP 94.82 TAL 205.82 TAP 55.69 RCA 100.35 APO 152.57 V2 34.945
 RC 157.792 GL 29.26 GP -35.50 ZAL 130.22 ZAP 141.25 ETS 300.68 ZAE 123.42 ETE 207.19 ZAC 133.09 ETC 198.10 CLP-163.32

PLANETOCENTRIC CONIC

C3 28.473 VHL 5.336 DLA 40.17 RAL 19.81 RAD 6568.1 VEL 12.241 PTH 2.20 VHP 7.528 DPA -20.70 RAP 49.96 ECC 1.4686
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 60.23 15 55 44 4249.15 -24.07 190.07 257.86 56.82 17 6 33 3649.2 -28.26 182.89
 119.77 22 37 7 2996.38 -24.06 94.67 257.85 56.81 23 27 3 2396.4 -28.25 87.49
 60.23 15 55 44 4249.15 -24.07 190.07 257.86 56.82 17 6 33 3649.2 -28.26 182.89
 119.77 22 37 7 2996.38 -24.06 94.67 257.85 56.81 23 27 3 2396.4 -28.25 87.49
 60.23 15 55 44 4249.15 -24.07 190.07 257.86 56.82 17 6 33 3649.2 -28.26 182.89
 119.77 22 37 7 2996.38 -24.06 94.67 257.85 56.81 23 27 3 2396.4 -28.25 87.49

DIFFERENTIAL CORRECTIONS

TOE .5929 TRA-2.3677 TC3-3.1611 BAU 1.2095
 RDE .2654 RRA -.0875 RC3 -.3206 FAU .05229
 FDE .3149 FRA -.5048 FC3-1.5899 BSP 20628
 BOE .6496 BRA 2.3693 BC3 3.1773 FSP -879

MID-COURSE EXECUTION ACCURACY

SGT 4780.6 SGR 461.9 SG3 161.6
 RRT .7900 RRF .8846 RTF .9284
 SGB 4802.9 R23 .2423 R13 .9295
 SG1 4794.5 SG2 282.4 THA 4.38

ORBIT DETERMINATION ACCURACY

ST 1188.2 SR 287.6 SS 262.0
 CRT .6419 CRS -.9044 CST -.9044
 LSA 1226.8 MSA 240.4 SSA 14.0
 EL1 1202.9 EL2 217.8 ALF 9.13

LAUNCH DATE MAR 13 1969

FLIGHT TIME 144.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

RL 148.70 LAL .00 LOL 172.24 VL 27.049 GAL -5.92 AZL 85.14 HCA 213.03 SMA 126.00 ECC .20679 INC 4.8599 V1 29.964
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.352 GAP 8.86 AZP 94.08 TAL 203.99 TAP 57.02 RCA 99.94 APO 152.05 V2 34.957
 RC 159.953 GL 26.70 GP -32.62 ZAL 129.93 ZAP 143.99 ETS 301.63 ZAE 124.87 ETE 205.67 ZAC 135.95 ETC 197.38 CLP-163.84

PLANETOCENTRIC CONIC

C3 25.731 VHL 5.073 DLA 38.52 RAL 23.07 RAD 6568.0 VEL 12.129 PTH 2.17 VHP 7.395 DPA -17.21 RAP 51.01 ECC 1.4235
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.72 16 20 29 4190.59 -24.08 185.17 258.92 58.99 17 30 19 3590.6 -28.01 177.82
 117.28 22 38 25 3004.62 -24.07 95.37 258.91 58.98 23 28 29 2404.6 -27.99 88.03
 62.72 16 20 29 4190.59 -24.08 185.17 258.92 58.99 17 30 19 3590.6 -28.01 177.82
 117.28 22 38 25 3004.62 -24.07 95.37 258.91 58.98 23 28 29 2404.6 -27.99 88.03
 62.72 16 20 29 4190.59 -24.08 185.17 258.92 58.99 17 30 19 3590.6 -28.01 177.82
 117.28 22 38 25 3004.62 -24.07 95.37 258.91 58.98 23 28 29 2404.6 -27.99 88.03

DIFFERENTIAL CORRECTIONS

TOE .8423 TRA-1.9294 TC3-3.0935 BAU 1.0669
 RDE .3187 RRA -.0123 RC3 -.2196 FAU .04182
 FDE .4915 FRA -.2040 FC3-1.4071 BSP 13310
 BOE .9006 BRA 1.9294 BC3 3.1013 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 4302.6 SGR 423.7 SG3 134.8
 RRT .5985 RRF .7916 RTF .8685
 SGB 4323.4 R23 .3352 R13 .8701
 SG1 4310.1 SG2 338.9 THA 3.39

ORBIT DETERMINATION ACCURACY

ST 1269.7 SR 360.1 SS 360.2
 CRT .7602 CRS -.9882 CST -.8466
 LSA 1337.5 MSA 287.2 SSA 12.3
 EL1 1299.9 EL2 228.5 ALF 12.56

LAUNCH DATE MAR 13 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

RL 148.70 LAL .00 LOL 172.24 VL 26.979 GAL -5.53 AZL 85.72 HCA 216.21 SMA 125.55 ECC .20734 INC 4.2761 V1 29.964
 RP 108.37 LAP -2.52 LOP 28.38 VP 37.313 GAP 9.05 AZP 93.45 TAL 202.16 TAP 58.37 RCA 99.52 APO 151.58 V2 34.970
 RC 162.097 GL 24.37 GP -30.12 ZAL 129.21 ZAP 146.44 ETS 302.36 ZAE 126.04 ETE 204.21 ZAC 138.67 ETC 196.65 CLP-164.46

PLANETOCENTRIC CONIC

C3 23.538 VHL 4.852 DLA 37.10 RAL 26.32 RAD 6568.0 VEL 12.038 PTH 2.15 VHP 7.319 DPA -14.10 RAP 52.24 ECC 1.3874
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.96 16 44 42 4135.88 -24.01 180.64 260.24 60.83 17 53 38 3535.9 -27.71 173.17
 115.04 22 40 6 3015.53 -24.00 96.22 260.23 60.82 23 30 21 2415.5 -27.70 88.75
 64.96 16 44 42 4135.88 -24.01 180.64 260.24 60.83 17 53 38 3535.9 -27.71 173.17
 115.04 22 40 6 3015.53 -24.00 96.22 260.23 60.82 23 30 21 2415.5 -27.70 88.75
 64.96 16 44 42 4135.88 -24.01 180.64 260.24 60.83 17 53 38 3535.9 -27.71 173.17
 115.04 22 40 6 3015.53 -24.00 96.22 260.23 60.82 23 30 21 2415.5 -27.70 88.75

DIFFERENTIAL CORRECTIONS

TOE .7839 TRA-1.8074 TC3-3.4726 BAU 1.0951
 RDE .3044 RRA -.0139 RC3 -.2267 FAU .04188
 FDE .4430 FRA -.1433 FC3-1.5402 BSP 13773
 BOE .8409 BRA 1.8075 BC3 3.4800 FSP -438

MID-COURSE EXECUTION ACCURACY

SGT 4401.4 SGR 422.0 SG3 138.0
 RRT .6081 RRF .7732 RTF .8658
 SGB 4421.6 R23 .3070 R13 .8672
 SG1 4408.9 SG2 334.4 THA 3.36

ORBIT DETERMINATION ACCURACY

ST 1229.5 SR 359.6 SS 334.5
 CRT .7654 CRS -.9924 CST -.8303
 LSA 1293.5 MSA 282.3 SSA 14.4
 EL1 1261.0 EL2 225.6 ALF 13.04

LAUNCH DATE MAR 13 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

RL 148.70 LAL .00 LOL 172.24 VL 26.910 GAL -5.13 AZL 86.23 HCA 219.39 SMA 125.11 ECC .20808 INC 3.7742 V1 29.964
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.276 GAP 9.24 AZP 92.92 TAL 200.33 TAP 59.72 RCA 99.08 APO 151.14 V2 34.983
 RC 164.221 GL 22.24 GP -27.95 ZAL 128.09 ZAP 148.62 ETS 302.91 ZAE 126.99 ETE 202.86 ZAC 141.31 ETC 195.95 CLP-165.13

PLANETOCENTRIC CONIC

C3 21.721 VHL 4.661 DLA 35.89 RAL 29.61 RAD 6567.9 VEL 11.962 PTH 2.13 VHP 7.283 DPA -11.32 RAP 53.63 ECC 1.3575
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.97 17 8 35 4084.54 -23.92 176.45 261.82 62.41 18 16 40 3484.5 -27.41 168.88
 113.03 22 42 29 3027.85 -23.91 97.16 261.81 62.40 23 32 56 2427.8 -27.40 89.59
 66.97 17 8 35 4084.54 -23.92 176.45 261.82 62.41 18 16 40 3484.5 -27.41 168.88
 113.03 22 42 29 3027.85 -23.91 97.16 261.81 62.40 23 32 56 2427.8 -27.40 89.59
 66.97 17 8 35 4084.54 -23.92 176.45 261.82 62.41 18 16 40 3484.5 -27.41 168.88
 113.03 22 42 29 3027.85 -23.91 97.16 261.81 62.40 23 32 56 2427.8 -27.40 89.59

DIFFERENTIAL CORRECTIONS

TOE .7433 TRA-1.6733 TC3-3.8417 BAU 1.1176
 RDE .2952 RRA -.0129 RC3 -.2304 FAU .04133
 FDE .4025 FRA -.0790 FC3-1.6471 BSP 14049
 BOE .7998 BRA 1.6733 BC3 3.8486 FSP -443

MID-COURSE EXECUTION ACCURACY

SGT 4483.9 SGR 422.1 SG3 139.8
 RRT .6077 RRF .7492 RTF .8623
 SGB 4503.7 R23 .2799 R13 .8635
 SG1 4491.2 SG2 334.7 THA 3.29

ORBIT DETERMINATION ACCURACY

ST 1194.5 SR 363.0 SS 313.5
 CRT .7767 CRS -.9956 CST -.8141
 LSA 1256.8 MSA 277.4 SSA 16.6
 EL1 1228.5 EL2 222.3 ALF 13.74

LAUNCH DATE MAR 13 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 448.363

RL 148.70 LAL .00 LOL 172.24 VL 26.842 GAL -4.73 AZL 86.66 HCA 222.58 SMA 124.68 ECC .20898 INC 3.3357 V1 29.964
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.239 GAP 9.43 AZP 92.46 TAL 198.49 TAP 61.07 RCA 98.62 APO 150.73 V2 34.996
 RC 166.326 GL 20.27 GP -26.06 ZAL 126.60 ZAP 150.57 ETS 303.28 ZAE 127.78 ETE 201.63 ZAC 143.89 ETC 195.31 CLP-165.83

PLANETOCENTRIC CONIC

C3 20.193 VHL 4.494 DLA 34.84 RAL 32.98 RAD 6567.8 VEL 11.898 PTH 2.11 VHP 7.277 DPA -8.81 RAP 55.16 ECC 1.3323
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.80 17 32 23 4035.94 -23.81 172.53 263.66 63.78 18 39 39 3435.9 -27.13 164.89
 111.20 22 45 34 3041.44 -23.79 98.17 263.66 63.77 23 36 15 2441.4 -27.12 90.53
 68.80 17 32 23 4035.94 -23.81 172.53 263.66 63.78 18 39 39 3435.9 -27.13 164.89
 111.20 22 45 34 3041.44 -23.79 98.17 263.66 63.77 23 36 15 2441.4 -27.12 90.53
 68.80 17 32 23 4035.94 -23.81 172.53 263.66 63.78 18 39 39 3435.9 -27.13 164.89
 111.20 22 45 34 3041.44 -23.79 98.17 263.66 63.77 23 36 15 2441.4 -27.12 90.53

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .7097 TRA-1.5345 TC3-4.2139 BAU 1.1393 SGT 4565.5 SGR 424.1 SG3 140.8 ST 1159.0 SR 368.0 SS 293.6
 RDE .2885 RRA -.0109 RC3 -.2340 FAU .04053 RRT .6041 RRF .7232 RTF .8600 CRT .7908 CRS -.9965 CST -.7971
 FDE .3643 FRA -.0171 FC3-1.7378 BSP 14333 SGB 4585.2 R23 .2519 R13 .8611 LSA 1221.0 MSA 271.5 SSA 19.0
 BDE .7661 BRA 1.5345 BC3 4.2204 FSP -447 SGI 4572.8 SG2 337.4 THA 3.23 EL1 1196.3 EL2 218.2 ALF 14.59

LAUNCH DATE MAR 13 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 454.076

RL 148.70 LAL .00 LOL 172.24 VL 26.775 GAL -4.31 AZL 87.05 HCA 225.77 SMA 124.26 ECC .21008 INC 2.9470 V1 29.964
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.203 GAP 9.63 AZP 92.06 TAL 196.65 TAP 62.41 RCA 98.15 APO 150.36 V2 35.010
 RC 168.410 GL 18.41 GP -24.41 ZAL 124.78 ZAP 152.33 ETS 303.49 ZAE 128.45 ETE 200.51 ZAC 146.43 ETC 194.70 CLP-166.54

PLANETOCENTRIC CONIC

C3 18.895 VHL 4.347 DLA 33.92 RAL 36.45 RAD 6567.8 VEL 11.844 PTH 2.10 VHP 7.296 DPA -6.55 RAP 56.80 ECC 1.3110
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.50 17 56 20 3989.48 -23.68 168.83 265.77 64.97 19 2 49 3389.5 -26.84 161.12
 109.50 22 49 18 3056.40 -23.66 99.28 265.76 64.96 23 40 15 2456.4 -26.83 91.57
 70.50 17 56 20 3989.48 -23.68 168.83 265.77 64.97 19 2 49 3389.5 -26.84 161.12
 109.50 22 49 18 3056.40 -23.66 99.28 265.76 64.96 23 40 15 2456.4 -26.83 91.57
 110.00 23 24 43 2948.32 -26.56 92.25 267.16 67.64 24 13 51 2348.3 -29.35 84.18
 110.00 22 20 6 3145.57 -20.84 104.72 264.25 62.27 23 12 31 2545.6 -24.39 97.36

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6816 TRA-1.3890 TC3-4.5848 BAU 1.1597 SGT 4643.5 SGR 427.5 SG3 141.2 ST 1122.3 SR 374.1 SS 274.5
 RDE .2837 RRA -.0079 RC3 -.2379 FAU .03953 RRT .5985 RRF .6963 RTF .8586 CRT .8081 CRS -.9942 CST -.7791
 FDE .3281 FRA .0424 FC3-1.8114 BSP 14603 SGB 4663.1 R23 .2242 R13 .8595 LSA 1185.2 MSA 264.0 SSA 21.6
 BDE .7383 BRA 1.3890 BC3 4.5910 FSP -448 SGI 4650.6 SG2 342.0 THA 3.17 EL1 1163.7 EL2 212.5 ALF 15.61

LAUNCH DATE MAR 13 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 459.781

RL 148.70 LAL .00 LOL 172.24 VL 26.709 GAL -3.88 AZL 87.40 HCA 228.96 SMA 123.85 ECC .21136 INC 2.5980 V1 29.964
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.168 GAP 9.84 AZP 91.71 TAL 194.80 TAP 63.75 RCA 97.67 APO 150.03 V2 35.023
 RC 170.474 GL 16.64 GP -22.95 ZAL 122.65 ZAP 153.92 ETS 303.52 ZAE 129.01 ETE 199.50 ZAC 148.93 ETC 194.14 CLP-167.27

PLANETOCENTRIC CONIC

C3 17.790 VHL 4.218 DLA 33.09 RAL 40.04 RAD 6567.7 VEL 11.797 PTH 2.09 VHP 7.333 DPA -4.49 RAP 58.55 ECC 1.2928
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.13 18 20 45 3944.40 -23.52 165.26 268.13 66.04 19 26 29 3344.4 -26.56 157.51
 107.87 22 53 33 3073.26 -23.51 100.51 268.13 66.03 23 44 46 2473.3 -26.55 92.75
 72.13 18 20 45 3944.40 -23.52 165.26 268.13 66.04 19 26 29 3344.4 -26.56 157.51
 107.87 22 53 33 3073.26 -23.51 100.51 268.13 66.03 23 44 46 2473.3 -26.55 92.75
 110.00 0 16 5 2831.88 -29.32 84.33 270.64 71.59 1 3 16 2231.9 -31.55 75.83
 110.00 22 1 20 3233.78 -17.96 109.93 265.13 60.42 22 55 14 2633.8 -21.76 102.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6587 TRA-1.2342 TC3-4.9466 BAU 1.1779 SGT 4713.5 SGR 432.3 SG3 141.0 ST 1084.8 SR 381.3 SS 257.8
 RDE .2807 RRA -.0036 RC3 -.2414 FAU .03831 RRT .5902 RRF .6696 RTF .8574 CRT .8292 CRS -.9870 CST -.7595
 FDE .2953 FRA .1014 FC3-1.8646 BSP 14805 SGB 4733.3 R23 .1992 R13 .8582 LSA 1150.3 MSA 254.9 SSA 24.7
 BDE .7160 BRA 1.2343 BC3 4.9525 FSP -445 SGI 4720.4 SG2 348.5 THA 3.12 EL1 1131.6 EL2 204.4 ALF 16.81

LAUNCH DATE MAR 13 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 465.476

RL 148.70 LAL .00 LOL 172.24 VL 26.644 GAL -3.44 AZL 87.72 HCA 232.15 SMA 123.45 ECC .21285 INC 2.2812 V1 29.964
 RP 108.16 LAP -1.80 LOP 44.38 VP 37.134 GAP 10.05 AZP 91.40 TAL 192.94 TAP 65.09 RCA 97.17 APO 149.73 V2 35.036
 RC 172.518 GL 14.94 GP -21.66 ZAL 120.23 ZAP 155.38 ETS 303.39 ZAE 129.50 ETE 198.58 ZAC 151.42 ETC 193.62 CLP-168.00

PLANETOCENTRIC CONIC

C3 16.852 VHL 4.105 DLA 32.32 RAL 43.77 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 7.387 DPA -2.61 RAP 60.40 ECC 1.2773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.73 18 46 5 3899.50 -23.35 161.73 270.77 66.99 19 51 5 3299.5 -26.26 153.94
 106.27 22 57 59 3093.13 -23.33 101.95 270.76 66.98 23 49 32 2493.1 -26.24 94.15
 73.73 18 46 5 3899.50 -23.35 161.73 270.77 66.99 19 51 5 3299.5 -26.26 153.94
 106.27 22 57 59 3093.13 -23.33 101.95 270.76 66.98 23 49 32 2493.1 -26.24 94.15
 110.00 0 50 41 2757.21 -30.81 79.02 273.70 74.41 1 36 38 2157.2 -32.64 70.28
 110.00 21 56 30 3283.41 -16.27 112.75 266.98 59.52 22 51 13 2683.4 -20.20 105.86

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .6343 TRA-1.0744 TC3-5.3046 BAU 1.1964 SGT 4785.4 SGR 437.9 SG3 140.5 ST 1041.2 SR 388.5 SS 240.5
 RDE .2783 RRA .0015 RC3 -.2462 FAU .03706 RRT .5822 RRF .6441 RTF .8575 CRT .8511 CRS -.9728 CST -.7356
 FDE .2620 FRA .1566 FC3-1.9040 BSP 15062 SGB 4805.4 R23 .1748 R13 .8582 LSA 1110.2 MSA 243.8 SSA 28.4
 BDE .6927 BRA 1.0744 BC3 5.3103 FSP -444 SGI 4792.3 SG2 355.5 THA 3.07 EL1 1094.3 EL2 194.0 ALF 18.21

LAUNCH DATE MAR 13 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 471.162

RL 148.70 LAL .00 LOL 172.24 VL 26.580 GAL -2.99 AZL 88.01 MCA 235.35 SMA 123.06 ECC .21455 INC 1.9905 V1 29.964
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.101 GAP 10.27 AZP 91.13 TAL 191.08 TAP 66.43 RCA 96.66 APO 149.46 V2 35.050
 RC 174.540 GL 13.30 GP -20.52 ZAL 117.55 ZAP 156.71 ETS 303.09 ZAE 129.93 ETE 197.76 ZAC 153.89 ETC 193.12 CLP-168.73

PLANETOCENTRIC CONIC

C3 16.067 VHL 4.008 CLA 31.58 RAL 47.65 RAD 6567.6 VEL 11.724 PTH 2.07 VHP 7.456 DPA -.90 RAP 62.32 ECC 1.2644
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 75.39 19 12 46 3853.53 -23.13 158.14 273.67 67.87 20 17 0 3253.5 -25.92 150.31
 104.61 23 2 15 3117.26 -23.11 103.68 273.67 67.85 23 54 12 2517.3 -25.91 95.86
 75.39 19 12 46 3853.53 -23.13 158.14 273.67 67.87 20 17 0 3253.5 -25.92 150.31
 104.61 23 2 15 3117.26 -23.11 103.68 273.67 67.85 23 54 12 2517.3 -25.91 95.86
 110.00 1 21 21 2697.64 -31.82 74.67 276.79 76.80 2 6 18 2097.6 -33.31 65.76
 110.00 21 56 47 3321.15 -14.96 114.92 269.35 58.90 22 52 8 2721.2 -18.97 108.10

DIFFERENTIAL CORRECTIONS

TOE .6082 TRA -.9070 TC3-5.6481 BAU 1.2144
 ROE .2765 RRA .0076 RC3 -.2515 FAU .03576
 FOE .2290 FRA .2093 FC3-1.9268 BSP 15326
 BOE .6681 BRA .9070 BC3 5.6537 FSP -444

MID-COURSE EXECUTION ACCURACY

SGT 4855.3 SGR 443.9 SG3 139.8
 RRT .5741 RRF .6202 RTF .8587
 SGB 4875.6 R23 .1519 R13 .8593
 SG1 4862.0 SG2 362.9 THA 3.02

ORBIT DETERMINATION ACCURACY

ST 991.3 SR 395.3 SS 223.5
 CRT .8745 CRS -.9482 CST -.7057
 LSA 1065.3 MSA 230.5 SSA 32.9
 EL1 1051.8 EL2 180.7 ALF 19.83

LAUNCH DATE MAR 13 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 476.836

RL 148.70 LAL .00 LOL 172.24 VL 26.517 GAL -2.52 AZL 88.28 MCA 238.56 SMA 122.68 ECC .21647 INC 1.7212 V1 29.964
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.068 GAP 10.49 AZP 90.90 TAL 189.22 TAP 67.77 RCA 96.12 APO 149.23 V2 35.063
 RC 176.542 GL 11.69 GP -19.50 ZAL 114.61 ZAP 157.93 ETS 302.62 ZAE 130.31 ETE 197.02 ZAC 156.36 ETC 192.64 CLP-169.46

PLANETOCENTRIC CONIC

C3 15.424 VHL 3.927 DLA 30.86 RAL 51.68 RAD 6567.6 VEL 11.696 PTH 2.06 VHP 7.537 DPA .67 RAP 64.32 ECC 1.2538
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 77.20 19 41 32 3804.30 -22.85 154.31 276.84 68.68 20 44 57 3204.3 -25.54 146.46
 102.80 23 5 37 3147.99 -22.84 105.88 276.84 68.67 23 58 5 2548.0 -25.53 98.04
 77.20 19 41 32 3804.30 -22.85 154.31 276.84 68.68 20 44 57 3204.3 -25.54 146.46
 102.80 23 5 37 3147.99 -22.84 105.88 276.84 68.67 23 58 5 2548.0 -25.53 98.04
 110.00 1 50 21 2646.27 -32.56 70.85 280.02 78.95 2 34 28 2046.3 -33.74 61.81
 110.00 21 59 55 3354.02 -13.79 116.76 272.10 58.41 22 55 49 2754.0 -17.87 110.02

DIFFERENTIAL CORRECTIONS

TOE .5798 TRA -.7305 TC3-5.9655 BAU 1.2312
 ROE .2754 RRA .0149 RC3 -.2565 FAU .03438
 FOE .1970 FRA .2608 FC3-1.9297 BSP 15556
 + BOE .6419 BRA .7306 BC3 5.9710 FSP -441

MID-COURSE EXECUTION ACCURACY

SGT 4920.6 SGR 450.2 SG3 138.7
 RRT .5654 RRF .5980 RTF .8603
 SGB 4941.1 R23 .1318 R13 .8609
 SG1 4927.2 SG2 370.8 THA 2.98

ORBIT DETERMINATION ACCURACY

ST 934.8 SR 401.9 SS 208.3
 CRT .8993 CRS -.9081 CST -.6687
 LSA 1015.5 MSA 214.8 SSA 38.7
 EL1 1004.3 EL2 163.6 ALF 21.74

LAUNCH DATE MAR 13 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 482.497

RL 148.70 LAL .00 LOL 172.24 VL 26.455 GAL -2.05 AZL 88.53 MCA 241.76 SMA 122.31 ECC .21862 INC 1.4696 V1 29.964
 RP 108.04 LAP -1.29 LOP 54.00 VP 37.036 GAP 10.73 AZP 90.70 TAL 187.35 TAP 69.11 RCA 95.57 APO 149.05 V2 35.076
 RC 178.523 GL 10.11 GP -18.59 ZAL 111.44 ZAP 159.06 ETS 301.98 ZAE 130.65 ETE 196.35 ZAC 158.82 ETC 192.16 CLP-170.19

PLANETOCENTRIC CONIC

C3 14.918 VHL 3.862 DLA 30.12 RAL 55.85 RAD 6567.6 VEL 11.675 PTH 2.05 VHP 7.631 DPA 2.11 RAP 66.39 ECC 1.2455
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.29 20 13 35 3747.95 -22.51 149.95 280.28 69.44 21 16 3 3148.0 -25.10 142.09
 100.71 23 6 52 3189.39 -22.50 108.84 280.28 69.43 24 0 1 2589.4 -25.09 100.98
 79.29 20 13 35 3747.95 -22.51 149.95 280.28 69.44 21 16 3 3148.0 -25.10 142.09
 100.71 23 6 52 3189.39 -22.50 108.84 280.28 69.43 24 0 1 2589.4 -25.09 100.98
 110.00 2 18 45 2599.97 -33.11 67.35 283.44 80.95 3 2 5 2000.0 -34.00 58.22
 110.00 22 4 48 3385.37 -12.67 118.49 275.19 57.98 23 1 14 2785.4 -16.81 111.83

DIFFERENTIAL CORRECTIONS

TOE .5478 TRA -.5429 TC3-6.2415 BAU 1.2459
 ROE .2749 RRA .0237 RC3 -.2603 FAU .03289
 FOE .1658 FRA .3119 FC3-1.9089 BSP 15723
 BOE .6129 BRA .5434 BC3 6.2470 FSP -435

MID-COURSE EXECUTION ACCURACY

SGT 4977.3 SGR 456.4 SG3 137.2
 RRT .5559 RRF .5774 RTF .8619
 SGB 4998.2 R23 .1149 R13 .8624
 SG1 4983.8 SG2 378.9 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 871.3 SR 408.0 SS 195.8
 CRT .9249 CRS -.8460 CST -.6238
 LSA 960.8 MSA 196.9 SSA 46.4
 EL1 951.6 EL2 142.0 ALF 23.98

LAUNCH DATE MAR 13 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 488.143

RL 148.70 LAL .00 LOL 172.24 VL 26.394 GAL -1.55 AZL 88.77 MCA 244.97 SMA 121.94 ECC .22103 INC 1.2325 V1 29.964
 RP 108.00 LAP -1.12 LOP 57.21 VP 37.005 GAP 10.98 AZP 90.52 TAL 185.48 TAP 70.45 RCA 94.99 APO 148.90 V2 35.089
 RC 180.483 GL 8.56 GP -17.77 ZAL 108.05 ZAP 160.11 ETS 301.17 ZAE 130.96 ETE 195.75 ZAC 161.28 ETC 191.67 CLP-170.92

PLANETOCENTRIC CONIC

C3 14.550 VHL 3.814 DLA 29.34 RAL 60.16 RAD 6567.6 VEL 11.659 PTH 2.05 VHP 7.736 DPA 3.43 RAP 68.52 ECC 1.2394
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.97 20 51 22 3676.45 -22.08 144.47 283.98 70.17 21 52 39 3076.5 -24.59 136.61
 98.03 23 3 25 3249.75 -22.07 113.15 283.98 70.16 23 57 35 2649.7 -24.58 105.29
 100.00 0 10 45 3046.68 -25.73 99.39 285.26 74.23 1 1 31 2446.7 -27.64 91.11
 100.00 22 30 40 3354.76 -18.52 119.40 282.46 66.11 23 26 34 2754.8 -21.59 111.95
 110.00 2 47 4 2556.97 -33.52 64.06 287.08 82.86 3 29 41 1957.0 -34.14 54.87
 110.00 22 10 50 3417.22 -11.51 120.23 278.58 57.59 23 7 47 2817.2 -15.71 113.64

DIFFERENTIAL CORRECTIONS

TOE .5063 TRA -.3486 TC3-6.4775 BAU 1.2610
 ROE .2744 RRA .0332 RC3 -.2639 FAU .03146
 FOE .1330 FRA .3601 FC3-1.8721 BSP 15937
 BOE .5758 BRA .3502 BC3 6.4829 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 5035.7 SGR 462.2 SG3 135.6
 RRT .5472 RRF .5586 RTF .8648
 SGB 5056.9 R23 .0987 R13 .8652
 SG1 5042.1 SG2 386.4 THA 2.89

ORBIT DETERMINATION ACCURACY

ST 795.5 SR 412.5 SS 184.8
 CRT .9484 CRS -.7524 CST -.5673
 LSA 895.7 MSA 177.6 SSA 56.9
 EL1 888.4 EL2 117.2 ALF 26.69

LAUNCH DATE MAR 13 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 493.773

RL 148.70 LAL .00 LOL 172.24 VL 26.333 GAL -1.04 AZL 88.99 HCA 248.18 SMA 121.59 ECC .22370 INC 1.0073 V1 29.964
 RP 107.96 LAP -.94 LOP 60.42 VP 36.974 GAP 11.23 AZP 90.37 TAL 183.61 TAP 71.80 RCA 94.39 APO 148.79 V2 35.102
 RC 182.422 GL 7.03 GP -17.04 ZAL 104.47 ZAP 161.08 ETS 300.17 ZAE 131.24 ETE 195.20 ZAC 163.74 ETC 191.15 CLP -171.64

PLANETOCENTRIC CONIC

C3 14.320 VHL 3.784 CLA 28.52 RAL 64.57 RAD 6567.6 VEL 11.649 PTH 2.05 VHP 7.852 OPA 4.64 RAP 70.70 ECC 1.2357
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 86.47 21 45 30 3555.21 -21.56 135.35 287.93 70.87 22 44 45 2955.2 -23.98 127.50
 93.53 22 44 32 3363.96 -21.56 121.35 287.92 70.86 23 40 36 2764.0 -23.97 113.50
 100.00 0 56 16 2952.41 -27.30 92.83 289.72 77.34 1 45 29 2352.4 -28.77 84.33
 100.00 22 20 22 3441.99 -16.04 124.69 285.53 64.43 23 17 44 2842.0 -19.35 117.46
 110.00 3 15 35 2516.29 -33.82 60.92 290.92 84.69 3 57 31 1916.3 -34.18 51.70
 110.00 22 17 32 3450.87 -10.28 122.06 282.23 57.22 23 15 3 2850.9 -14.53 115.53

DIFFERENTIAL CORRECTIONS

TDE .4546 TRA -.1456 TC3-6.6587 BAU 1.2758
 RDE .2740 RRA .0438 RC3 -.2661 FAU .03004
 FDE .0990 FRA .4064 FC3-1.8164 BSP 16171
 BDE .5308 BRA .1520 BC3 6.6640 FSP -429

MID-COURSE EXECUTION ACCURACY

SGT 5092.6 SGR 467.3 SG3 133.9
 RRT .5386 RRF .5411 RTF .8685
 SGB 5114.0 R23 .0837 R13 .8688
 SG1 5098.8 SG2 393.3 THA 2.85

ORBIT DETERMINATION ACCURACY

ST 708.7 SR 415.5 SS 177.3
 CRT .9670 CRS -.6189 CST -.5055
 LSA 822.1 MSA 159.8 SSA 70.5
 EL1 816.4 EL2 92.0 ALF 29.97

LAUNCH DATE MAR 13 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 499.584

RL 148.70 LAL .00 LOL 172.24 VL 26.274 GAL -.51 AZL 89.21 HCA 251.40 SMA 121.24 ECC .22666 INC .7918 V1 29.964
 RP 107.92 LAP -.75 LOP 63.64 VP 36.944 GAP 11.51 AZP 90.25 TAL 181.75 TAP 73.14 RCA 93.76 APO 148.72 V2 35.114
 RC 184.340 GL 5.52 GP -16.37 ZAL 100.73 ZAP 161.97 ETS 298.98 ZAE 131.50 ETE 194.71 ZAC 166.20 ETC 190.57 CLP -172.36

PLANETOCENTRIC CONIC

C3 14.235 VHL 3.773 CLA 27.63 RAL 69.07 RAD 6567.6 VEL 11.646 PTH 2.04 VHP 7.980 OPA 5.75 RAP 72.94 ECC 1.2343
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 27 43 3280.00 -24.89 116.30 293.34 76.05 24 22 23 2680.0 -26.57 108.03
 90.00 21 38 12 3636.53 -17.09 139.48 290.56 67.07 22 38 48 3036.5 -20.05 132.05
 100.00 1 35 38 2880.31 -28.28 87.69 294.15 79.87 2 23 38 2280.3 -29.38 79.06
 100.00 22 16 54 3511.45 -13.95 128.79 289.05 63.29 23 15 25 2911.5 -17.42 121.72
 110.00 3 44 22 2477.40 -34.02 57.90 294.95 86.47 4 25 40 1877.4 -34.14 48.66
 110.00 22 24 38 3487.12 -8.93 124.01 286.11 56.87 23 22 45 2887.1 -13.23 117.55

DIFFERENTIAL CORRECTIONS

TDE .3952 TRA .0707 TC3-6.7607 BAU 1.2876
 RDE .2740 RRA .0557 RC3 -.2656 FAU .02856
 FDE .0649 FRA .4530 FC3-1.7369 BSP 16299
 BDE .4809 BRA .0900 BC3 6.7659 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 5138.2 SGR 471.6 SG3 131.9
 RRT .5297 RRF .5247 RTF .8720
 SGB 5159.8 R23 .0707 R13 .8723
 SG1 5144.3 SG2 399.5 THA 2.80

ORBIT DETERMINATION ACCURACY

ST 620.5 SR 417.1 SS 176.5
 CRT .9725 CRS -.4487 CST -.4637
 LSA 747.9 MSA 155.6 SSA 80.9
 EL1 743.2 EL2 81.1 ALF 33.63

LAUNCH DATE MAR 13 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 504.973

RL 148.70 LAL .00 LOL 172.24 VL 26.216 GAL .03 AZL 89.42 HCA 254.61 SMA 120.91 ECC .22992 INC .5842 V1 29.964
 RP 107.88 LAP -.56 LOP 66.85 VP 36.914 GAP 11.79 AZP 90.15 TAL 179.89 TAP 74.50 RCA 93.11 APO 148.70 V2 35.126
 RC 186.236 GL 4.05 GP -15.77 ZAL 96.86 ZAP 162.81 ETS 297.60 ZAE 131.74 ETE 194.26 ZAC 168.66 ETC 189.84 CLP -173.07

PLANETOCENTRIC CONIC

C3 14.302 VHL 3.782 CLA 26.67 RAL 73.61 RAD 6567.6 VEL 11.649 PTH 2.04 VHP 8.119 OPA 6.76 RAP 75.22 ECC 1.2354
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 19 42 3181.96 -26.33 109.48 298.16 79.18 1 12 44 2582.0 -27.56 101.02
 90.00 21 26 23 3736.65 -14.33 145.53 294.07 65.32 22 28 40 3136.6 -17.55 138.33
 100.00 2 12 27 2818.45 -28.93 83.21 298.64 82.14 2 59 26 2218.5 -29.72 74.49
 100.00 22 16 18 3575.39 -11.96 132.50 292.88 62.40 23 15 54 2975.4 -15.57 125.56
 110.00 4 13 22 2440.11 -34.14 55.00 299.16 88.18 4 54 2 1840.1 -34.02 45.75
 110.00 22 31 53 3526.50 -7.46 126.11 290.19 56.54 23 30 39 2926.5 -11.81 119.71

DIFFERENTIAL CORRECTIONS

TDE .3306 TRA .3009 TC3-6.7666 BAU 1.2948
 RDE .2753 RRA .0688 RC3 -.2583 FAU .02672
 FDE .0353 FRA .5001 FC3-1.6175 BSP 16430
 BDE .4302 BRA .3087 BC3 6.7716 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 5167.8 SGR 475.1 SG3 128.7
 RRT .5166 RRF .5090 RTF .8732
 SGB 5189.6 R23 .0644 R13 .8734
 SG1 5173.7 SG2 406.3 THA 2.74

ORBIT DETERMINATION ACCURACY

ST 545.8 SR 418.6 SS 184.2
 CRT .9418 CRS -.2859 CST -.4980
 LSA 683.2 MSA 185.8 SSA 75.2
 EL1 678.4 EL2 113.2 ALF 37.04

LAUNCH DATE MAR 13 1969

FLIGHT TIME 172.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 510.539

RL 148.70 LAL .00 LOL 172.24 VL 26.159 GAL .60 AZL 89.62 HCA 257.83 SMA 120.58 ECC .23351 INC .3826 V1 29.964
 RP 107.85 LAP -.37 LOP 70.07 VP 36.885 GAP 12.09 AZP 90.08 TAL 178.02 TAP 75.86 RCA 92.42 APO 148.73 V2 35.138
 RC 188.109 GL 2.63 GP -15.23 ZAL 92.90 ZAP 163.58 ETS 296.02 ZAE 131.97 ETE 193.85 ZAC 171.12 ETC 188.85 CLP -173.79

PLANETOCENTRIC CONIC

C3 14.533 VHL 3.812 CLA 25.64 RAL 78.17 RAD 6567.6 VEL 11.658 PTH 2.05 VHP 8.271 OPA 7.68 RAP 77.54 ECC 1.2392
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 1 6 3107.25 -27.17 104.17 302.92 81.71 1 52 53 2507.2 -28.04 95.61
 90.00 21 21 20 3818.43 -11.96 150.36 297.98 64.14 22 24 58 3218.4 -15.34 143.32
 100.00 2 47 47 2763.29 -29.38 79.17 303.23 84.22 3 33 50 2163.3 -29.87 70.40
 100.00 22 17 19 3637.63 -9.98 136.05 296.95 61.68 23 17 57 3037.6 -13.69 129.22
 110.00 4 42 27 2404.52 -34.18 52.22 303.52 89.83 5 22 32 1804.5 -33.83 42.99
 110.00 22 39 9 3569.15 -5.85 128.36 294.44 56.26 23 38 38 2969.2 -10.25 122.03

DIFFERENTIAL CORRECTIONS

TDE .2365 TRA .5313 TC3-6.7401 BAU 1.3105
 RDE .2752 RRA .0824 RC3 -.2565 FAU .02562
 FDE -.0039 FRA .5448 FC3-1.5264 BSP 16628
 BDE .3629 BRA .5376 BC3 6.7450 FSP -409

MID-COURSE EXECUTION ACCURACY

SGT 5226.7 SGR 477.7 SG3 127.5
 RRT .5101 RRF .4962 RTF .8791
 SGB 5248.5 R23 .0523 R13 .8793
 SG1 5232.4 SG2 410.4 THA 2.69

ORBIT DETERMINATION ACCURACY

ST 469.8 SR 415.7 SS 196.3
 CRT .8135 CRS -.0789 CST -.5864
 LSA 603.2 MSA 253.6 SSA 63.1
 EL1 597.9 EL2 190.0 ALF 40.71

LAUNCH DATE MAR 13 1969

FLIGHT TIME 174.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 516.077

RL 148.70 LAL .00 LOL 172.24 VL 26.102 GAL 1.19 AZL 89.81 HCA 261.05 SMA 120.25 ECC .23745 INC .1861 VI 29.964
 RP 107.81 LAP -.18 LOP 73.29 VP 36.856 GAP 12.41 AZP 90.03 TAL 176.17 TAP 77.22 RCA 91.70 APO 148.81 V2 35.150
 RC 189.959 GL 1.26 GP -14.74 ZAL 88.89 ZAP 164.29 ETS 294.23 ZAE 132.18 ETE 193.47 ZAC 173.58 ETC 187.26 CLP-174.50

PLANETOCENTRIC CONIC

C3 14.939 VHL 3.865 DLA 24.53 RAL 82.69 RAD 6567.6 VEL 11.676 PTH 2.05 VHP 8.436 OPA 8.51 RAP 79.90 ECC 1.2459
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 39 17 3044.22 -27.71 99.64 307.70 83.92 2 30 2 2444.2 -28.26 91.01
 90.00 21 19 11 3893.74 -9.68 154.73 302.12 63.26 22 24 5 3293.7 -13.20 147.81
 100.00 3 21 55 2713.36 -29.67 75.49 307.89 86.14 4 7 8 2113.4 -29.88 66.69
 100.00 22 19 15 3699.84 -7.95 139.55 301.19 61.09 23 20 55 3099.8 -11.74 132.82
 110.00 5 11 23 2370.86 -34.16 49.59 308.00 91.38 5 50 54 1770.9 -33.59 40.39
 110.00 22 46 16 3615.10 -4.11 130.78 298.84 56.04 23 46 31 3015.1 -8.54 124.49

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1368 TRA .7771 TC3-6.6084 BAU 1.3207 SGT 5266.9 SGR 478.8 SG3 125.3 ST 457.1 SR 412.2 SS 215.6
 RDE .2762 RRA .0968 RC3 -.2480 FAU .02422 RRT .5005 RRF .4826 RTF .8834 CRT .5408 CRS .0871 CST -.7562
 FDE -.0403 FRA .5889 FC3-1.4034 BSP 16827 SGB 5288.6 R23 .0435 R13 .8836 LSA 551.7 MSA 343.9 SSA 51.0
 BDE .3082 BRA .7831 BC3 6.6131 FSP -406 SG1 5272.4 SG2 414.1 THA 2.62 EL1 541.4 EL2 292.7 ALF 39.58

LAUNCH DATE MAR 13 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 521.584

RL 148.70 LAL .00 LOL 172.24 VL 26.047 GAL 1.80 AZL 90.01 HCA 264.28 SMA 119.94 ECC .24177 INC .0000 VI 29.964
 RP 107.78 LAP .01 LOP 76.52 VP 36.827 GAP 12.75 AZP 90.00 TAL 174.32 TAP 78.60 RCA 90.94 APO 148.94 V2 35.161
 RC 191.786 GL -.05 GP -14.29 ZAL 84.87 ZAP 164.95 ETS 292.22 ZAE 132.37 ETE 193.13 ZAC 176.03 ETC 183.93 CLP-175.21

PLANETOCENTRIC CONIC

C3 15.538 VHL 3.942 DLA 23.37 RAL 87.13 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 8.614 OPA 9.26 RAP 82.29 ECC 1.2557
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 15 16 2989.33 -28.04 95.65 312.50 85.89 3 5 5 2389.3 -28.32 87.00
 90.00 21 18 40 3966.29 -7.43 158.87 306.44 62.60 22 24 47 3366.3 -11.05 152.06
 100.00 3 54 52 2668.16 -29.83 72.14 312.61 87.90 4 39 20 2068.2 -29.80 63.33
 100.00 22 21 45 3762.69 -5.86 143.06 305.58 60.64 23 24 28 3162.7 -9.73 136.40
 110.00 5 39 55 2339.51 -34.08 47.14 312.58 92.83 6 18 55 1739.5 -33.31 37.99
 110.00 22 53 11 3664.11 -2.24 133.34 303.34 55.88 23 54 15 3064.1 -6.71 127.10

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .0286 TRA 1.0390 TC3-6.3862 BAU 1.3275 SGT 5296.8 SGR 479.1 SG3 122.8 ST 517.8 SR 407.8 SS 239.6
 RDE .2761 RRA .1122 RC3 -.2358 FAU .02276 RRT .4906 RRF .4704 RTF .8874 CRT .2083 CRS .2115 CST -.8926
 FDE -.0749 FRA .6346 FC3-1.2683 BSP 16892 SGB 5318.4 R23 .0371 R13 .8875 LSA 567.9 MSA 409.4 SSA 41.6
 BDE .2796 BRA 1.0450 BC3 6.3906 FSP -397 SG1 5302.0 SG2 417.1 THA 2.56 EL1 533.4 EL2 387.2 ALF 20.41

LAUNCH DATE MAR 13 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 527.054

RL 148.70 LAL .00 LOL 172.24 VL 25.992 GAL 2.44 AZL 90.20 HCA 267.50 SMA 119.63 ECC .24650 INC .1981 VI 29.964
 RP 107.75 LAP .20 LOP 79.74 VP 36.799 GAP 13.10 AZP 89.99 TAL 172.49 TAP 79.99 RCA 90.14 APO 149.12 V2 35.172
 RC 193.588 GL -1.27 GP -13.88 ZAL 80.89 ZAP 165.54 ETS 289.99 ZAE 132.55 ETE 192.81 ZAC 178.43 ETC 170.62 CLP-175.93

PLANETOCENTRIC CONIC

C3 16.350 VHL 4.043 DLA 22.16 RAL 91.46 RAD 6567.7 VEL 11.736 PTH 2.07 VHP 8.807 OPA 9.93 RAP 84.71 ECC 1.2691
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 20 2941.16 -28.23 92.14 317.33 87.64 3 38 21 2341.2 -28.26 83.48
 90.00 21 19 9 4037.59 -5.18 162.90 310.88 62.12 22 26 26 3437.6 -8.87 156.16
 100.00 4 26 35 2627.57 -29.89 69.12 317.38 89.48 5 10 23 2027.6 -29.64 60.33
 100.00 22 24 35 3826.41 -3.72 146.58 310.08 60.32 23 28 21 3226.4 -7.65 139.99
 110.00 6 7 48 2310.89 -33.96 44.92 317.23 94.14 6 46 19 1710.9 -33.02 35.81
 110.00 22 59 50 3715.86 -2.27 136.04 307.92 55.82 24 1 46 3115.9 -4.75 129.83

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.0963 TRA 1.3097 TC3-6.1023 BAU 1.3347 SGT 5328.0 SGR 477.8 SG3 120.5 ST 634.0 SR 401.6 SS 266.7
 RDE .2803 RRA .1279 RC3 -.2218 FAU .02141 RRT .4805 RRF .4577 RTF .8921 CRT -.0713 CRS .3148 CST -.9585
 FDE -.1115 FRA .6790 FC3-1.1339 BSP 17049 SGB 5349.4 R23 .0302 R13 .8922 LSA 686.3 MSA 402.7 SSA 34.8
 BDE .2964 BRA 1.3160 BC3 6.1063 FSP -392 SG1 5333.0 SG2 418.6 THA 2.48 EL1 635.1 EL2 399.9 ALF 175.71

LAUNCH DATE MAR 13 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 532.484

RL 148.70 LAL .00 LOL 172.24 VL 25.939 GAL 3.11 AZL 90.39 HCA 270.73 SMA 119.33 ECC .25169 INC .3887 VI 29.964
 RP 107.71 LAP .39 LOP 82.97 VP 36.771 GAP 13.49 AZP 90.00 TAL 170.66 TAP 81.39 RCA 89.30 APO 149.37 V2 35.182
 RC 195.366 GL -2.42 GP -13.51 ZAL 76.98 ZAP 166.09 ETS 287.53 ZAE 132.72 ETE 192.52 ZAC 178.84 ETC 41.59 CLP-176.64

PLANETOCENTRIC CONIC

C3 17.399 VHL 4.171 DLA 20.92 RAL 95.65 RAD 6567.7 VEL 11.781 PTH 2.08 VHP 9.016 OPA 10.51 RAP 87.15 ECC 1.2863
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 21 35 2899.11 -28.31 89.07 322.17 89.18 4 9 55 2299.1 -28.12 80.41
 90.00 21 20 15 4108.26 -2.92 166.86 315.42 61.82 22 28 43 3508.3 -6.67 160.18
 100.00 4 56 56 2591.67 -29.88 66.45 322.17 90.89 5 40 8 1991.7 -29.44 57.68
 100.00 22 27 36 3890.93 -1.54 150.12 314.65 60.14 23 32 27 3290.9 -5.50 143.58
 110.00 6 34 49 2285.42 -33.82 42.94 321.92 95.30 7 12 55 1685.4 -32.72 33.88
 110.00 23 6 12 3769.94 1.80 138.86 312.56 55.86 24 9 2 3169.9 -2.69 132.66

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE -.2326 TRA 1.5938 TC3-5.7579 BAU 1.3402 SGT 5354.4 SGR 475.2 SG3 118.1 ST 785.7 SR 394.5 SS 295.3
 RDE .2834 RRA .1439 RC3 -.2055 FAU .02009 RRT .4698 RRF .4453 RTF .8968 CRT -.2549 CRS .3915 CST -.9835
 FDE -.1476 FRA .7236 FC3 -.9994 BSP 17180 SGB 5375.4 R23 .0242 R13 .8969 LSA 846.4 MSA 377.9 SSA 29.7
 BDE .3667 BRA 1.6003 BC3 5.7616 FSP -387 SG1 5359.1 SG2 419.1 THA 2.40 EL1 794.0 EL2 377.5 ALF 170.55

LAUNCH DATE MAR 13 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC
 RL 148.70 LAL .00 LOL 172.24 VL 25.886 GAL 3.81 AZL 90.58 MCA 273.96 SMA 119.04 ECC .25737 INC .5797 V1 29.964
 RP 107.68 LAP .58 LOP 86.20 VP 36.743 GAP 13.89 AZP .0.04 TAL 168.85 TAP 82.81 RCA 88.40 APO 149.68 V2 35.192
 RC 197.118 GL -3.46 GP -13.17 ZAL 73.17 ZAP 166.57 ETS 284.83 ZAE 132.88 ETE 192.25 ZAC 176.48 ETC 21.24 CLP-177.36

PLANETOCENTRIC CONIC
 C3 18.716 VHL 4.326 CLA 19.68 RAL 99.65 RAD 6567.8 VEL 11.836 PTH 2.10 VHP 9.244 DPA 11.03 RAP 89.61 ECC 1.3080
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 52 3 2862.89 -28.31 86.42 327.00 90.51 4 39 46 2262.9 -27.94 77.77
 90.00 21 21 46 4178.51 -.66 170.78 320.01 61.69 22 31 25 3578.5 -4.43 164.14
 100.00 5 25 48 2560.56 -29.83 64.14 326.97 92.10 6 8 29 1960.6 -29.21 55.39
 100.00 22 30 42 3956.07 .67 153.70 319.28 60.11 23 36 38 3356.1 -3.31 147.17
 110.00 7 0 46 2263.49 -33.67 41.25 326.63 96.30 7 38 29 1663.5 -32.43 32.23
 110.00 23 12 14 3825.91 3.94 141.79 317.24 56.02 24 16 0 3225.9 -.55 135.58

DIFFERENTIAL CORRECTIONS
 TOE -.3806 TRA 1.8919 TC3-5.3673 BAU 1.3438 SGT 5375.9 SGR 471.1 SG3 115.7 ST 954.3 SR 386.6 SS 324.5
 RDE .2874 RRA .1602 RC3 -.1875 FAU .01878 RRT .4584 RRF .4326 RTF .9015 CRT -.3719 CRS .4496 CST -.9927
 FDE -.1838 FRA .7690 FC3 -.8687 BSP 17304 SGB 5396.5 R23 .0189 R13 .9015 LSA 1019.4 MSA 354.3 SSA 25.9
 BDE .4769 BRA 1.8986 BC3 5.3705 FSP -382 SG1 5380.3 SG2 418.4 THA 2.31 EL1 966.8 EL2 354.2 ALF 170.09

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 13 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC
 RL 148.70 LAL .00 LOL 172.24 VL 25.834 GAL 4.54 AZL 90.77 MCA 277.19 SMA 118.75 ECC .26360 INC .7721 V1 29.964
 RP 107.66 LAP .77 LOP 89.43 VP 36.715 GAP 14.33 AZP 90.10 TAL 167.05 TAP 84.24 RCA 87.45 APO 150.06 V2 35.201
 RC 198.846 GL -4.41 GP -12.86 ZAL 69.50 ZAP 167.00 ETS 281.90 ZAE 133.02 ETE 191.99 ZAC 174.04 ETC 17.29 CLP-178.08

PLANETOCENTRIC CONIC
 C3 20.334 VHL 4.509 CLA 18.43 RAL 103.47 RAD 6567.8 VEL 11.904 PTH 2.12 VHP 9.490 DPA 11.47 RAP 92.08 ECC 1.3346
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 20 42 2832.35 -28.27 84.19 331.83 91.63 5 7 55 2232.3 -27.75 75.56
 90.00 21 23 34 4248.34 1.60 174.68 324.65 61.72 22 34 22 3648.3 -2.19 168.05
 100.00 5 53 7 2534.35 -29.74 62.20 331.76 93.13 6 35 21 1934.4 -28.99 53.47
 100.00 22 33 50 4021.57 2.89 157.29 323.93 60.23 23 40 52 3421.6 -1.10 150.77
 110.00 7 25 29 2245.37 -33.52 39.85 331.36 97.11 8 2 54 1645.4 -32.18 30.88
 110.00 23 17 58 3883.32 6.11 144.81 321.93 56.30 24 22 41 3283.3 1.64 138.57

DIFFERENTIAL CORRECTIONS
 TOE -.5351 TRA 2.2092 TC3-4.9385 BAU 1.3433 SGT 5390.1 SGR 466.2 SG3 113.4 ST 1126.1 SR 378.6 SS 352.5
 RDE .2927 RRA .1768 RC3 -.1680 FAU .01744 RRT .4467 RRF .4210 RTF .9059 CRT -.4438 CRS .4887 CST -.9963
 FDE -.2179 FRA .8170 FC3 -.7427 BSP 17327 SGB 5410.2 R23 .0155 R13 .9060 LSA 1192.8 MSA 335.2 SSA 23.0
 BDE .6099 BRA 2.2162 BC3 4.9413 FSP -373 SG1 5394.1 SG2 416.7 THA 2.23 EL1 1139.8 EL2 335.2 ALF 170.70

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 13 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC
 RL 148.70 LAL .00 LOL 172.24 VL 25.783 GAL 5.32 AZL 90.97 MCA 280.42 SMA 118.48 ECC .27042 INC .9675 V1 29.964
 RP 107.63 LAP .95 LOP 92.66 VP 36.688 GAP 14.80 AZP 90.17 TAL 165.28 TAP 85.70 RCA 86.44 APO 150.51 V2 35.209
 RC 200.549 GL -5.27 GP -12.57 ZAL 65.99 ZAP 167.37 ETS 278.73 ZAE 133.15 ETE 191.76 ZAC 171.59 ETC 15.59 CLP-178.81

PLANETOCENTRIC CONIC
 C3 22.296 VHL 4.722 CLA 17.21 RAL 107.08 RAD 6567.9 VEL 11.986 PTH 2.14 VHP 9.758 DPA 11.84 RAP 94.57 ECC 1.3669
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 47 32 2807.38 -28.21 82.36 336.63 92.54 5 34 20 2207.4 -27.56 73.76
 90.00 21 25 32 4317.66 3.83 178.55 329.30 61.92 22 37 29 3717.7 .04 171.92
 100.00 6 18 48 2513.09 -29.65 60.62 336.53 93.95 7 0 41 1913.1 -28.79 51.92
 100.00 22 36 57 4087.18 5.09 160.91 328.61 60.51 23 45 4 3487.2 1.13 154.37
 110.00 7 48 52 2231.29 -33.40 38.77 336.08 97.74 8 26 3 1631.3 -31.97 29.83
 110.00 23 23 23 3941.74 8.31 147.91 326.63 56.72 24 29 4 3341.7 3.87 141.63

DIFFERENTIAL CORRECTIONS
 TOE -.7035 TRA 2.5381 TC3-4.5009 BAU 1.3424 SGT 5402.9 SGR 459.6 SG3 111.1 ST 1296.4 SR 370.0 SS 379.9
 RDE .2988 RRA .1929 RC3 -.1487 FAU .01621 RRT .4338 RRF .4082 RTF .9110 CRT -.4960 CRS .5219 CST -.9979
 FDE -.2530 FRA .8645 FC3 -.6293 BSP 17435 SGB 5422.4 R23 .0118 R13 .9110 LSA 1363.9 MSA 317.9 SSA 20.8
 BDE .7644 BRA 2.5454 BC3 4.5034 FSP -368 SG1 5406.6 SG2 413.8 THA 2.13 EL1 1310.1 EL2 317.9 ALF 171.43

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 13 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC
 RL 148.70 LAL .00 LOL 172.24 VL 25.733 GAL 6.13 AZL 91.17 MCA 283.65 SMA 118.20 ECC .27790 INC 1.1671 V1 29.964
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.660 GAP 15.31 AZP 90.28 TAL 163.53 TAP 87.18 RCA 85.36 APO 151.05 V2 35.217
 RC 202.227 GL -6.02 GP -12.31 ZAL 62.65 ZAP 167.68 ETS 275.34 ZAE 133.26 ETE 191.54 ZAC 169.14 ETC 14.63 CLP-179.55

PLANETOCENTRIC CONIC
 C3 24.655 VHL 4.965 CLA 16.02 RAL 110.48 RAD 6568.0 VEL 12.084 PTH 2.16 VHP 10.050 DPA 12.14 RAP 97.06 ECC 1.4058
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 12 34 2787.82 -28.14 80.94 341.39 93.25 5 59 2 2187.8 -27.40 72.35
 90.00 21 27 35 4386.32 6.02 182.41 333.97 62.28 22 40 41 3786.3 2.26 175.75
 100.00 6 42 50 2496.75 -29.57 59.41 341.28 94.58 7 24 26 1896.8 -28.62 50.74
 100.00 22 40 1 4152.62 7.27 164.55 333.28 60.93 23 49 13 3552.6 3.34 157.96
 110.00 8 10 51 2221.34 -33.31 38.01 340.79 98.18 8 47 52 1621.3 -31.82 29.10
 110.00 23 28 29 4000.80 10.50 151.08 331.33 57.28 24 35 9 3400.8 6.11 144.73

DIFFERENTIAL CORRECTIONS
 TOE -.8811 TRA 2.8849 TC3-4.0595 BAU 1.3387 SGT 5411.2 SGR 451.7 SG3 108.9 ST 1458.8 SR 361.2 SS 406.1
 RDE .3061 RRA .2086 RC3 -.1295 FAU .01500 RRT .4200 RRF .3950 RTF .9161 CRT -.5327 CRS .5472 CST -.9987
 FDE -.2876 FRA .9139 FC3 -.5265 BSP 17512 SGB 5430.0 R23 .0088 R13 .9161 LSA 1526.8 MSA 303.0 SSA 18.9
 BDE .9328 BRA 2.8924 BC3 4.0615 FSP -362 SG1 5414.6 SG2 409.7 THA 2.02 EL1 1472.0 EL2 302.9 ALF 172.15

MID-COURSE EXECUTION ACCURACY ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 13 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 558.743

RL 148.70 LAL .00 LOL 172.24 VL 25.684 GAL 7.00 AZL 91.37 HCA 286.89 SMA 117.94 ECC .28612 INC 1.3723 V1 29.964
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.633 GAP 15.86 AZP 90.40 TAL 161.80 TAP 86.69 RCA 84.19 APO 151.69 V2 35.225
 RC 203.880 GL -6.69 GP -12.07 ZAL 59.49 ZAP 167.92 ETS 271.74 ZAE 133.36 ETE 191.32 ZAC 166.71 ETC 14.00 CLP 179.70

PLANETOCENTRIC CONIC

C3 27.471 VHL 5.241 DLA 14.89 RAL 113.65 RAD 6568.1 VEL 12.200 PTH 2.19 VHP 10.370 OPA 12.37 RAP 99.56 ECC 1.4521
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 35 49 2773.51 -28.09 79.89 346.12 93.77 6 22 3 2173.5 -27.27 71.32
 90.00 21 29 42 4454.16 8.15 186.26 338.62 62.79 22 43 56 3854.2 4.44 179.54
 100.00 7 5 13 2485.24 -29.51 58.56 345.99 95.02 7 46 38 1885.2 -28.50 49.91
 100.00 22 43 0 4217.66 9.41 168.20 337.95 61.50 23 53 17 3617.7 5.53 161.56
 110.00 8 31 25 2215.51 -33.25 37.56 345.48 98.44 9 8 21 1615.5 -31.73 28.67
 110.00 23 33 17 4060.15 12.66 154.31 336.02 57.98 24 40 57 3460.1 8.34 147.88

DIFFERENTIAL CORRECTIONS

TDE-1.0640 TRA 3.2551 TC3-3.6184 BAU 1.3295
 RDE .3150 RRA .2238 RC3 -.1106 FAU .01375
 FDE -.3204 FRA .9667 FC3 -.4334 BSP 17477
 BDE 1.1096 BRA 3.2628 BC3 3.6200 FSP -353

MID-COURSE EXECUTION ACCURACY

SGT 5412.6 SGR 442.8 SG3 106.7
 RRT .4054 RRF .3821 RTF .9212
 SGB 5430.7 R23 .0072 R13 .9212
 SG1 5415.6 SG2 404.6 THA 1.91

ORBIT DETERMINATION ACCURACY

ST 1608.0 SR 352.6 SS 430.1
 CRT -.5576 CRS .5650 CST -.9991
 LSA 1676.4 MSA 290.5 SSA 17.4
 EL1 1620.4 EL2 290.5 ALF 172.80

LAUNCH DATE MAR 13 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 563.740

RL 148.70 LAL .00 LOL 172.24 VL 25.636 GAL 7.91 AZL 91.58 HCA 290.12 SMA 117.68 ECC .29517 INC 1.5847 V1 29.964
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.606 GAP 16.46 AZP 90.55 TAL 160.11 TAP 90.24 RCA 82.95 APO 152.42 V2 35.232
 RC 205.508 GL -7.27 GP -11.86 ZAL 56.53 ZAP 168.10 ETS 267.94 ZAE 133.43 ETE 191.12 ZAC 164.29 ETC 13.55 CLP 178.93

PLANETOCENTRIC CONIC

C3 30.821 VHL 5.552 DLA 13.80 RAL 116.62 RAD 6568.2 VEL 12.337 PTH 2.22 VHP 10.719 OPA 12.54 RAP 102.04 ECC 1.5072
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 57 21 2764.19 -28.04 79.22 350.80 94.11 6 43 26 2164.2 -27.18 70.66
 90.00 21 31 50 4521.02 10.21 190.09 343.27 63.44 22 47 11 3921.0 6.56 183.31
 100.00 7 25 59 2478.39 -29.46 58.06 350.67 95.29 8 7 17 1878.4 -28.42 49.41
 100.00 22 45 53 4282.06 11.48 171.86 342.61 62.21 23 57 15 3682.1 7.67 165.14
 110.00 8 50 33 2213.74 -33.23 37.43 350.13 98.51 9 27 27 1613.7 -31.70 28.54
 110.00 23 37 48 4119.47 14.78 157.61 340.69 58.82 24 46 27 3519.5 10.54 151.07

DIFFERENTIAL CORRECTIONS

TDE-1.2600 TRA 3.6410 TC3-3.2001 BAU 1.3191
 RDE .3248 RRA .2379 RC3 -.0932 FAU .01261
 FDE -.3548 FRA 1.0202 FC3 -.3541 BSP 17537
 BDE 1.3012 BRA 3.6488 BC3 3.2015 FSP -348

MID-COURSE EXECUTION ACCURACY

SGT 5411.9 SGR 432.4 SG3 104.6
 RRT .3888 RRF .3670 RTF .9267
 SGB 5429.2 R23 .0051 R13 .9267
 SG1 5414.5 SG2 398.2 THA 1.79

ORBIT DETERMINATION ACCURACY

ST 1746.4 SR 343.7 SS 453.7
 CRT -.5790 CRS .5822 CST -.9993
 LSA 1815.5 MSA 278.4 SSA 16.2
 EL1 1758.0 EL2 278.4 ALF 173.33

LAUNCH DATE MAR 13 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 568.616

RL 148.70 LAL .00 LOL 172.24 VL 25.589 GAL 8.89 AZL 91.81 HCA 293.36 SMA 117.43 ECC .30514 INC 1.8062 V1 29.964
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.579 GAP 17.12 AZP 90.72 TAL 158.46 TAP 91.82 RCA 81.60 APO 153.26 V2 35.238
 RC 207.111 GL -7.76 GP -11.65 ZAL 53.76 ZAP 168.20 ETS 263.98 ZAE 133.48 ETE 190.93 ZAC 161.88 ETC 13.22 CLP 178.15

PLANETOCENTRIC CONIC

C3 34.797 VHL 5.899 DLA 12.78 RAL 119.38 RAD 6563.4 VEL 12.497 PTH 2.26 VHP 11.103 OPA 12.64 RAP 104.52 ECC 1.5727
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 17 13 2759.60 -28.02 78.88 355.43 94.28 7 3 13 2159.6 -27.13 70.33
 90.00 21 33 57 4586.75 12.18 193.91 347.89 64.24 22 50 23 3986.7 8.62 187.04
 100.00 7 45 10 2475.96 -29.45 57.88 355.29 95.38 8 26 26 1876.0 -28.39 49.24
 100.00 22 48 41 4345.62 13.47 175.53 347.24 63.06 24 1 6 3745.6 9.75 168.71
 110.00 9 8 18 2215.85 -33.25 37.59 354.75 98.42 9 45 14 1615.9 -31.73 28.69
 110.00 23 42 2 4178.50 16.83 160.95 345.34 59.80 24 51 41 3578.5 12.69 154.29

DIFFERENTIAL CORRECTIONS

TDE-1.4675 TRA 4.0497 TC3-2.8030 BAU 1.3044
 RDE .3360 RRA .2506 RC3 -.0770 FAU .01148
 FDE -.3892 FRA 1.0770 FC3 -.2856 BSP 17619
 BDE 1.5055 BRA 4.0575 BC3 2.8040 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5407.0 SGR 420.8 SG3 102.5
 RRT .3701 RRF .3506 RTF .9323
 SGB 5423.4 R23 .0040 R13 .9323
 SG1 5409.3 SG2 390.8 THA 1.66

ORBIT DETERMINATION ACCURACY

ST 1872.4 SR 334.9 SS 476.3
 CRT -.5970 CRS .5969 CST -.9995
 LSA 1942.5 MSA 267.2 SSA 15.1
 EL1 1883.2 EL2 267.1 ALF 173.78

LAUNCH DATE MAR 13 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 573.346

RL 148.70 LAL .00 LOL 172.24 VL 25.543 GAL 9.94 AZL 92.04 HCA 296.60 SMA 117.19 ECC .31614 INC 2.0389 V1 29.964
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.552 GAP 17.83 AZP 90.91 TAL 156.86 TAP 93.46 RCA 80.14 APO 154.24 V2 35.243
 RC 208.690 GL -8.19 GP -11.47 ZAL 51.19 ZAP 168.23 ETS 259.87 ZAE 133.50 ETE 190.74 ZAC 159.49 ETC 12.96 CLP 177.35

PLANETOCENTRIC CONIC

C3 39.515 VHL 6.286 DLA 11.83 RAL 121.93 RAD 6568.5 VEL 12.684 PTH 2.30 VHP 11.526 OPA 12.69 RAP 106.98 ECC 1.6503
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 35 29 2759.42 -28.02 78.87 359.99 94.28 7 21 29 2159.4 -27.13 70.31
 90.00 21 36 2 4651.18 14.06 197.71 352.49 65.16 22 53 33 4051.2 10.59 190.75
 100.00 8 2 51 2477.70 -29.46 58.01 359.85 95.31 8 44 8 1877.7 -28.41 49.36
 100.00 22 51 22 4408.13 15.36 179.20 351.85 64.04 24 4 50 3808.1 11.75 172.27
 110.00 9 24 40 2221.64 -33.31 38.03 359.32 98.17 10 1 42 1621.6 -31.82 29.12
 110.00 23 46 1 4236.95 18.80 164.34 349.97 60.91 24 56 38 3637.0 14.78 157.53

DIFFERENTIAL CORRECTIONS

TDE-1.68 0 TRA 4.4842 TC3-2.4305 BAU 1.2844
 RDE .3487 RRA .2617 RC3 -.0623 FAU .01036
 FDE -.4236 FRA 1.1372 FC3 -.2269 BSP 17652
 BDE 1.7197 BRA 4.4919 BC3 2.4313 FSP -337

MID-COURSE EXECUTION ACCURACY

SGT 5397.4 SGR 408.1 SG3 100.5
 RRT .3492 RRF .3324 RTF .9380
 SGB 5412.8 R23 .0033 R13 .9380
 SG1 5399.3 SG2 382.3 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 1983.4 SR 326.2 SS 498.0
 CRT -.6123 CRS .6099 CST -.9996
 LSA 2054.8 MSA 256.7 SSA 14.1
 EL1 1993.6 EL2 256.6 ALF 174.15

LAUNCH DATE MAR 13 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 577.903

RL 148.70 LAL .00 LOL 172.24 VL 25.498 GAL 11.06 AZL 92.29 MCA 299.84 SMA 116.95 ECC .32833 INC 2.2852 V1 29.964
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.525 GAP 18.62 AZP 91.14 TAL 155.31 TAP 95.15 RCA 78.55 APO 155.35 V2 35.248
 RC 210.244 GL -8.54 GP -11.30 ZAL 48.81 ZAP 168.18 ETS 255.66 ZAE 133.50 ETE 190.55 ZAC 157.13 ETC 12.75 CLP 176.52

PLANETOCENTRIC CONIC

C3 45.117 VHL 6.717 OLA 10.95 RAL 124.28 RAD 6568.7 VEL 12.903 PTH 2.35 VHP 11.994 DPA 12.68 RAP 109.41 ECC 1.7425
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 52 14 2763.31 -28.04 79.15 4.49 94.14 7 38 17 2163.3 -27.17 70.59
 90.00 21 38 4 4714.14 15.82 201.49 357.04 66.21 22 56 38 4114.1 12.47 194.41
 100.00 8 19 3 2483.28 -29.49 58.42 4.35 95.10 9 0 27 1883.3 -28.48 49.77
 100.00 22 53 56 4469.40 17.15 182.87 356.42 65.14 24 8 25 3869.4 13.66 175.82
 110.00 9 39 44 2230.85 -33.40 38.74 3.84 97.76 10 16 54 1630.8 -31.96 29.80
 110.00 23 49 45 4294.60 20.67 167.76 354.57 62.15 25 1 19 3694.6 16.78 160.80

DIFFERENTIAL CORRECTIONS

TDE -1.9074 TRA 4.9507 TC3-2.0822 BAU 1.2563
 RDE .3631 RRA .2709 RC3 -.0491 FAU .00919
 FDE -.4575 FRA 1.2027 FC3 -.1764 BSP 17578
 BDE 1.9417 BRA 4.9581 BC3 2.0828 FSP -329

MID-COURSE EXECUTION ACCURACY

SGT 5382.6 SGR 394.6 SG3 98.5
 RRT .3262 RRF .3126 RTF .9437
 SGB 5397.0 R23 .0035 R13 .9437
 SG1 5384.1 SG2 372.9 THA 1.38

ORBIT DETERMINATION ACCURACY

ST 2078.3 SR 317.7 SS 518.8
 CRT -.6251 CRS .6208 CST -.9996
 LSA 2151.3 MSA 247.0 SSA 13.3
 EL1 2087.9 EL2 246.9 ALF 174.46

LAUNCH DATE MAR 13 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC

DISTANCE 582.250

RL 148.70 LAL .00 LOL 172.24 VL 25.455 GAL 12.27 AZL 92.55 MCA 303.08 SMA 116.72 ECC .34185 INC 2.5481 V1 29.964
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.499 GAP 19.49 AZP 91.39 TAL 153.83 TAP 96.90 RCA 76.82 APO 156.63 V2 35.252
 RC 211.773 GL -8.84 GP -11.15 ZAL 46.61 ZAP 168.05 ETS 251.38 ZAE 133.45 ETE 190.36 ZAC 154.80 ETC 12.59 CLP 175.66

PLANETOCENTRIC CONIC

C3 51.784 VHL 7.196 OLA 10.13 RAL 126.44 RAD 6568.9 VEL 13.158 PTH 2.40 VHP 12.513 DPA 12.62 RAP 111.81 ECC 1.8522
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 7 30 2770.91 -28.07 79.70 8.90 93.87 7 53 41 2170.9 -27.24 71.14
 90.00 21 40 3 4775.44 17.47 205.24 1.54 67.35 22 59 38 4175.4 14.25 198.04
 100.00 8 33 51 2492.38 -29.55 59.09 8.77 94.75 9 15 24 1892.4 -28.58 50.42
 100.00 22 56 23 4529.20 18.83 186.52 .93 66.34 24 11 52 3929.2 15.47 179.34
 110.00 9 53 29 2243.18 -33.51 39.68 8.29 97.21 10 30 53 1643.2 -32.15 30.72
 110.00 23 53 14 4351.17 22.43 171.21 359.13 63.50 25 5 45 3751.2 18.69 164.07

DIFFERENTIAL CORRECTIONS

TDE -2.1484 TRA 5.4438 TC3-1.7668 BAU 1.2235
 RDE .3790 RRA .2772 RC3 -.0377 FAU .00808
 FDE -.4938 FRA 1.2716 FC3 -.1350 BSP 17595
 BDE 2.1816 BRA 5.4508 BC3 1.7672 FSP -323

MID-COURSE EXECUTION ACCURACY

SGT 5364.6 SGR 379.8 SG3 96.6
 RRT .2990 RRF .2885 RTF .9495
 SGB 5378.0 R23 .0035 R13 .9495
 SG1 5365.8 SG2 362.4 THA 1.22

ORBIT DETERMINATION ACCURACY

ST 2162.6 SR 309.1 SS 540.3
 CRT -.6389 CRS .6333 CST -.9997
 LSA 2237.8 MSA 237.0 SSA 12.5
 EL1 2171.7 EL2 236.8 ALF 174.72

LAUNCH DATE MAR 13 1969

FLIGHT TIME 202.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC

DISTANCE 586.341

RL 148.70 LAL .00 LOL 172.24 VL 25.412 GAL 13.59 AZL 92.83 MCA 306.32 SMA 116.50 ECC .35690 INC 2.8312 V1 29.964
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.472 GAP 20.45 AZP 91.68 TAL 152.42 TAP 98.73 RCA 74.92 APO 158.08 V2 35.255
 RC 213.276 GL -9.08 GP -11.00 ZAL 44.61 ZAP 167.83 ETS 247.07 ZAE 133.37 ETE 190.17 ZAC 152.50 ETC 12.45 CLP 174.76

PLANETOCENTRIC CONIC

C3 59.742 VHL 7.729 OLA 9.39 RAL 128.42 RAD 6569.1 VEL 13.457 PTH 2.46 VHP 13.091 DPA 12.51 RAP 114.18 ECC 1.9832
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 21 20 2781.86 -28.12 80.50 13.21 93.47 8 7 42 2181.9 -27.34 71.92
 90.00 21 41 58 4834.87 18.99 208.94 5.97 68.59 23 2 33 4234.9 15.91 201.61
 100.00 8 47 17 2504.66 -29.61 60.00 13.10 94.27 9 29 2 1904.7 -28.71 51.31
 100.00 22 58 42 4587.30 20.37 190.14 5.38 67.64 24 15 9 3987.3 17.16 182.82
 110.00 10 6 0 2258.32 -33.63 40.85 12.65 96.53 10 43 39 1658.3 -32.36 31.84
 110.00 0 0 25 4406.40 24.07 174.66 3.63 64.96 1 13 52 3806.4 20.49 167.34

DIFFERENTIAL CORRECTIONS

TDE -2.4029 TRA 5.9719 TC3-1.4795 BAU 1.1819
 RDE .3966 RRA .2804 RC3 -.0280 FAU .00693
 FDE -.5313 FRA 1.3463 FC3 -.1004 BSP 17606
 BDE 2.4354 BRA 5.9785 BC3 1.4798 FSP -318

MID-COURSE EXECUTION ACCURACY

SGT 5342.0 SGR 364.2 SG3 94.7
 RRT .2675 RRF .2605 RTF .9552
 SGB 5354.4 R23 .0040 R13 .9552
 SG1 5342.9 SG2 350.9 THA 1.05

ORBIT DETERMINATION ACCURACY

ST 2233.7 SR 300.7 SS 562.4
 CRT -.6528 CRS .6461 CST -.9997
 LSA 2311.8 MSA 227.1 SSA 11.8
 EL1 2242.4 EL2 226.9 ALF 174.93

LAUNCH DATE MAR 13 1969

FLIGHT TIME 204.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC

DISTANCE 590.119

RL 148.70 LAL .00 LOL 172.24 VL 25.372 GAL 15.02 AZL 93.14 MCA 309.55 SMA 116.29 ECC .37370 INC 3.1389 V1 29.964
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.446 GAP 21.53 AZP 92.00 TAL 151.11 TAP 100.66 RCA 72.83 APO 159.75 V2 35.258
 RC 214.754 GL -9.28 GP -10.87 ZAL 42.78 ZAP 167.51 ETS 242.77 ZAE 133.23 ETE 189.98 ZAC 150.25 ETC 12.35 CLP 173.82

PLANETOCENTRIC CONIC

C3 69.280 VHL 8.323 OLA 8.72 RAL 130.21 RAD 6569.3 VEL 13.807 PTH 2.52 VHP 13.739 DPA 12.36 RAP 116.49 ECC 2.1402
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 33 48 2795.80 -28.17 81.52 17.41 92.96 8 20 24 2195.8 -27.47 72.92
 90.00 21 43 48 4892.16 20.37 212.57 10.30 69.89 23 5 20 4292.2 17.45 205.11
 100.00 8 59 23 2519.76 -29.68 61.12 17.31 93.69 9 41 23 1919.8 -28.86 52.41
 100.00 23 0 54 4643.42 21.79 193.71 9.73 69.01 24 18 17 4043.4 18.74 186.24
 110.00 10 17 18 2275.95 -33.76 42.21 16.92 95.73 10 55 14 1675.9 -32.60 33.17
 110.00 0 3 25 4460.00 25.57 178.11 8.05 66.50 1 17 45 3860.0 22.17 170.60

DIFFERENTIAL CORRECTIONS

TDE -2.6729 TRA 6.5398 TC3-1.2197 BAU 1.1299
 RDE .4162 RRA .2797 RC3 -.0198 FAU .00573
 FDE -.5705 FRA 1.4278 FC3 -.0716 BSP 17601
 BDE 2.7051 BRA 6.5458 BC3 1.2199 FSP -312

MID-COURSE EXECUTION ACCURACY

SGT 5315.1 SGR 348.0 SG3 92.9
 RRT .2307 RRF .2272 RTF .9608
 SGB 5326.5 R23 .0048 R13 .9608
 SG1 5315.7 SG2 338.6 THA .87

ORBIT DETERMINATION ACCURACY

ST 2292.5 SR 292.4 SS 585.4
 CRT -.6672 CRS .6593 CST -.9998
 LSA 2374.2 MSA 217.3 SSA 11.1
 EL1 2300.9 EL2 217.0 ALF 175.09

LAUNCH DATE MAR 13 1969

FLIGHT TIME 206.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC

DISTANCE 593.510

RL 148.70 LAL .00 LOL 172.24 VL 25.332 GAL 16.60 AZL 93.48 HCA 312.79 SMA 116.09 ECC .39253 INC 3.4768 V1 29.964
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.421 GAP 22.74 AZP 92.36 TAL 149.91 TAP 102.70 RCA 70.52 APO 161.66 V2 35.259
 RC 216.204 GL -9.43 GP -10.74 ZAL 41.15 ZAP 167.10 ETS 238.50 ZAE 133.03 ETE 189.78 ZAC 148.05 ETC 12.27 CLP 172.82

PLANETOCENTRIC CONIC

C3 80.774 VHL 8.987 DLA 8.13 RAL 131.82 RAD 6569.6 VEL 14.217 PTH 2.59 VHP 14.467 OPA 12.18 RAP 118.75 ECC 2.3293
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 44 54 2812.39 -28.23 82.73 21.47 92.36 8 31 47 2212.4 -27.60 74.12
 90.00 21 45 33 4947.03 21.61 216.11 14.52 71.25 23 8 0 4347.0 18.85 208.53
 100.00 9 10 10 2537.37 -29.75 62.42 21.39 93.01 9 52 28 1937.4 -29.02 53.69
 100.00 23 2 58 4697.28 23.06 197.21 13.97 70.43 24 21 15 4097.3 20.18 189.60
 110.00 10 27 23 2295.76 -33.88 43.74 21.06 94.83 11 5 39 1695.8 -32.84 34.66
 110.00 0 6 11 4511.65 26.92 181.51 12.36 68.10 1 21 22 3911.7 23.71 173.82

DIFFERENTIAL CORRECTIONS

TDE-2.9554 TRA 7.1580 TC3 -.9835 BAU 1.0622
 RDE .4383 RRA .2743 RC3 -.0131 FAU .00439
 FDE -.6109 FRA 1.5182 FC3 -.0470 BSP 17460
 BDE 2.9877 BRA 7.1632 BC3 .9836 FSP -304

MID-COURSE EXECUTION ACCURACY

SGT 5284.3 SGR 331.4 SG3 91.2
 RRT .1881 RRF .1883 RTF .9661
 SGB 5294.6 R23 .0060 R13 .9661
 SGI 5284.6 SG2 325.5 THA .68

ORBIT DETERMINATION ACCURACY

ST 2337.7 SR 284.4 SS 609.4
 CRT -.6815 CRS .6727 CST -.9998
 LSA 2423.6 MSA 207.7 SSA 10.5
 EL1 2345.8 EL2 207.4 ALF 175.22

LAUNCH DATE MAR 13 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 596.418

RL 148.70 LAL .00 LOL 172.24 VL 25.295 GAL 18.33 AZL 93.85 HCA 316.03 SMA 115.90 ECC .41368 INC 3.8521 V1 29.964
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.395 GAP 24.10 AZP 92.77 TAL 148.84 TAP 104.87 RCA 67.95 APO 163.84 V2 35.260
 RC 217.629 GL -9.54 GP -10.62 ZAL 39.70 ZAP 166.58 ETS 234.29 ZAE 132.77 ETE 189.56 ZAC 145.92 ETC 12.20 CLP 171.75

PLANETOCENTRIC CONIC

C3 94.709 VHL 9.732 DLA 7.61 RAL 133.25 RAD 6569.8 VEL 14.699 PTH 2.66 VHP 15.290 OPA 11.96 RAP 120.93 ECC 2.5587
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 54 39 2831.30 -28.27 84.11 25.38 91.67 8 41 50 2231.3 -27.74 75.49
 90.00 21 47 12 4999.14 22.71 219.54 18.57 72.62 23 10 31 4399.1 20.12 211.82
 100.00 9 19 39 2557.15 -29.82 63.89 25.32 92.24 10 2 16 1957.1 -29.19 55.14
 100.00 23 4 53 4748.52 24.18 200.60 18.06 71.87 24 24 2 4148.5 21.48 192.84
 110.00 10 36 15 2317.44 -33.99 45.43 25.06 93.84 11 14 52 1717.4 -33.09 36.30
 110.00 0 8 43 4561.00 28.13 184.84 16.53 69.73 1 24 44 3961.0 25.11 176.96

DIFFERENTIAL CORRECTIONS

TDE-3.2636 TRA 7.8212 TC3 -.7754 BAU .9818
 RDE .4629 RRA .2630 RC3 -.0079 FAU .00297
 FDE -.6555 FRA 1.6165 FC3 -.0272 BSP 17448
 BDE 3.2963 BRA 7.8256 BC3 .7754 FSP -300

MID-COURSE EXECUTION ACCURACY

SGT 5248.9 SGR 314.5 SG3 89.5
 RRT .1365 RRF .1401 RTF .9712
 SGB 5258.3 R23 .0071 R13 .9712
 SGI 5249.1 SG2 311.6 THA .47

ORBIT DETERMINATION ACCURACY

ST 2374.1 SR 276.5 SS 636.2
 CRT -.6981 CRS .6884 CST -.9998
 LSA 2465.4 MSA 197.7 SSA 9.9
 EL1 2382.0 EL2 197.3 ALF 175.32

LAUNCH DATE MAR 13 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 598.718

RL 148.70 LAL .00 LOL 172.24 VL 25.259 GAL 20.26 AZL 94.27 HCA 319.26 SMA 115.71 ECC .43755 INC 4.2741 V1 29.964
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.371 GAP 25.65 AZP 93.24 TAL 147.94 TAP 107.21 RCA 65.08 APO 166.35 V2 35.261
 RC 219.026 GL -9.62 GP -10.51 ZAL 38.44 ZAP 165.93 ETS 230.15 ZAE 132.42 ETE 189.33 ZAC 143.87 ETC 12.16 CLP 170.60

PLANETOCENTRIC CONIC

C3 111.727 VHL 10.570 DLA 7.17 RAL 134.49 RAD 6570.1 VEL 15.266 PTH 2.74 VHP 16.226 OPA 11.71 RAP 123.03 ECC 2.8387
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 3 0 2852.27 -28.30 85.64 29.09 90.90 8 50 32 2252.3 -27.88 77.00
 90.00 21 48 45 5048.09 23.67 222.81 22.43 73.99 23 12 53 4448.1 21.25 214.97
 100.00 9 27 46 2578.84 -29.86 65.50 29.05 91.39 10 10 45 1978.8 -29.35 56.73
 100.00 23 6 39 4796.75 25.17 203.84 21.95 73.31 24 26 36 4196.7 22.64 195.96
 110.00 10 43 52 2340.71 -34.08 47.24 28.87 92.77 11 22 52 1740.7 -33.32 38.08
 110.00 0 10 59 4607.64 29.19 188.05 20.51 71.37 1 27 47 4007.6 26.37 180.01

DIFFERENTIAL CORRECTIONS

TDE-3.5940 TRA 8.5431 TC3 -.5900 BAU .8813
 RDE .4907 RRA .2447 RC3 -.0040 FAU .00136
 FDE -.7036 FRA 1.7258 FC3 -.0106 BSP 17411
 BDE 3.6274 BRA 8.5466 BC3 .5900 FSP -295

MID-COURSE EXECUTION ACCURACY

SGT 5209.1 SGR 297.8 SG3 87.9
 RRT .0750 RRF .0818 RTF .9759
 SGB 5217.6 R23 .0084 R13 .9759
 SGI 5209.2 SG2 297.0 THA .25

ORBIT DETERMINATION ACCURACY

ST 2399.4 SR 269.0 SS 665.7
 CRT -.7158 CRS .7054 CST -.9998
 LSA 2497.5 MSA 187.7 SSA 9.2
 EL1 2407.2 EL2 187.2 ALF 175.38

LAUNCH DATE MAR 13 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 11 1969

HELIOCENTRIC CONIC

DISTANCE 600.246

RL 148.70 LAL .00 LOL 172.24 VL 25.226 GAL 22.42 AZL 94.76 HCA 322.50 SMA 115.55 ECC .46455 INC 4.7554 V1 29.964
 RP 107.47 LAP 2.89 LOP 134.84 VP 36.348 GAP 27.41 AZP 93.78 TAL 147.24 TAP 109.74 RCA 61.87 APO 169.23 V2 35.260
 RC 220.396 GL -9.66 GP -10.40 ZAL 37.38 ZAP 165.15 ETS 226.12 ZAE 131.96 ETE 189.08 ZAC 141.91 ETC 12.14 CLP 169.35

PLANETOCENTRIC CONIC

C3 132.676 VHL 11.518 DLA 6.82 RAL 135.53 RAD 6570.4 VEL 15.938 PTH 2.82 VHP 17.296 OPA 11.46 RAP 125.02 ECC 3.1835
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 9 54 2875.05 -28.32 87.31 32.58 90.06 8 57 49 2275.0 -28.01 78.66
 90.00 21 50 10 5093.42 24.49 225.88 26.05 75.32 23 15 4 4493.4 22.23 217.93
 100.00 9 34 29 2602.20 -29.89 67.23 32.57 90.48 10 17 51 2002.2 -29.50 58.45
 100.00 23 8 16 4841.50 26.01 206.90 25.60 74.72 24 28 57 4241.5 23.65 188.89
 110.00 10 50 10 2365.35 -34.15 49.16 32.48 91.64 11 29 36 1765.3 -33.54 39.97
 110.00 0 13 0 4651.12 30.10 191.11 24.26 72.97 1 30 31 4051.1 27.47 182.91

DIFFERENTIAL CORRECTIONS

TDE-3.9497 TRA 9.3311 TC3 -.4259 BAU .7554
 RDE .5224 RRA .2176 RC3 -.0014 FAU .00052
 FDE -.7561 FRA 1.8480 FC3 .0034 BSP 17345
 BDE 3.9841 BRA 9.3337 BC3 .4259 FSP -290

MID-COURSE EXECUTION ACCURACY

SGT 5164.7 SGR 281.8 SG3 86.3
 RRT .0016 RRF .0112 RTF .9802
 SGB 5172.4 R23 .0097 R13 .9802
 SGI 5164.7 SG2 281.8 THA .01

ORBIT DETERMINATION ACCURACY

ST 2414.0 SR 261.9 SS 698.7
 CRT -.7349 CRS .7240 CST -.9998
 LSA 2520.4 MSA 177.7 SSA 8.6
 EL1 2421.7 EL2 177.1 ALF 175.42

LAUNCH DATE MAR 13 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 13 1969

HELIOCENTRIC CONIC

DISTANCE 600.786

RL 148.70 LAL .00 LOL 172.24 VL 25.196 GAL 24.85 AZL 95.31 MCA 325.73 SMA 115.40 ECC .49521 INC 5.3132 V1 29.964
 RP 107.48 LAP 2.99 LOP 138.09 VP 36.326 GAP 29.44 AZP 94.39 TAL 146.78 TAP 112.51 RCA 58.25 APO 172.54 V2 35.259
 RC 221.738 GL -9.67 GP -10.29 ZAL 36.54 ZAP 164.22 ETS 222.19 ZAE 131.38 ETE 188.80 ZAC 140.08 ETC 12.13 CLP 167.97

PLANETOCENTRIC CONIC

C3 158.697 VML 12.997 DLA 6.55 RAL 136.36 RAD 6570.7 VEL 16.734 PTH 2.90 VMP 18.527 DPA 11.20 RAP 126.88 ECC 3.6117
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 15 14 2899.49 -28.31 89.10 35.81 89.17 9 3 34 2299.5 -28.12 80.44
 90.00 21 51 28 5134.60 25.17 228.70 29.37 76.58 23 17 3 4534.6 -23.07 220.66
 100.00 9 39 42 2627.07 -29.89 69.08 35.83 89.50 10 23 29 2027.1 -29.64 60.29
 100.00 23 9 41 4882.26 26.71 209.73 28.95 76.05 24 31 4 4282.3 24.52 201.61
 110.00 10 55 5 2391.16 -34.18 51.17 35.84 90.45 11 34 56 1791.2 -33.74 41.96
 110.00 0 14 44 4690.93 30.86 193.97 27.71 74.50 1 32 55 4090.9 28.42 185.61

DIFFERENTIAL CORRECTIONS

TDE-4.3283 TRA10.1987 TC3 -.2804 BAU .5948
 RDE .5590 RRA .1798 RC3 -.0000 FAU-.00285
 FDE -.8129 FRA 1.9864 FC3 .0155 BSP 17145
 BDE 4.3643 BRA10.2003 BC3 .2804 FSP -283

MID-COURSE EXECUTION ACCURACY

SGT 5116.1 SGR 267.2 SG3 84.9
 RRT -.0848 RRF -.0728 RTF .9841
 SGB 5123.1 R23 -.0109 R13 -.9841
 SG1 5116.2 SG2 266.3 THA 179.75

ORBIT DETERMINATION ACCURACY

ST 2416.2 SR 255.4 SS 735.5
 CRT -.7549 CRS .7434 CST -.9998
 LSA 2533.0 MSA 167.8 SSA 8.1
 EL1 2423.9 EL2 167.0 ALF 175.42

LAUNCH DATE MAR 13 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 15 1969

HELIOCENTRIC CONIC

DISTANCE 600.049

RL 148.70 LAL .00 LOL 172.24 VL 25.170 GAL 27.62 AZL 95.97 MCA 328.96 SMA 115.26 ECC .53007 INC 5.9716 V1 29.964
 RP 107.48 LAP 3.08 LOP 141.34 VP 36.305 GAP 31.80 AZP 95.12 TAL 146.63 TAP 115.59 RCA 54.16 APO 176.36 V2 35.257
 RC 223.054 GL -9.66 GP -10.18 ZAL 35.93 ZAP 163.11 ETS 218.36 ZAE 130.65 ETE 188.49 ZAC 138.39 ETC 12.15 CLP 166.44

PLANETOCENTRIC CONIC

C3 191.330 VML 13.832 DLA 6.39 RAL 136.96 RAD 6571.0 VEL 17.682 PTH 2.98 VMP 19.950 DPA 10.96 RAP 128.59 ECC 4.1488
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 18 53 2925.55 -28.27 91.00 38.74 88.21 9 7 39 2325.5 -28.21 82.34
 90.00 21 52 36 5171.01 25.72 231.23 32.33 77.73 23 18 47 4571.0 23.77 223.10
 100.00 9 43 16 2653.39 -29.86 71.04 38.79 88.48 10 27 29 2053.4 -29.75 62.24
 100.00 23 10 54 4918.40 27.27 212.27 31.95 77.27 24 32 53 4318.4 25.25 204.05
 110.00 10 58 28 2418.05 -34.17 53.28 38.90 89.20 11 38 46 1818.1 -33.91 44.04
 110.00 0 16 8 4726.50 31.48 196.55 30.80 75.92 1 34 54 4126.5 29.22 188.07

DIFFERENTIAL CORRECTIONS

TDE-4.7440 TRA11.1421 TC3 -.1551 BAU .3968
 RDE .6014 RRA .1287 RC3 .0003 FAU-.00565
 FDE -.8772 FRA 2.1410 FC3 .0255 BSP 17080
 BDE 4.7820 BRA11.1429 BC3 .1551 FSP -280

MID-COURSE EXECUTION ACCURACY

SGT 5061.0 SGR 254.8 SG3 83.5
 RRT -.1867 RRF -.1730 RTF .9874
 SGB 5067.4 R23 -.0120 R13 -.9874
 SG1 5061.2 SG2 250.3 THA 179.46

ORBIT DETERMINATION ACCURACY

ST 2408.9 SR 249.6 SS 778.0
 CRT -.7768 CRS .7652 CST -.9998
 LSA 2538.8 MSA 157.7 SSA 7.5
 EL1 2416.7 EL2 156.7 ALF 175.38

LAUNCH DATE MAR 13 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 17 1969

HELIOCENTRIC CONIC

DISTANCE 597.655

RL 148.70 LAL .00 LOL 172.24 VL 25.148 GAL 30.78 AZL 96.77 MCA 332.18 SMA 115.15 ECC .56975 INC 6.7660 V1 29.964
 RP 107.49 LAP 3.15 LOP 144.59 VP 36.287 GAP 34.55 AZP 95.99 TAL 146.85 TAP 119.03 RCA 49.54 APO 180.76 V2 35.254
 RC 224.343 GL -9.61 GP -10.06 ZAL 35.60 ZAP 161.78 ETS 214.65 ZAE 129.73 ETE 188.14 ZAC 136.89 ETC 12.18 CLP 164.72

PLANETOCENTRIC CONIC

C3 232.666 VML 15.253 DLA 6.34 RAL 137.30 RAD 6571.3 VEL 18.814 PTH 3.07 VMP 21.607 DPA 10.75 RAP 130.11 ECC 4.8291
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 20 37 2953.27 -28.19 93.03 41.31 87.20 9 9 50 2353.3 -28.28 84.36
 90.00 21 53 33 5201.94 26.15 233.39 34.86 78.73 23 20 15 4601.9 24.33 225.19
 100.00 9 44 58 2681.19 -29.79 73.10 41.40 87.39 10 29 39 2081.2 -29.83 64.30
 100.00 23 11 53 4949.23 27.72 214.45 34.51 78.33 24 34 22 4349.2 25.83 206.16
 110.00 11 0 7 2446.04 -34.13 55.46 41.61 87.91 11 40 53 1846.0 -34.04 46.22
 110.00 0 17 10 4757.17 31.96 198.81 33.44 77.18 1 36 27 4157.2 29.87 190.23

DIFFERENTIAL CORRECTIONS

TDE-5.1898 TRA12.1756 TC3 -.0466 BAU .1451
 RDE .6514 RRA .0610 RC3 -.0004 FAU-.00920
 FDE -.9486 FRA 2.3165 FC3 .0342 BSP 16968
 BDE 5.2306 BRA12.1757 BC3 .0466 FSP -276

MID-COURSE EXECUTION ACCURACY

SGT 4999.5 SGR 245.8 SG3 82.2
 RRT -.3017 RRF -.2872 RTF .9903
 SGB 5005.6 R23 -.0129 R13 -.9903
 SG1 5000.1 SG2 234.3 THA 179.15

ORBIT DETERMINATION ACCURACY

ST 2388.7 SR 244.8 SS 826.4
 CRT -.7994 CRS .7878 CST -.9998
 LSA 2535.2 MSA 147.8 SSA 6.9
 EL1 2396.8 EL2 146.5 ALF 175.30

LAUNCH DATE MAR 13 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 19 1969

HELIOCENTRIC CONIC

DISTANCE 593.111

RL 148.70 LAL .00 LOL 172.24 VL 25.131 GAL 34.44 AZL 97.75 MCA 335.40 SMA 115.07 ECC .61479 INC 7.7499 V1 29.964
 RP 107.50 LAP 3.22 LOP 147.84 VP 36.272 GAP 37.78 AZP 97.05 TAL 147.53 TAP 122.93 RCA 44.32 APO 185.81 V2 35.250
 RC 225.606 GL -9.52 GP -9.92 ZAL 35.57 ZAP 160.19 ETS 211.06 ZAE 128.58 ETE 187.74 ZAC 135.61 ETC 12.25 CLP 162.77

PLANETOCENTRIC CONIC

C3 285.543 VML 16.898 DLA 6.42 RAL 137.33 RAD 6571.7 VEL 20.171 PTH 3.15 VMP 23.545 DPA 10.59 RAP 131.41 ECC 5.6993
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 20 9 2982.89 -28.07 95.19 43.48 86.12 9 9 52 2382.9 -28.31 86.53
 90.00 21 54 18 5226.54 26.46 235.12 36.88 79.54 23 21 24 4626.5 24.75 226.87
 100.00 9 44 32 2710.68 -29.68 75.29 43.60 86.25 10 29 43 2110.7 -29.88 66.49
 100.00 23 12 35 4973.98 28.05 216.22 36.55 79.21 24 35 29 4374.0 26.27 207.86
 110.00 10 59 46 2475.25 -34.03 57.74 43.92 86.57 11 41 1 1875.2 -34.13 48.49
 110.00 0 17 47 4782.18 32.32 200.67 35.56 78.22 1 37 29 4182.2 30.36 192.01

DIFFERENTIAL CORRECTIONS

TDE-5.6643 TRA13.3002 TC3 .0459 BAU .1756
 RDE .7106 RRA -.0271 RC3 -.0019 FAU-.01380
 FDE -1.0280 FRA 2.5156 FC3 .0418 BSP 16817
 BDE 5.7087 BRA13.3002 BC3 .0460 FSP -273

MID-COURSE EXECUTION ACCURACY

SGT 4930.2 SGR 241.2 SG3 81.0
 RRT -.4252 RRF -.4107 RTF .9927
 SGB 4936.1 R23 -.0136 R13 -.9927
 SG1 4931.3 SG2 218.3 THA 178.81

ORBIT DETERMINATION ACCURACY

ST 2354.2 SR 241.0 SS 881.6
 CRT -.8224 CRS .8111 CST -.9998
 LSA 2521.6 MSA 138.1 SSA 6.4
 EL1 2362.5 EL2 136.6 ALF 175.17

LAUNCH DATE MAR 14 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 23 1969

HELIOCENTRIC CONIC

DISTANCE 210.561

RL 148.75 LAL .00 LOL 173.24 VL 29.744 GAL -15.39 AZL 90.77 HCA 96.19 SMA 147.50 ECC .26549 INC .7703 V1 29.955
 RP 108.76 LAP -.77 LOP 269.43 VP 39.253 GAP -2.29 AZP 89.92 TAL 252.86 TAP 349.04 RCA 108.34 APO 186.66 V2 34.844
 RC 74.919 GL -2.61 GP 26.54 ZAL 170.94 ZAP 70.55 ETS 351.96 ZAE 155.12 ETE 87.14 ZAC 105.60 ETC 156.99 CLP -68.15

PLANETOCENTRIC CONIC

C3 71.726 VHL 8.469 DLA -1.63 RAL 2.80 RAD 6569.4 VEL 13.895 PTH 2.54 VHP 5.190 OPA 29.76 RAP 8.78 ECC 2.1804
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 19 41 2479.60 -24.99 58.99 245.72 103.76 1 1 0 1879.6 -22.85 50.97
 90.00 11 53 32 5224.74 26.44 234.99 247.13 79.48 13 20 37 4624.7 24.72 226.75
 100.00 1 40 16 2219.66 -26.39 39.48 245.33 104.57 2 17 16 1619.7 -24.13 31.41
 100.00 13 15 38 4959.91 27.86 215.21 246.82 78.71 14 38 18 4359.9 26.02 206.89
 110.00 2 46 46 2011.48 -30.18 22.47 244.12 106.86 3 20 18 1411.5 -27.58 14.25
 110.00 14 25 37 4740.85 31.71 197.61 245.85 76.50 15 44 38 4140.9 29.53 189.08

DIFFERENTIAL CORRECTIONS

TOE -.3435 TRA -.7638 TC3 -.0480 BAU .2221
 RDE -.3333 RRA .4429 RC3 .2266 FAU .09225
 FDE-1.1568 FRA-1.0563 FC3-1.1135 BSP 1439
 BOE .4786 BRA .8829 BC3 .2316 FSP -543

MID-COURSE EXECUTION ACCURACY

SGT 572.6 SGR 536.6 SG3 186.9
 RRT -.4354 RRF -.6561 RTF .5690
 SGB 784.8 R23 .1299 R13 -.7160
 SG1 665.7 SG2 415.5 THA 139.24

ORBIT DETERMINATION ACCURACY

ST 279.4 SR 243.0 SS 364.8
 CRT .5659 CRS -.7918 CST -.9472
 LSA 490.5 MSA 170.9 SSA 19.8
 EL1 328.9 EL2 170.2 ALF 38.05

LAUNCH DATE MAR 14 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 25 1969

HELIOCENTRIC CONIC

DISTANCE 217.018

RL 148.75 LAL .00 LOL 173.24 VL 29.715 GAL -15.21 AZL 90.96 HCA 99.35 SMA 147.22 ECC .26257 INC .9602 V1 29.955
 RP 108.78 LAP -.95 LOP 272.59 VP 39.223 GAP -1.67 AZP 89.84 TAL 252.60 TAP 351.95 RCA 108.56 APO 185.87 V2 34.835
 RC 77.194 GL -3.29 GP 27.48 ZAL 170.60 ZAP 75.22 ETS 354.14 ZAE 153.97 ETE 94.81 ZAC 103.62 ETC 157.76 CLP -73.29

PLANETOCENTRIC CONIC

C3 70.218 VHL 8.380 DLA -2.20 RAL 3.19 RAD 6569.4 VEL 13.841 PTH 2.53 VHP 5.063 OPA 29.77 RAP 6.49 ECC 2.1556
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 25 29 2456.97 -24.62 57.44 245.53 104.45 1 6 26 1857.0 -22.39 49.48
 90.00 11 50 54 5237.34 26.60 235.88 247.41 79.90 13 18 11 4637.3 24.93 227.61
 100.00 1 45 48 2197.88 -26.01 37.98 245.12 105.27 2 22 26 1597.9 -23.66 29.97
 100.00 13 13 16 4971.67 28.02 216.05 247.12 79.13 14 36 7 4371.7 26.23 207.70
 110.00 2 51 41 1991.61 -29.78 21.06 243.86 107.61 3 24 53 1391.6 -27.09 12.91
 110.00 14 23 51 4750.71 31.86 198.34 246.18 76.91 15 43 2 4150.7 29.73 189.77

DIFFERENTIAL CORRECTIONS

TDE -.3792 TRA -.8212 TC3 -.0878 BAU .2449
 RDE -.3086 RRA .4448 RC3 .2456 FAU .09600
 FDE-1.2382 FRA-1.0766 FC3-1.1836 BSP 1676
 BOE .4889 BRA .9340 BC3 .2608 FSP -581

MID-COURSE EXECUTION ACCURACY

SGT 636.1 SGR 553.7 SG3 196.9
 RRT -.5022 RRF -.6831 RTF .6383
 SGB 843.4 R23 .1333 R13 -.7520
 SG1 734.3 SG2 414.8 THA 142.75

ORBIT DETERMINATION ACCURACY

ST 309.3 SR 230.3 SS 383.6
 CRT .5514 CRS -.7811 CST -.9476
 LSA 515.5 MSA 172.3 SSA 19.9
 EL1 345.0 EL2 172.2 ALF 30.75

LAUNCH DATE MAR 14 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 27 1969

HELIOCENTRIC CONIC

DISTANCE 223.426

RL 148.75 LAL .00 LOL 173.24 VL 29.678 GAL -15.04 AZL 91.15 HCA 102.51 SMA 146.86 ECC .25973 INC 1.1536 V1 29.955
 RP 108.81 LAP -1.13 LOP 275.76 VP 39.188 GAP -1.08 AZP 89.75 TAL 252.23 TAP 354.74 RCA 108.72 APO 185.00 V2 34.827
 RC 79.493 GL -3.99 GP 28.35 ZAL 170.15 ZAP 79.82 ETS 356.37 ZAE 152.51 ETE 101.91 ZAC 101.69 ETC 158.56 CLP -78.41

PLANETOCENTRIC CONIC

C3 68.761 VHL 8.292 DLA -2.77 RAL 3.65 RAD 6569.3 VEL 13.788 PTH 2.52 VHP 4.968 OPA 29.74 RAP 4.26 ECC 2.1316
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 31 32 2434.42 -24.22 55.90 245.42 105.13 1 12 6 1834.4 -21.91 48.00
 90.00 11 48 31 5249.97 26.74 236.78 247.77 80.33 13 16 1 4650.0 25.13 228.48
 100.00 1 51 35 2176.18 -25.62 36.49 244.99 105.96 2 27 51 1576.2 -23.18 28.54
 100.00 13 11 9 4983.44 28.16 216.89 247.48 79.55 14 34 13 4383.4 26.43 208.52
 110.00 2 56 52 1971.81 -29.37 19.67 243.68 108.33 3 29 44 1371.8 -26.58 11.59
 110.00 14 22 21 4760.58 32.01 199.07 246.57 77.32 15 41 42 4160.6 29.94 190.47

DIFFERENTIAL CORRECTIONS

TDE -.4207 TRA -.8823 TC3 -.1320 BAU .2707
 RDE -.2842 RRA .4426 RC3 .2633 FAU .09866
 FDE-1.3070 FRA-1.0787 FC3-1.2421 BSP 1933
 BOE .5077 BRA .9871 BC3 .2945 FSP -607

MID-COURSE EXECUTION ACCURACY

SGT 710.6 SGR 568.3 SG3 204.8
 RRT -.5581 RRF -.7059 RTF .6941
 SGB 909.8 R23 .1372 R13 -.7812
 SG1 810.5 SG2 413.4 THA 145.99

ORBIT DETERMINATION ACCURACY

ST 343.6 SR 217.2 SS 400.3
 CRT .5383 CRS -.7701 CST -.9485
 LSA 543.3 MSA 172.6 SSA 19.9
 EL1 369.0 EL2 170.4 ALF 24.29

LAUNCH DATE MAR 14 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 29 1969

HELIOCENTRIC CONIC

DISTANCE 229.787

RL 148.75 LAL .00 LOL 173.24 VL 29.634 GAL -14.86 AZL 91.35 HCA 105.68 SMA 146.44 ECC .25697 INC 1.3517 V1 29.955
 RP 108.83 LAP -1.30 LOP 278.92 VP 39.149 GAP -.53 AZP 89.63 TAL 251.74 TAP 357.42 RCA 108.81 APO 184.07 V2 34.820
 RC 81.813 GL -4.72 GP 29.17 ZAL 169.61 ZAP 84.30 ETS 358.64 ZAE 150.80 ETE 108.33 ZAC 99.84 ETC 159.35 CLP -83.47

PLANETOCENTRIC CONIC

C3 67.350 VHL 8.207 DLA -3.34 RAL 4.18 RAD 6569.3 VEL 13.737 PTH 2.51 VHP 4.904 OPA 29.68 RAP 2.13 ECC 2.1084
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 37 53 2411.72 -23.81 54.37 245.38 105.79 1 18 4 1811.7 -21.42 46.52
 90.00 11 46 21 5262.80 26.89 237.69 248.19 80.76 13 14 4 4662.8 25.33 229.37
 100.00 1 57 40 2154.35 -25.20 35.00 244.94 106.64 2 33 34 1554.4 -22.68 27.11
 100.00 13 9 15 4995.40 28.31 217.75 247.92 79.98 14 32 31 4395.4 26.63 209.35
 110.00 3 2 20 1951.91 -28.93 18.29 243.59 109.05 3 34 52 1351.9 -26.06 10.28
 110.00 14 21 5 4770.61 32.16 199.81 247.04 77.74 15 40 35 4170.6 30.14 191.18

DIFFERENTIAL CORRECTIONS

TDE -.4671 TRA -.9452 TC3 -.1795 BAU .2995
 RDE -.2589 RRA .4372 RC3 .2800 FAU .10046
 FDE-1.3678 FRA-1.0686 FC3-1.2914 BSP 2221
 BOE .5341 BRA 1.0415 BC3 .3326 FSP -634

MID-COURSE EXECUTION ACCURACY

SGT 793.8 SGR 580.8 SG3 211.0
 RRT -.6042 RRF -.7262 RTF .7377
 SGB 983.6 R23 .1415 R13 -.8050
 SG1 893.6 SG2 411.1 THA 148.86

ORBIT DETERMINATION ACCURACY

ST 381.8 SR 203.2 SS 416.5
 CRT .5239 CRS -.7570 CST -.9498
 LSA 575.0 MSA 171.8 SSA 20.0
 EL1 399.6 EL2 165.3 ALF 18.94

LAUNCH DATE MAR 14 1969

FLIGHT TIME 78.00

ARRIVAL DATE MAY 31 1969

HELIOCENTRIC CONIC

DISTANCE 236.107

RL 148.75 LAL .00 LOL 173.24 VL 29.585 GAL -14.69 AZL 91.56 HCA 108.84 SMA 145.97 ECC .25427 INC 1.5558 V1 29.955
 RP 108.85 LAP -1.47 LOP 282.08 VP 39.105 GAP -.00 AZP 89.50 TAL 251.16 TAP 360.00 RCA 108.85 APO 183.09 V2 34.813
 RC 84.153 GL -5.49 GP 29.94 ZAL 168.98 ZAP 88.64 ETS .96 ZAE 148.90 ETE 114.01 ZAC 98.11 ETC 160.12 CLP -88.43

PLANETOCENTRIC CONIC

C3 65.986 VHL 8.123 DLA -3.92 RAL 4.76 RAD 6569.3 VEL 13.687 PTH 2.50 VHP 4.868 DPA 29.61 RAP .14 ECC 2.0860
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 44 34 2388.69 -23.38 52.82 245.41 106.45 1 24 23 1788.7 -20.90 45.03
 90.00 11 44 20 5276.06 27.03 238.64 248.68 81.22 13 12 16 4676.1 25.54 230.29
 100.00 2 4 5 2132.21 -24.76 33.50 244.95 107.31 2 39 37 1532.2 -22.15 25.67
 100.00 13 7 31 5007.77 28.45 218.65 248.42 80.43 14 30 58 4407.8 26.84 210.22
 110.00 3 8 7 1931.74 -28.48 16.89 243.56 109.76 3 40 19 1331.7 -25.52 8.97
 110.00 14 19 58 4781.01 32.31 200.59 247.58 78.17 15 39 39 4181.0 30.34 191.92

DIFFERENTIAL CORRECTIONS

TDE -.5181 TRA-1.0086 TC3 -.2296 BAU .3342
 RDE -.2235 RRA .4383 RC3 .3014 FAU .10354
 FDE -1.4657 FRA-1.0930 FC3 -1.3584 BSP 2673
 BDE .5642 BRA 1.0997 BC3 .3789 FSP -754

MID-COURSE EXECUTION ACCURACY

SGT 883.8 SGR 600.5 SG3 220.9
 RRT -.6519 RRF -.7536 RTF .7754
 SGB 1068.5 R23 .1436 R13 -.8293
 SG1 987.8 SG2 407.5 THA 150.64

ORBIT DETERMINATION ACCURACY

ST 423.6 SR 183.6 SS 446.5
 CRT .4830 CRS -.7207 CST -.9521
 LSA 619.1 MSA 169.8 SSA 20.0
 EL1 434.2 EL2 156.8 ALF 13.64

LAUNCH DATE MAR 14 1969

FLIGHT TIME 80.00

ARRIVAL DATE JUN 2 1969

HELIOCENTRIC CONIC

DISTANCE 242.376

RL 148.75 LAL .00 LOL 173.24 VL 29.529 GAL -14.52 AZL 91.77 HCA 112.00 SMA 145.45 ECC .25160 INC 1.7678 V1 29.955
 RP 108.87 LAP -1.64 LOP 285.25 VP 39.058 GAP .50 AZP 89.34 TAL 250.48 TAP 2.47 RCA 108.85 APO 182.04 V2 34.807
 RC 86.508 GL -6.30 GP 30.66 ZAL 168.26 ZAP 92.78 ETS 3.31 ZAE 146.87 ETE 118.94 ZAC 96.53 ETC 160.84 CLP -93.23

PLANETOCENTRIC CONIC

C3 64.639 VHL 8.040 DLA -4.52 RAL 5.42 RAD 6569.2 VEL 13.638 PTH 2.49 VHP 4.856 DPA 29.58 RAP 358.31 ECC 2.0638
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 51 40 2365.03 -22.91 51.24 245.51 107.11 1 31 5 1765.0 -20.35 43.50
 90.00 11 42 26 5289.83 27.17 239.62 249.25 81.69 13 10 36 4689.8 25.74 231.24
 100.00 2 10 54 2109.47 -24.29 31.98 245.04 107.98 2 46 3 1509.5 -21.60 24.21
 100.00 13 5 54 5020.62 28.59 219.57 249.00 80.89 14 29 35 4420.6 27.04 211.12
 110.00 3 14 16 1911.05 -27.99 15.48 243.60 110.47 3 46 7 1311.0 -24.95 7.63
 110.00 14 19 1 4791.81 32.46 201.39 248.19 78.63 15 38 53 4191.8 30.55 192.70

DIFFERENTIAL CORRECTIONS

TDE -.5754 TRA-1.0735 TC3 -.2831 BAU .3619
 RDE -.2089 RRA .4146 RC3 .3086 FAU .10098
 FDE -1.4520 FRA-1.0040 FC3 -1.3525 BSP 2842
 BDE .6121 BRA 1.1508 BC3 .4188 FSP -662

MID-COURSE EXECUTION ACCURACY

SGT 982.0 SGR 596.8 SG3 217.1
 RRT -.6694 RRF -.7586 RTF .7963
 SGB 1149.1 R23 .1541 R13 -.8382
 SG1 1075.4 SG2 404.9 THA 153.89

ORBIT DETERMINATION ACCURACY

ST 470.4 SR 174.0 SS 444.3
 CRT .4930 CRS -.7266 CST -.9530
 LSA 648.7 MSA 167.0 SSA 20.0
 EL1 479.1 EL2 148.7 ALF 11.45

LAUNCH DATE MAR 14 1969

FLIGHT TIME 82.00

ARRIVAL DATE JUN 4 1969

HELIOCENTRIC CONIC

DISTANCE 248.609

RL 148.75 LAL .00 LOL 173.24 VL 29.469 GAL -14.34 AZL 91.99 HCA 115.16 SMA 144.88 ECC .24898 INC 1.9893 V1 29.955
 RP 108.89 LAP -1.80 LOP 288.41 VP 39.008 GAP .97 AZP 89.15 TAL 249.71 TAP 4.87 RCA 108.81 APO 180.96 V2 34.802
 RC 88.877 GL -7.15 GP 31.35 ZAL 167.45 ZAP 96.70 ETS 5.69 ZAE 144.77 ETE 123.21 ZAC 95.12 ETC 161.49 CLP -97.86

PLANETOCENTRIC CONIC

C3 63.337 VHL 7.958 DLA -5.14 RAL 6.13 RAD 6569.2 VEL 13.590 PTH 2.48 VHP 4.868 DPA 29.60 RAP 356.67 ECC 2.0424
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 59 14 2340.54 -22.41 49.62 245.69 107.77 1 38 15 1740.5 -19.77 41.94
 90.00 11 40 34 5304.52 27.31 240.67 249.89 82.20 13 8 59 4704.5 25.95 232.27
 100.00 2 18 10 2085.95 -23.79 30.41 245.20 108.66 2 52 55 1486.0 -21.02 22.71
 100.00 13 4 20 5034.34 28.74 220.57 249.66 81.40 14 28 15 4434.3 27.25 212.08
 110.00 3 20 51 1889.68 -27.48 14.03 243.71 111.18 3 52 21 1289.7 -24.35 6.26
 110.00 14 18 8 4803.37 32.61 202.26 248.89 79.12 15 38 12 4203.4 30.76 193.53

DIFFERENTIAL CORRECTIONS

TDE -.6371 TRA-1.1367 TC3 -.3379 BAU .3945
 RDE -.1835 RRA .3983 RC3 .3207 FAU .09992
 FDE -1.4789 FRA -.9555 FC3 -1.3658 BSP 3175
 BDE .6630 BRA 1.2044 BC3 .4659 FSP -669

MID-COURSE EXECUTION ACCURACY

SGT 1083.9 SGR 600.7 SG3 217.5
 RRT -.6919 RRF -.7723 RTF .8156
 SGB 1239.2 R23 .1623 R13 -.8496
 SG1 1172.6 SG2 400.9 THA 156.05

ORBIT DETERMINATION ACCURACY

ST 520.9 SR 158.6 SS 457.1
 CRT .4728 CRS -.7066 CST -.9547
 LSA 691.7 MSA 163.2 SSA 19.9
 EL1 526.7 EL2 138.2 ALF 8.80

LAUNCH DATE MAR 14 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 6 1969

HELIOCENTRIC CONIC

DISTANCE 254.802

RL 148.75 LAL .00 LOL 173.24 VL 29.405 GAL -14.16 AZL 92.22 HCA 118.31 SMA 144.29 ECC .24641 INC 2.2226 V1 29.955
 RP 108.90 LAP -1.96 LOP 291.57 VP 38.955 GAP 1.42 AZP 88.95 TAL 248.86 TAP 7.18 RCA 108.74 APO 179.85 V2 34.797
 RC 91.256 GL -8.07 GP 32.04 ZAL 166.55 ZAP 100.39 ETS 8.10 ZAE 142.64 ETE 126.86 ZAC 93.87 ETC 162.06 CLP -102.28

PLANETOCENTRIC CONIC

C3 62.072 VHL 7.879 DLA -5.80 RAL 6.91 RAD 6569.2 VEL 13.544 PTH 2.48 VHP 4.902 DPA 29.70 RAP 355.20 ECC 2.0216
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 7 21 2314.93 -21.87 47.94 245.93 108.45 1 45 56 1714.9 -19.15 40.32
 90.00 11 38 41 5320.38 27.45 241.81 250.63 82.76 13 7 22 4720.4 26.16 233.38
 100.00 2 25 57 2061.39 -23.24 28.79 245.43 109.35 3 0 19 1461.4 -20.39 21.15
 100.00 13 2 46 5049.16 28.88 221.65 250.41 81.95 14 26 56 4449.2 27.47 213.13
 110.00 3 27 54 1867.41 -26.92 12.54 243.90 111.91 3 59 2 1267.4 -23.70 4.85
 110.00 14 17 18 4815.90 32.76 203.20 249.68 79.66 15 37 34 4215.9 30.99 194.43

DIFFERENTIAL CORRECTIONS

TDE -.7039 TRA-1.1981 TC3 -.3941 BAU .4272
 RDE -.1579 RRA .3787 RC3 .3313 FAU .09807
 FDE -1.4965 FRA -.8980 FC3 -1.3677 BSP 3523
 BDE .7214 BRA 1.2565 BC3 .5149 FSP -671

MID-COURSE EXECUTION ACCURACY

SGT 1189.4 SGR 601.9 SG3 216.2
 RRT -.7093 RRF -.7847 RTF .8301
 SGB 1333.1 R23 .1720 R13 -.8583
 SG1 1272.7 SG2 396.5 THA 158.01

ORBIT DETERMINATION ACCURACY

ST 575.7 SR 142.6 SS 469.2
 CRT .4468 CRS -.6812 CST -.9565
 LSA 739.1 MSA 158.8 SSA 19.8
 EL1 579.4 EL2 126.8 ALF 6.63

LAUNCH DATE MAR 14 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 8 1969

HELIOCENTRIC CONIC

DISTANCE 260.959

RL 148.75 LAL .00 LOL 173.24 VL 29.338 GAL -13.97 AZL 92.47 HCA 121.47 SMA 143.67 ECC .24389 INC 2.4701 V1 29.955
 RP 108.92 LAP -2.11 LOP 294.73 VP 38.900 GAP 1.84 AZP 88.71 TAL 247.94 TAP 9.41 RCA 108.63 APO 178.71 V2 34.793
 RC 93.644 GL -9.05 GP 32.75 ZAL 165.57 ZAP 103.82 ETS 10.55 ZAE 140.51 ETE 129.97 ZAC 92.81 ETC 162.55 CLP-106.49

PLANETOCENTRIC CONIC

C3 60.850 VML 7.801 OLA -6.50 RAL 7.76 RAD 6569.1 VEL 13.498 PTH 2.47 VHP 4.954 OPA 29.89 RAP 353.92 ECC 2.0014
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 16 7 2287.90 -21.28 46.18 246.26 109.14 1 54 15 1687.9 -18.47 38.63
 90.00 11 36 42 5337.77 27.59 243.06 251.46 83.37 13 5 40 4737.8 26.39 234.60
 100.00 2 34 22 2035.48 -22.65 27.09 245.73 110.05 3 8 17 1435.5 -19.71 19.53
 100.00 13 1 9 5065.42 29.03 222.83 251.25 82.55 14 25 34 4465.4 27.70 214.28
 110.00 3 35 32 1843.98 -26.31 10.99 244.16 112.65 4 6 16 1244.0 -23.01 3.38
 110.00 14 16 28 4829.68 32.93 204.25 250.57 80.26 15 36 58 4229.7 31.23 195.43

DIFFERENTIAL CORRECTIONS

TDE -.7757 TRA-1.2564 TC3 -.4508 BAU .4593
 RDE -.1328 RRA .3553 RC3 .3399 FAU .09535
 FDE-1.5025 FRA -.8298 FC3-1.3566 BSP .3857
 BDE .7870 BRA 1.3056 BC3 .5646 FSP -.660

MID-COURSE EXECUTION ACCURACY

SGT 1296.9 SGR 599.8 SG3 212.9
 RRT -.7217 RRF -.7955 RTF .8407
 SGB 1428.9 R23 .1837 R13 -.8645
 SG1 1374.1 SG2 391.9 THA 159.83

ORBIT DETERMINATION ACCURACY

ST 634.6 SR 126.4 SS 479.7
 CRT .4149 CRS -.6504 CST -.9582
 LSA 790.4 MSA 153.8 SSA 19.7
 EL1 636.8 EL2 114.6 ALF 4.88

LAUNCH DATE MAR 14 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 10 1969

HELIOCENTRIC CONIC

DISTANCE 267.082

RL 148.75 LAL .00 LOL 173.24 VL 29.267 GAL -13.78 AZL 92.73 HCA 124.62 SMA 143.02 ECC .24141 INC 2.7348 V1 29.955
 RP 108.93 LAP -2.25 LOP 297.89 VP 38.844 GAP 2.24 AZP 88.45 TAL 246.95 TAP 11.58 RCA 108.50 APO 177.55 V2 34.789
 RC 96.038 GL -10.11 GP 33.49 ZAL 164.48 ZAP 106.97 ETS 13.06 ZAE 138.40 ETE 132.59 ZAC 91.91 ETC 162.94 CLP-110.49

PLANETOCENTRIC CONIC

C3 59.680 VML 7.725 OLA -7.26 RAL 8.68 RAD 6569.1 VEL 13.455 PTH 2.46 VHP 5.025 OPA 30.22 RAP 352.80 ECC 1.9822
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 39 2259.09 -20.62 44.32 246.67 109.85 2 3 18 1659.1 -17.73 36.84
 90.00 11 34 33 5357.13 27.74 244.46 252.39 84.05 13 3 50 4757.1 26.62 235.97
 100.00 2 43 30 2007.90 -21.99 25.31 246.12 110.77 3 16 58 1407.9 -18.97 17.82
 100.00 12 59 22 5083.55 29.19 224.16 252.21 83.24 14 24 6 4483.6 27.94 215.58
 110.00 3 43 48 1819.12 -25.65 9.36 244.50 113.41 4 14 7 1219.1 -22.26 1.84
 110.00 14 15 34 4845.10 33.10 205.42 251.57 80.93 15 36 19 4245.1 31.49 196.56

DIFFERENTIAL CORRECTIONS

TDE -.8535 TRA-1.3114 TC3 -.5080 BAU .4912
 RDE -.1063 RRA .3299 RC3 .3479 FAU .09224
 FDE-1.5054 FRA -.7598 FC3-1.3380 BSP .4214
 BDE .8601 BRA 1.3522 BC3 .6157 FSP -.652

MID-COURSE EXECUTION ACCURACY

SGT 1406.4 SGR 596.6 SG3 208.8
 RRT -.7315 RRF -.8066 RTF .8490
 SGB 1527.7 R23 .1967 R13 -.8696
 SG1 1477.9 SG2 387.1 THA 161.44

ORBIT DETERMINATION ACCURACY

ST 698.4 SR 109.3 SS 491.1
 CRT .3638 CRS -.6020 CST -.9599
 LSA 847.6 MSA 148.6 SSA 19.4
 EL1 699.6 EL2 101.7 ALF 3.33

LAUNCH DATE MAR 14 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 12 1969

HELIOCENTRIC CONIC

DISTANCE 273.172

RL 148.75 LAL .00 LOL 173.24 VL 29.193 GAL -13.59 AZL 93.02 HCA 127.78 SMA 142.36 ECC .23898 INC 3.0204 V1 29.955
 RP 108.94 LAP -2.39 LOP 301.06 VP 38.786 GAP 2.63 AZP 88.15 TAL 245.90 TAP 13.68 RCA 108.34 APO 176.38 V2 34.787
 RC 98.436 GL -11.27 GP 34.30 ZAL 163.28 ZAP 109.84 ETS 15.63 ZAE 136.31 ETE 134.78 ZAC 91.17 ETC 163.23 CLP-114.26

PLANETOCENTRIC CONIC

C3 58.574 VML 7.653 OLA -8.09 RAL 9.69 RAD 6569.1 VEL 13.414 PTH 2.43 VHP 5.114 OPA 30.68 RAP 351.83 ECC 1.9640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 36 5 2228.10 -19.89 42.34 247.17 110.58 2 13 13 1628.1 -16.92 34.93
 90.00 11 32 7 5379.00 27.88 246.05 253.46 84.84 13 1 46 4779.0 26.87 237.52
 100.00 2 53 31 1978.28 -21.26 23.41 246.61 111.52 3 26 29 1378.3 -18.15 15.99
 100.00 12 57 22 5104.04 29.34 225.66 253.30 84.01 14 22 26 4504.0 28.20 217.04
 110.00 3 52 51 1792.51 -24.92 7.64 244.93 114.19 4 22 43 1192.5 -21.44 .21
 110.00 14 14 31 4862.58 33.28 206.75 252.72 81.70 15 35 34 4262.6 31.77 197.85

DIFFERENTIAL CORRECTIONS

TDE -.9376 TRA-1.3620 TC3 -.5651 BAU .5224
 RDE -.0791 RRA .3017 RC3 .3546 FAU .08866
 FDE-1.5034 FRA -.6860 FC3-1.3104 BSP .4575
 BDE .9410 BRA 1.3950 BC3 .6672 FSP -.640

MID-COURSE EXECUTION ACCURACY

SGT 1517.1 SGR 591.8 SG3 203.7
 RRT -.7384 RRF -.8174 RTF .8553
 SGB 1628.4 R23 .2115 R13 -.8733
 SG1 1582.9 SG2 382.5 THA 162.90

ORBIT DETERMINATION ACCURACY

ST 767.4 SR 92.0 SS 502.7
 CRT .2834 CRS -.5259 CST -.9617
 LSA 910.6 MSA 143.2 SSA 19.1
 EL1 767.8 EL2 88.1 ALF 1.97

LAUNCH DATE MAR 14 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 14 1969

HELIOCENTRIC CONIC

DISTANCE 279.231

RL 148.75 LAL .00 LOL 173.24 VL 29.116 GAL -13.39 AZL 93.33 HCA 130.93 SMA 141.69 ECC .23661 INC 3.3315 V1 29.955
 RP 108.94 LAP -2.52 LOP 304.22 VP 38.727 GAP 2.99 AZP 87.82 TAL 244.79 TAP 15.72 RCA 108.16 APO 175.21 V2 34.785
 RC 100.837 GL -12.53 GP 35.21 ZAL 161.97 ZAP 112.42 ETS 18.29 ZAE 134.25 ETE 136.61 ZAC 90.58 ETC 163.44 CLP-117.82

PLANETOCENTRIC CONIC

C3 57.548 VML 7.586 OLA -9.00 RAL 10.78 RAD 6569.0 VEL 13.376 PTH 2.44 VHP 5.220 OPA 31.32 RAP 350.99 ECC 1.9471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 47 37 2194.42 -19.07 40.21 247.79 111.33 2 24 11 1594.4 -16.01 32.88
 90.00 11 29 18 5404.02 28.02 247.86 254.67 85.74 12 59 22 4804.0 27.13 239.31
 100.00 3 4 34 1946.17 -20.45 21.37 247.21 112.29 3 37 0 1346.2 -17.25 14.04
 100.00 12 55 2 5127.51 29.50 227.39 254.54 84.91 14 20 29 4527.5 28.48 218.73
 110.00 4 2 48 1763.79 -24.11 5.80 245.48 115.00 4 32 12 1163.8 -20.53 358.48
 110.00 14 13 16 4882.65 33.47 208.29 254.03 82.59 15 34 39 4282.7 32.08 199.33

DIFFERENTIAL CORRECTIONS

TDE-1.0287 TRA-1.4072 TC3 -.6212 BAU .5522
 RDE -.0516 RRA .2700 RC3 .3596 FAU .08454
 FDE-1.4947 FRA -.6072 FC3-1.2719 BSP .4918
 BDE 1.0300 BRA 1.4328 BC3 .7178 FSP -.618

MID-COURSE EXECUTION ACCURACY

SGT 1627.8 SGR 584.7 SG3 197.3
 RRT -.7419 RRF -.8275 RTF .8597
 SGB 1729.6 R23 .2281 R13 -.8758
 SG1 1687.8 SG2 378.1 THA 164.27

ORBIT DETERMINATION ACCURACY

ST 841.8 SR 75.0 SS 513.6
 CRT .1559 CRS -.4033 CST -.9634
 LSA 979.1 MSA 137.9 SSA 18.6
 EL1 841.9 EL2 74.1 ALF .80

LAUNCH DATE MAR 14 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 16 1969

HELIOCENTRIC CONIC

DISTANCE 285.262

RL 148.75 LAL .00 LOL 173.24 VL 29.038 GAL -13.19 AZL 93.67 HCA 134.08 SMA 141.00 ECC .23429 INC 3.6736 V1 29.955
 RP 108.95 LAP -2.64 LOP 307.38 VP 38.667 GAP 3.33 AZP 87.44 TAL 243.62 TAP 17.70 RCA 107.97 APO 174.04 V2 34.784
 RC 103.240 GL -13.93 GP 36.23 ZAL 160.52 ZAP 114.69 ETS 21.06 ZAE 132.20 ETE 138.10 ZAC 90.11 ETC 163.55 CLP-121.19

PLANETOCENTRIC CONIC

C3 56.626 VHL 7.525 DLA -10.01 RAL 11.97 RAD 6569.0 VEL 13.341 PTH 2.44 VHP 5.345 DPA 32.13 RAP 350.23 ECC 1.9319
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 0 28 2157.47 -18.14 37.90 248.55 112.12 2 36 26 1557.5 -14.98 30.65
 90.00 11 25 56 5433.04 28.15 249.98 256.07 86.79 12 56 29 4833.0 27.41 241.39
 100.00 3 16 52 1911.01 -19.52 19.17 247.94 113.09 3 48 43 1311.0 -16.23 11.92
 100.00 12 52 14 5154.74 29.64 229.40 255.96 85.96 14 18 8 4554.7 28.77 220.71
 110.00 4 13 52 1732.51 -23.19 3.83 246.15 115.84 4 42 44 1132.5 -19.53 356.61
 110.00 14 11 43 4906.00 33.66 210.08 255.53 83.64 15 33 29 4306.0 32.41 201.07

DIFFERENTIAL CORRECTIONS

TDE-1.1289 TRA-1.4468 TC3 -.6765 BAU .5816
 RDE -.0222 RRA .2364 RC3 .3641 FAU .08028
 FDE-1.4867 FRA -.5303 FC3-1.2274 BSP 5283
 BDE 1.1291 BRA 1.4660 BC3 .7682 FSP -600

MID-COURSE EXECUTION ACCURACY

SGT 1739.7 SGR 577.8 SG3 190.5
 RRT -.7438 RRF -.8382 RTF .8635
 SGB 1833.2 R23 .2461 R13 -.8780
 SG1 1794.6 SG2 374.4 THA 165.48

ORBIT DETERMINATION ACCURACY

ST 923.3 SR 59.7 SS 526.4
 CRT -.0793 CRS -.1687 CST -.9653
 LSA 1056.0 MSA 133.0 SSA 18.0
 EL1 923.3 EL2 59.5 ALF 179.70

LAUNCH DATE MAR 14 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 18 1969

HELIOCENTRIC CONIC

DISTANCE 291.266

RL 148.75 LAL .00 LOL 173.24 VL 28.958 GAL -12.97 AZL 94.05 HCA 137.23 SMA 140.31 ECC .23203 INC 4.0544 V1 29.955
 RP 108.95 LAP -2.75 LOP 310.54 VP 38.607 GAP 3.66 AZP 87.02 TAL 242.40 TAP 19.63 RCA 107.75 APO 172.87 V2 34.783
 RC 105.643 GL -15.49 GP 37.41 ZAL 158.91 ZAP 116.65 ETS 23.95 ZAE 130.16 ETE 139.31 ZAC 89.73 ETC 163.59 CLP-124.37

PLANETOCENTRIC CONIC

C3 55.840 VHL 7.473 DLA -11.15 RAL 13.27 RAD 6569.0 VEL 13.312 PTH 2.43 VHP 5.491 DPA 33.14 RAP 349.53 ECC 1.9190
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 14 57 2116.51 -17.07 35.37 249.48 112.94 2 50 14 1516.5 -13.82 28.20
 90.00 11 21 51 5467.14 28.25 252.47 257.68 88.03 12 52 58 4867.1 27.68 243.85
 100.00 3 30 42 1872.15 -18.47 16.77 248.84 113.93 4 1 54 1272.1 -15.08 9.61
 100.00 12 48 48 5186.73 29.77 231.77 257.60 87.20 14 15 15 4586.7 29.07 223.04
 110.00 4 26 15 1698.17 -22.16 1.70 246.98 116.72 4 54 33 1098.2 -18.39 354.59
 110.00 14 9 44 4933.48 33.84 212.21 257.27 84.88 15 31 57 4333.5 32.77 203.14

DIFFERENTIAL CORRECTIONS

TDE-1.2402 TRA-1.4798 TC3 -.7298 BAU .6098
 RDE .0087 RRA .1997 RC3 .3670 FAU .07574
 FDE-1.4775 FRA -.4534 FC3-1.1743 BSP 5655
 BDE 1.2402 BRA 1.4932 BC3 .8169 FSP -579

MID-COURSE EXECUTION ACCURACY

SGT 1852.4 SGR 570.3 SG3 183.1
 RRT -.7431 RRF -.8487 RTF .8666
 SGB 1938.2 R23 .2652 R13 -.8799
 SG1 1902.2 SG2 371.6 THA 166.59

ORBIT DETERMINATION ACCURACY

ST 1012.7 SR 50.1 SS 540.4
 CRT -.4561 CRS .2350 CST -.9673
 LSA 1141.6 MSA 128.8 SSA 17.2
 EL1 1013.0 EL2 44.5 ALF 178.71

LAUNCH DATE MAR 14 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 20 1969

HELIOCENTRIC CONIC

DISTANCE 297.245

RL 148.75 LAL .00 LOL 173.24 VL 28.877 GAL -12.76 AZL 94.48 HCA 140.38 SMA 139.62 ECC .22983 INC 4.4833 V1 29.955
 RP 108.95 LAP -2.86 LOP 313.70 VP 38.546 GAP 3.97 AZP 86.54 TAL 241.13 TAP 21.51 RCA 107.53 APO 171.70 V2 34.783
 RC 108.045 GL -17.23 GP 38.77 ZAL 157.11 ZAP 118.27 ETS 27.01 ZAE 128.09 ETE 140.28 ZAC 89.41 ETC 163.55 CLP-127.40

PLANETOCENTRIC CONIC

C3 55.235 VHL 7.432 DLA -12.44 RAL 14.71 RAD 6569.0 VEL 13.289 PTH 2.43 VHP 5.661 DPA 34.38 RAP 348.82 ECC 1.9090
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 31 29 2070.56 -15.83 32.56 250.63 113.79 3 6 0 1470.6 -12.48 25.49
 90.00 11 16 48 5507.72 28.31 255.43 259.54 89.52 12 48 35 4907.7 27.95 246.79
 100.00 3 46 27 1828.72 -17.25 14.12 249.96 114.80 4 16 55 1228.7 -13.76 7.06
 100.00 12 44 31 5224.79 29.87 234.59 259.52 88.68 14 11 36 4624.8 29.36 225.83
 110.00 4 40 17 1660.10 -20.97 359.38 248.02 117.63 5 7 57 1060.1 -17.11 352.39
 110.00 14 7 10 4966.18 34.01 214.75 259.30 86.37 15 29 56 4366.2 33.14 205.62

DIFFERENTIAL CORRECTIONS

TDE-1.3640 TRA-1.5037 TC3 -.7792 BAU .6362
 RDE .0402 RRA .1585 RC3 .3675 FAU .07083
 FDE-1.4646 FRA -.3737 FC3-1.1102 BSP 6001
 BDE 1.3645 BRA 1.5120 BC3 .8616 FSP -551

MID-COURSE EXECUTION ACCURACY

SGT 1963.8 SGR 561.3 SG3 174.6
 RRT -.7384 RRF -.8580 RTF .8689
 SGB 2042.4 R23 .2857 R13 -.8811
 SG1 2008.6 SG2 370.1 THA 167.66

ORBIT DETERMINATION ACCURACY

ST 1110.7 SR 51.4 SS 554.5
 CRT -.8157 CRS .6721 CST -.9693
 LSA 1236.0 MSA 125.5 SSA 16.1
 EL1 1111.5 EL2 29.7 ALF 177.84

LAUNCH DATE MAR 14 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 22 1969

HELIOCENTRIC CONIC

DISTANCE 303.200

RL 148.75 LAL .00 LOL 173.24 VL 28.795 GAL -12.53 AZL 94.97 HCA 143.53 SMA 138.92 ECC .22771 INC 4.9731 V1 29.955
 RP 108.94 LAP -2.95 LOP 316.87 VP 38.485 GAP 4.27 AZP 86.00 TAL 239.82 TAP 23.35 RCA 107.29 APO 170.56 V2 34.784
 RC 110.446 GL -19.20 GP 40.36 ZAL 155.09 ZAP 119.53 ETS 30.25 ZAE 125.96 ETE 141.03 ZAC 89.11 ETC 163.45 CLP-130.30

PLANETOCENTRIC CONIC

C3 54.876 VHL 7.408 DLA -13.91 RAL 16.31 RAD 6569.0 VEL 13.275 PTH 2.43 VHP 5.861 DPA 35.85 RAP 348.05 ECC 1.9031
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 50 37 2018.36 -14.37 29.43 252.07 114.66 3 24 15 1418.4 -10.93 22.44
 90.00 11 10 24 5556.70 28.29 259.02 261.73 91.32 12 43 1 4956.7 28.17 250.35
 100.00 4 4 36 1779.63 -15.82 11.17 251.36 115.70 4 34 16 1179.6 -12.24 4.21
 100.00 12 39 6 5270.66 29.89 238.01 261.76 90.48 14 6 57 4670.7 29.64 229.21
 110.00 4 56 22 1617.51 -19.61 356.84 249.32 118.58 5 23 19 1017.5 -15.64 349.96
 110.00 14 3 50 5005.55 34.14 217.81 261.70 88.19 15 27 15 4405.5 33.51 208.63

DIFFERENTIAL CORRECTIONS

TDE-1.5060 TRA-1.5187 TC3 -.8244 BAU .6617
 RDE .0741 RRA .1139 RC3 .3661 FAU .06582
 FDE-1.4544 FRA -.2976 FC3-1.0384 BSP 6373
 BDE 1.5078 BRA 1.5230 BC3 .9020 FSP -526

MID-COURSE EXECUTION ACCURACY

SGT 2076.7 SGR 552.9 SG3 165.9
 RRT -.7307 RRF -.8668 RTF .8716
 SGB 2149.1 R23 .3060 R13 -.8829
 SG1 2116.9 SG2 370.3 THA 168.64

ORBIT DETERMINATION ACCURACY

ST 1220.6 SR 65.5 SS 571.2
 CRT -.9660 CRS .9089 CST -.9716
 LSA 1343.5 MSA 123.5 SSA 14.7
 EL1 1222.3 EL2 16.9 ALF 177.03

LAUNCH DATE MAR 14 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 24 1969

HELIOCENTRIC CONIC

DISTANCE 309.133

RL 148.75 LAL .00 LOL 173.24 VL 28.711 GAL -12.30 AZL 95.54 HCA 146.67 SMA 138.23 ECC .22565 INC 5.5417 V1 29.955
 RP 108.94 LAP -3.04 LOP 320.03 VP 38.424 GAP 4.55 AZP 85.37 TAL 238.47 TAP 25.13 RCA 107.04 APO 169.42 V2 34.786
 RC 112.844 GL -21.45 GP 42.23 ZAL 152.80 ZAP 120.39 ETS 33.70 ZAE 123.73 ETE 141.63 ZAC 88.79 ETC 163.31 CLP-133.10

PLANETOCENTRIC CONIC

C3 54.857 VHL 7.407 DLA -15.60 RAL 18.10 RAD 6569.0 VEL 13.275 PTH 2.43 VHP 6.098 DPA 37.59 RAP 347.14 ECC 1.9028
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 13 8 1958.12 -12.63 25.86 253.89 115.55 3 45 46 1358.1 -9.09 18.97
 90.00 11 2 10 5616.77 28.12 263.40 264.30 93.51 12 35 47 5016.8 28.31 254.74
 100.00 4 25 54 1723.36 -14.13 7.84 253.14 116.62 4 54 37 1123.4 -10.45 .99
 100.00 12 32 5 5326.77 29.78 242.17 264.40 92.67 14 0 52 4726.8 29.84 233.37
 110.00 5 15 3 1569.37 -18.01 354.01 250.98 119.55 5 41 13 969.4 -13.94 347.26
 110.00 13 59 25 5053.52 34.18 221.56 264.54 90.40 15 23 39 4453.5 33.86 212.33

DIFFERENTIAL CORRECTIONS

TDE-1.6708 TRA-1.5220 TC3 -.8622 BAU .6856
 RDE .1093 RRA .0638 RC3 .3612 FAU .06059
 FDE-1.4445 FRA -.2230 FC3 -.9562 BSP 6748
 BDE 1.6744 BRA 1.5234 BC3 .9348 FSP -498

MID-COURSE EXECUTION ACCURACY

SGT 2190.1 SGR 544.1 SG3 156.6
 RRT -.7178 RRF -.8733 RTF .8745
 SGB 2256.6 R23 .3257 R13 -.8849
 SG1 2225.6 SG2 372.8 THA 169.59

ORBIT DETERMINATION ACCURACY

ST 1344.1 SR 87.4 SS 589.9
 CRT -.9833 CRS .9807 CST -.9740
 LSA 1465.2 MSA 122.9 SSA 13.2
 EL1 1346.8 EL2 15.9 ALF 176.34

LAUNCH DATE MAR 14 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 26 1969

HELIOCENTRIC CONIC

DISTANCE 315.044

RL 148.75 LAL .00 LOL 173.24 VL 28.628 GAL -12.06 AZL 96.21 HCA 149.81 SMA 137.54 ECC .22366 INC 6.2141 V1 29.955
 RP 108.93 LAP -3.12 LOP 323.20 VP 38.364 GAP 4.82 AZP 84.62 TAL 237.07 TAP 26.88 RCA 106.78 APO 168.30 V2 34.789
 RC 115.239 GL -24.04 GP 44.41 ZAL 150.18 ZAP 120.83 ETS 37.40 ZAE 121.35 ETE 142.11 ZAC 88.39 ETC 163.16 CLP-135.84

PLANETOCENTRIC CONIC

C3 55.326 VHL 7.438 DLA -17.56 RAL 20.13 RAD 6569.0 VEL 13.292 PTH 2.43 VHP 6.386 DPA 39.61 RAP 345.98 ECC 1.9105
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 40 15 1887.19 -10.52 21.72 256.26 116.44 4 11 42 1287.2 -6.88 14.93
 90.00 10 51 16 5691.90 27.68 268.85 267.33 96.21 12 26 7 5091.9 28.25 260.23
 100.00 4 51 22 1657.73 -12.10 4.03 255.44 117.54 5 18 59 1057.7 -8.32 357.29
 100.00 12 22 50 5396.59 29.45 247.34 267.54 95.37 13 52 47 4796.6 29.88 238.56
 110.00 5 37 8 1514.31 -16.14 350.85 253.13 120.55 6 2 23 914.3 -11.96 344.23
 110.00 13 53 33 5112.77 34.06 226.18 267.94 93.14 15 18 46 4512.8 34.12 216.94

DIFFERENTIAL CORRECTIONS

TDE-1.8652 TRA-1.5094 TC3 -.8886 BAU .7066
 RDE .1438 RRA .0058 RC3 .3506 FAU .05500
 FDE-1.4320 FRA -.1476 FC3 -.8606 BSP 7090
 BDE 1.8707 BRA 1.5094 BC3 .9553 FSP -464

MID-COURSE EXECUTION ACCURACY

SGT 2301.9 SGR 533.2 SG3 146.4
 RRT -.6961 RRF -.8751 RTF .8777
 SGB 2362.9 R23 .3443 R13 -.8872
 SG1 2332.5 SG2 377.8 THA 170.59

ORBIT DETERMINATION ACCURACY

ST 1483.1 SR 111.9 SS 609.3
 CRT -.9660 CRS .9942 CST -.9766
 LSA 1602.5 MSA 123.9 SSA 11.5
 EL1 1487.1 EL2 28.9 ALF 175.83

LAUNCH DATE MAR 14 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 28 1969

HELIOCENTRIC CONIC

DISTANCE 320.934

RL 148.75 LAL .00 LOL 173.24 VL 28.543 GAL -11.82 AZL 97.03 HCA 152.95 SMA 136.86 ECC .22175 INC 7.0266 V1 29.955
 RP 108.92 LAP -3.19 LOP 326.36 VP 38.304 GAP 5.07 AZP 83.74 TAL 235.64 TAP 28.59 RCA 106.51 APO 167.21 V2 34.792
 RC 117.630 GL -27.04 GP 46.99 ZAL 147.16 ZAP 120.77 ETS 41.39 ZAE 118.76 ETE 142.55 ZAC 87.84 ETC 163.05 CLP-138.60

PLANETOCENTRIC CONIC

C3 56.515 VHL 7.518 DLA -19.85 RAL 22.47 RAD 6569.0 VEL 13.337 PTH 2.44 VHP 6.745 DPA 41.92 RAP 344.43 ECC 1.9301
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 56 1801.14 -7.87 16.79 259.41 117.29 4 43 57 1201.1 -4.15 10.08
 90.00 10 36 16 5788.42 26.78 275.77 270.90 99.56 12 12 44 5188.4 27.83 267.26
 100.00 5 22 39 1579.37 -9.59 359.57 258.49 118.45 5 48 58 979.4 -5.72 352.92
 100.00 12 10 14 5485.41 28.71 253.83 271.25 98.71 13 41 39 4885.4 29.61 245.15
 110.00 6 3 47 1450.46 -13.89 347.26 255.95 121.55 6 27 58 850.5 -9.62 340.77
 110.00 13 45 35 5187.09 33.63 231.94 272.01 96.52 15 12 2 4587.1 34.17 222.74

DIFFERENTIAL CORRECTIONS

TDE-2.1032 TRA-1.4787 TC3 -.9003 BAU .7254
 RDE .1775 RRA -.0606 RC3 .3335 FAU .04927
 FDE-1.4220 FRA -.0772 FC3 -.7547 BSP 7468
 BDE 2.1107 BRA 1.4799 BC3 .9601 FSP -431

MID-COURSE EXECUTION ACCURACY

SGT 2416.1 SGR 521.7 SG3 135.7
 RRT -.6639 RRF -.8697 RTF .8825
 SGB 2471.7 R23 .3590 R13 -.8910
 SG1 2441.4 SG2 386.1 THA 171.63

ORBIT DETERMINATION ACCURACY

ST 1643.3 SR 136.9 SS 632.0
 CRT -.9430 CRS .9891 CST -.9794
 LSA 1761.4 MSA 126.2 SSA 9.7
 EL1 1648.3 EL2 45.4 ALF 175.50

LAUNCH DATE MAR 14 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUN 30 1969

HELIOCENTRIC CONIC

DISTANCE 326.802

RL 148.75 LAL .00 LOL 173.24 VL 28.459 GAL -11.56 AZL 98.03 HCA 156.08 SMA 136.18 ECC .21990 INC 8.0345 V1 29.955
 RP 108.91 LAP -3.25 LOP 329.53 VP 38.245 GAP 5.32 AZP 82.65 TAL 234.17 TAP 30.25 RCA 106.23 APO 166.13 V2 34.796
 RC 120.015 GL -30.54 GP 50.04 ZAL 143.63 ZAP 120.16 ETS 45.75 ZAE 115.85 ETE 143.07 ZAC 87.04 ETC 163.08 CLP-141.48

PLANETOCENTRIC CONIC

C3 58.818 VHL 7.669 DLA -22.53 RAL 25.22 RAD 6569.1 VEL 13.423 PTH 2.45 VHP 7.204 DPA 44.53 RAP 342.27 ECC 1.9680
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 57 52 1691.18 -4.39 10.58 263.75 118.00 5 26 3 1091.2 -.61 3.94
 90.00 10 14 17 629.90 24.99 306.92 274.99 103.76 10 24 47 29.9 26.64 298.64
 100.00 6 2 38 1482.11 -6.40 354.12 262.65 119.26 6 27 20 882.1 -2.45 347.55
 100.00 11 52 12 5602.25 27.22 262.19 275.57 102.86 13 25 34 5002.2 28.72 253.71
 110.00 6 36 48 1374.98 -11.17 343.11 259.77 122.52 6 59 43 775.0 -6.80 356.74
 110.00 13 34 31 5282.14 32.66 239.19 276.88 100.70 15 2 33 4682.1 33.79 230.14

DIFFERENTIAL CORRECTIONS

TDE-2.4019 TRA-1.4218 TC3 -.8896 BAU .7399
 RDE .2041 RRA -.1398 RC3 .3066 FAU .04327
 FDE-1.4121 FRA -.0098 FC3 -.6368 BSP 7851
 BDE 2.4106 BRA 1.4286 BC3 .9410 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 2530.7 SGR 507.1 SG3 124.2
 RRT -.6119 RRF -.8494 RTF .8891
 SGB 2581.0 R23 .3685 R13 -.8965
 SG1 2550.1 SG2 398.1 THA 172.83

ORBIT DETERMINATION ACCURACY

ST 1827.8 SR 156.9 SS 656.9
 CRT -.9156 CRS .9738 CST -.9824
 LSA 1944.2 MSA 129.9 SSA 8.0
 EL1 1833.4 EL2 62.9 ALF 175.50

LAUNCH DATE MAR 14 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUL 2 1969

HELIOCENTRIC CONIC

DISTANCE 332.647

RL 148.75 LAL .00 LOL 173.24 VL 28.374 GAL -11.30 AZL 99.33 MCA 159.21 SMA 135.51 ECC .21813 INC 9.3262 V1 29.955
 RP 108.89 LAP -3.30 LOP 332.70 VP 38.186 GAP 5.55 AZP 81.27 TAL 232.66 TAP 31.87 RCA 105.95 APO 165.07 V2 34.800
 RC 122.394 GL -34.64 GP 53.63 ZAL 139.49 ZAP 118.92 ETS 50.58 ZAE 112.53 ETE 143.87 ZAC 85.89 ETC 163.43 CLP-144.65

PLANETOCENTRIC CONIC

C3 62.937 VHL 7.933 OLA -25.65 RAL 28.53 RAD 6569.2 VEL 13.575 PTH 2.48 VHP 7.817 DPA 47.42 RAP 339.19 ECC 2.0358
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 1 33 1531.85 .74 1.68 270.16 118.31 6 27 5 931.8 4.52 355.04
 90.00 9 36 58 822.12 21.27 319.77 279.28 109.15 9 50 40 222.1 23.69 311.93
 100.00 6 57 30 1351.20 -1.99 346.89 268.64 119.83 7 20 1 751.2 1.99 340.37
 100.00 11 23 42 5766.04 24.23 273.44 280.36 108.06 12 59 48 5166.0 26.47 265.36
 110.00 7 19 16 1282.90 -7.75 338.16 265.08 123.40 7 40 39 682.9 -3.31 331.90
 110.00 13 18 25 5407.10 30.70 248.40 282.58 105.82 14 48 33 4807.1 32.56 239.68

DIFFERENTIAL CORRECTIONS

TDE-2.7883 TRA-1.3248 TC3 -.8467 BAU .7467
 RDE .2098 RRA -.2378 RC3 .2657 FAU .03692
 FDE-1.4003 FRA .0356 FC3 -.5078 BSP 8185
 BDE 2.7962 BRA 1.3460 BC3 .8874 FSP -354

MID-COURSE EXECUTION ACCURACY

SGT 2643.2 SGR 486.8 SG3 111.8
 RRT -.5201 RRF -.7961 RTF .8982
 SGB 2687.7 R23 .3713 R13 -.9040
 SG1 2655.6 SG2 413.8 THA 174.39

ORBIT DETERMINATION ACCURACY

ST 2039.2 SR 162.4 SS 683.3
 CRT -.8678 CRS .9390 CST -.9856
 LSA 2152.5 MSA 134.6 SSA 6.3
 EL1 2044.1 EL2 80.5 ALF 176.04

LAUNCH DATE MAR 14 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUL 4 1969

HELIOCENTRIC CONIC

DISTANCE 338.466

RL 148.75 LAL .00 LOL 173.24 VL 28.290 GAL -11.03 AZL 101.05 MCA 162.32 SMA 134.86 ECC .21641 INC11.0512 V1 29.955
 RP 108.88 LAP -3.34 LOP 335.87 VP 38.128 GAP 5.77 AZP 79.46 TAL 231.12 TAP 33.44 RCA 105.67 APO 164.04 V2 34.805
 RC 124.766 GL -39.43 GP 57.87 ZAL 134.59 ZAP 116.96 ETS 56.18 ZAE 108.65 ETE 145.31 ZAC 84.22 ETC 164.45 CLP-148.47

PLANETOCENTRIC CONIC

C3 70.233 VHL 8.381 OLA -29.23 RAL 32.61 RAD 6569.4 VEL 13.841 PTH 2.53 VHP 8.672 DPA 50.47 RAP 334.68 ECC 2.1559
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 82.43 7 2 59 1405.38 11.42 358.09 281.43 117.09 7 26 24 805.4 14.96 351.14
 97.57 9 8 5 1001.00 11.44 328.42 281.44 117.08 9 24 46 401.0 14.98 321.47
 100.00 8 34 6 1110.03 6.15 333.62 278.57 119.31 8 52 36 510.0 10.01 326.96
 100.00 10 19 39 771.58 16.80 314.15 284.15 115.09 10 32 31 171.6 20.05 306.86
 110.00 8 17 25 1162.54 -3.20 331.82 272.81 124.05 8 36 48 562.5 1.29 325.62
 110.00 12 52 49 5579.88 26.88 260.38 288.86 111.96 14 25 49 4979.9 29.61 252.26

DIFFERENTIAL CORRECTIONS

TDE-3.3122 TRA-1.1683 TC3 -.7627 BAU .7425
 RDE .1634 RRA -.3592 RC3 .2088 FAU .03042
 FDE-1.3928 FRA .1153 FC3 -.3750 BSP 8556
 BDE 3.3162 BRA 1.2223 BC3 .7908 FSP -314

MID-COURSE EXECUTION ACCURACY

SGT 2756.8 SGR 462.8 SG3 98.9
 RRT -.3471 RRF -.6641 RTF .9119
 SGB 2795.4 R23 .3621 R13 -.9153
 SG1 2761.6 SG2 433.3 THA 176.58

ORBIT DETERMINATION ACCURACY

ST 2281.4 SR 140.4 SS 713.9
 CRT -.7185 CRS .8136 CST -.9889
 LSA 2390.5 MSA 139.7 SSA 4.9
 EL1 2283.6 EL2 97.6 ALF 177.46

LAUNCH DATE MAR 14 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 6 1969

HELIOCENTRIC CONIC

DISTANCE 344.251

RL 148.75 LAL .00 LOL 173.24 VL 28.206 GAL -10.75 AZL 103.48 MCA 165.42 SMA 134.21 ECC .21474 INC13.4812 V1 29.955
 RP 108.86 LAP -3.37 LOP 339.04 VP 38.071 GAP 5.97 AZP 76.94 TAL 229.54 TAP 34.95 RCA 105.39 APO 163.03 V2 34.811
 RC 127.128 GL -44.96 GP 62.81 ZAL 128.81 ZAP 111.19 ETS 63.18 ZAE 104.00 ETE 148.18 ZAC 81.81 ETC 166.92 CLP-153.76

PLANETOCENTRIC CONIC

C3 83.623 VHL 9.145 OLA -33.22 RAL 37.80 RAD 6569.6 VEL 14.317 PTH 2.60 VHP 9.937 DPA 53.43 RAP 328.01 ECC 2.3762
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.86 6 8 3 1684.67 11.41 19.09 289.83 121.41 6 36 7 1084.7 15.49 12.43
 108.14 10 44 26 802.46 11.43 313.50 289.84 121.40 10 57 49 202.5 15.50 306.83
 71.86 6 8 3 1684.67 11.41 19.09 289.83 121.41 6 36 7 1084.7 15.49 12.43
 108.14 10 44 26 802.46 11.43 313.50 289.84 121.40 10 57 49 202.5 15.50 306.83
 110.00 9 54 27 955.95 4.69 321.03 285.48 123.90 10 10 23 355.9 9.11 314.73
 110.00 11 57 12 5867.22 18.32 278.27 294.02 119.38 13 35 0 5267.2 22.09 271.17

DIFFERENTIAL CORRECTIONS

TDE-4.0494 TRA -.9064 TC3 -.6268 BAU .7167
 RDE -.0301 RRA -.5106 RC3 .1346 FAU .02377
 FDE-1.3945 FRA .1722 FC3 -.2461 BSP 8947
 BDE 4.0495 BRA 1.0403 BC3 .6411 FSP -272

MID-COURSE EXECUTION ACCURACY

SGT 2865.7 SGR 455.2 SG3 85.6
 RRT .0193 RRF -.3183 RTF .9312
 SGB 2901.6 R23 -.3369 R13 .9310
 SG1 2865.7 SG2 455.1 THA .18

ORBIT DETERMINATION ACCURACY

ST 2545.6 SR 116.5 SS 751.0
 CRT .2392 CRS -.1171 CST -.9923
 LSA 2652.7 MSA 144.3 SSA 3.7
 EL1 2545.7 EL2 113.1 ALF .63

LAUNCH DATE MAR 14 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 8 1969

HELIOCENTRIC CONIC

DISTANCE 349.987

RL 148.75 LAL .00 LOL 173.24 VL 28.122 GAL -10.45 AZL 107.18 MCA 168.47 SMA 133.57 ECC .21306 INC17.1833 V1 29.955
 RP 108.84 LAP -3.39 LOP 342.21 VP 38.015 GAP 6.16 AZP 73.14 TAL 227.92 TAP 36.39 RCA 105.11 APO 162.03 V2 34.818
 RC 129.481 GL -51.08 GP 68.41 ZAL 122.05 ZAP 110.57 ETS 73.33 ZAE 98.27 ETE 154.40 ZAC 78.29 ETC 172.73 CLP-162.73

PLANETOCENTRIC CONIC

C3 110.264 VHL 10.501 OLA -37.29 RAL 44.59 RAD 6570.1 VEL 15.218 PTH 2.73 VHP 11.955 DPA 55.66 RAP 318.25 ECC 2.8147
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.65 5 53 54 1868.75 10.26 32.86 300.83 126.05 6 25 3 1268.7 14.89 26.60
 115.35 11 52 47 738.14 10.28 307.64 300.84 126.05 12 5 5 138.1 14.91 301.37
 64.65 5 53 54 1868.75 10.26 32.86 300.83 126.05 6 25 3 1268.7 14.89 26.60
 115.35 11 52 47 738.14 10.28 307.64 300.84 126.05 12 5 5 138.1 14.91 301.37
 64.65 5 53 54 1868.75 10.26 32.86 300.83 126.05 6 25 3 1268.7 14.89 26.60
 115.35 11 52 47 738.14 10.28 307.64 300.84 126.05 12 5 5 138.1 14.91 301.37

DIFFERENTIAL CORRECTIONS

TDE-5.0909 TRA -.4271 TC3 -.4319 BAU .6412
 RDE -.6752 RRA -.6730 RC3 .0513 FAU .01687
 FDE-1.4211 FRA .2361 FC3 -.1325 BSP 9230
 BDE 5.1355 BRA .7971 BC3 .4350 FSP -228

MID-COURSE EXECUTION ACCURACY

SGT 2936.8 SGR 600.3 SG3 72.5
 RRT .6017 RRF .3590 RTF .9567
 SGB 2997.5 R23 -.2906 R13 .9510
 SG1 2959.5 SG2 475.8 THA 7.20

ORBIT DETERMINATION ACCURACY

ST 2779.3 SR 393.6 SS 802.5
 CRT .9466 CRS -.9121 CST -.9956
 LSA 2915.8 MSA 147.6 SSA 2.7
 EL1 2804.2 EL2 125.8 ALF 7.65

LAUNCH DATE MAR 14 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 10 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 28.039 GAL -10.13 AZL 113.46 HCA 171.45 SMA 132.94 ECC .21126 INC23.4585 VI 29.955
 RP 108.82 LAP -3.39 LOP 345.39 VP 37.960 GAP 6.31 AZP 66.77 TAL 226.23 TAP 37.68 RCA 104.86 APO 161.03 V2 34.825
 RC 131.823 GL -57.07 GP 73.88 ZAL 114.37 ZAP 106.11 ETS 91.75 ZAE 90.82 ETE 169.24 ZAC 72.95 ETC 187.20 CLP 177.76

PLANETOCENTRIC CONIC
 C3 171.365 VHL 13.091 CLA -40.51 RAL 53.57 RAD 6570.9 VEL 17.108 PTH 2.93 VHP 15.526 DPA 55.84 RAP 304.82 ECC 3.8202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.72 6 6 1 2019.46 7.42 43.16 314.79 129.94 6 39 41 1419.5 12.50 37.31
 120.28 12 52 17 753.00 7.43 306.62 314.80 129.94 13 4 50 153.0 12.52 300.76
 59.72 6 6 1 2019.46 7.42 43.16 314.79 129.94 6 39 41 1419.5 12.50 37.31
 120.28 12 52 17 753.00 7.43 306.62 314.80 129.94 13 4 50 153.0 12.52 300.76
 59.72 6 6 1 2019.46 7.42 43.16 314.79 129.94 6 39 41 1419.5 12.50 37.31
 120.28 12 52 17 753.00 7.43 306.62 314.80 129.94 13 4 50 153.0 12.52 300.76

DIFFERENTIAL CORRECTIONS
 TOE-6.2253 TRA .5117 TC3 -.1967 BAU .4507 SGT 2788.6 SGR 1305.0 SG3 60.8 ST 2726.2 SR 1259.0 SS 896.3
 ROE-2.8660 RRA -.6249 RC3 -.0029 FAU .00934 RRT .9112 RRF .8359 RTF .9858 CRT .9930 CRS -.9853 CST -.9986
 FDE-1.5209 FRA .3314 FC3 -.0472 BSP 9520 SGB 3078.8 R23 -.2211 R13 .9725 LSA 3130.2 MSA 149.3 SSA 2.0
 BDE 6.8534 BRA .8077 BC3 .1967 FSP -191 SG1 3039.0 SG2 493.3 THA 23.76 EL1 2999.9 EL2 135.1 ALF 24.69

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 12 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 27.956 GAL -9.76 AZL 126.00 HCA 174.22 SMA 132.33 ECC .20901 INC35.9993 VI 29.955
 RP 108.79 LAP -3.39 LOP 348.56 VP 37.906 GAP 6.40 AZP 54.14 TAL 224.44 TAP 38.66 RCA 104.67 APO 159.99 V2 34.833
 RC 134.153 GL -60.22 GP 74.50 ZAL 106.21 ZAP 101.04 ETS 127.96 ZAE 80.06 ETE 202.20 ZAC 64.01 ETC 220.01 CLP 135.78

PLANETOCENTRIC CONIC
 C3 348.089 VHL 18.657 CLA -40.33 RAL 64.71 RAD 6571.9 VEL 21.665 PTH 3.22 VHP 22.830 DPA 51.14 RAP 289.15 ECC 6.7287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.99 6 51 42 2113.39 3.13 47.54 331.01 130.23 7 26 55 1513.4 8.27 41.79
 120.01 13 35 31 853.79 3.14 311.58 331.02 130.23 13 49 44 253.8 8.28 305.84
 59.99 6 51 42 2113.39 3.13 47.54 331.01 130.23 7 26 55 1513.4 8.27 41.79
 120.01 13 35 31 853.79 3.14 311.58 331.02 130.23 13 49 44 253.8 8.28 305.84
 59.99 6 51 42 2113.39 3.13 47.54 331.01 130.23 7 26 55 1513.4 8.27 41.79
 120.01 13 35 31 853.79 3.14 311.58 331.02 130.23 13 49 44 253.8 8.28 305.84

DIFFERENTIAL CORRECTIONS
 TOE-4.2714 TRA 1.9143 TC3 -.0187 BAU .3150 SGT 1523.2 SGR 2702.6 SG3 51.6 ST 1332.0 SR 2667.3 SS 1097.5
 ROE-8.6775 RRA .9421 RC3 .0651 FAU-.00224 RRT .9161 RRF .9686 RTF .9864 CRT .9913 CRS -.9969 CST -.9986
 FDE-1.7983 FRA .5588 FC3 .0056 BSP 9504 SGB 3102.3 R23 -.1541 R13 .9877 LSA 3172.6 MSA 166.1 SSA 1.0
 BDE 9.6718 BRA 2.1336 BC3 .0677 FSP -161 SG1 3054.9 SG2 540.3 THA 61.73 EL1 2977.2 EL2 157.0 ALF 63.58

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 14 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 27.874 GAL -9.23 AZL 156.05 HCA 176.30 SMA 131.73 ECC .20498 INC66.0535 VI 29.955
 RP 108.77 LAP -3.38 LOP 351.74 VP 37.853 GAP 6.29 AZP 23.99 TAL 222.29 TAP 38.59 RCA 104.73 APO 158.73 V2 34.841
 RC 136.471 GL -52.31 GP 59.96 ZAL 98.95 ZAP 96.23 ETS 162.87 ZAE 61.38 ETE 232.84 ZAC 46.20 ETC 251.82 CLP 102.53

PLANETOCENTRIC CONIC
 C31009.540 VHL 31.773 CLA -29.98 RAL 75.01 RAD 6573.0 VEL 33.628 PTH 3.50 VHP 39.610 DPA 35.53 RAP 276.12 ECC17.6145
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 79.70 9 30 59 1831.16 -.23 23.16 345.39 119.98 10 1 30 1231.2 3.76 16.64
 100.30 12 18 20 1291.50 -.21 343.48 345.40 119.98 12 39 51 691.5 3.78 336.96
 79.70 9 30 59 1831.16 -.23 23.16 345.39 119.98 10 1 30 1231.2 3.76 16.64
 100.30 12 18 20 1291.50 -.21 343.48 345.40 119.98 12 39 51 691.5 3.78 336.96
 110.00 11 17 14 1484.70 -15.11 349.17 336.58 121.04 11 41 59 884.7 10.88 342.62
 110.00 15 31 15 685.95 14.64 306.46 354.22 121.24 15 42 41 86.0 18.67 299.67

DIFFERENTIAL CORRECTIONS
 TOE 2.6221 TRA 1.7260 TC3 -.0448 BAU 2.3973 SGT 658.5 SGR 2799.8 SG3 46.3 ST 485.0 SR 2329.4 SS 1480.3
 RO-12.7720 RRA 5.5632 RC3 .1719 FAU-.03533 RRT -.5335 RRF .9962 RTF -.4585 CRT -.9309 CRS -.9995 CST -.9183
 FDE-2.3584 FRA 1.2594 FC3 .0303 BSP 8872 SGB 2876.2 R23 -.1117 R13 .9937 LSA 2796.2 MSA 183.8 SSA .5
 BDE13.0383 BRA 5.8248 BC3 .1776 FSP -148 SG1 2822.7 SG2 552.5 THA 97.44 EL1 2373.0 EL2 173.9 ALF 101.03

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 16 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 27.792 GAL -9.84 AZL 26.49 HCA 183.75 SMA 131.14 ECC .21608 INC63.5110 VI 29.955
 RP 108.74 LAP -3.36 LOP 354.91 VP 37.802 GAP 7.72 AZP 153.46 TAL 222.41 TAP 46.16 RCA 102.80 APO 159.47 V2 34.850
 RC 138.775 GL 52.97 GP -60.38 ZAL 99.79 ZAP 97.78 ETS 187.39 ZAE 67.13 ETE 117.67 ZAC 75.62 ETC 98.89 CLP 105.90

PLANETOCENTRIC CONIC
 C3 942.548 VHL 30.701 CLA 72.31 RAL 38.80 RAD 6572.9 VEL 32.616 PTH 3.49 VHP 38.719 DPA -84.59 RAP 296.60 ECC16.5120
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 20.19 15 8 47 5085.48 .21 248.38 308.88 17.69 16 33 33 4485.5 -7.41 246.36
 159.81 1 51 42 3318.83 .22 95.56 308.86 17.69 2 47 1 2718.8 -7.40 93.53
 20.19 15 8 47 5085.48 .21 248.38 308.88 17.69 16 33 33 4485.5 -7.41 246.36
 159.81 1 51 42 3318.83 .22 95.56 308.86 17.69 2 47 1 2718.8 -7.40 93.53
 20.19 15 8 47 5085.48 .21 248.38 308.88 17.69 16 33 33 4485.5 -7.41 246.36
 159.81 1 51 42 3318.83 .22 95.56 308.86 17.69 2 47 1 2718.8 -7.40 93.53

DIFFERENTIAL CORRECTIONS
 TOE-1.7557 TRA 1.0572 TC3 -.0675 BAU 2.3334 SGT 837.0 SGR 2908.8 SG3 46.8 ST 381.4 SR 2617.6 SS 1671.1
 RO-13.9755 RRA 1.1938 RC3 -.1724 FAU-.03163 RRT .7267 RRF -.9982 RTF -.6857 CRT .8993 CRS .9999 CST .8921
 FDE 2.6704 FRA -.1843 FC3 .0290 BSP 9314 SGB 3026.9 R23 -.0987 R13 -.9950 LSA 3124.4 MSA 168.9 SSA 1.0
 BDE14.0854 BRA 1.5946 BC3 .1852 FSP -154 SG1 2974.2 SG2 562.3 THA 77.74 EL1 2640.1 EL2 165.3 ALF 82.51

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 18 1969

HELIOCENTRIC CONIC

DISTANCE 380.651

RL 148.75 LAL .00 LOL 173.24 VL 27.712 GAL -9.31 AZL 55.54 HCA 185.88 SMA 130.56 ECC .21225 INC34.4625 V1 29.955
 RP 108.71 LAP -3.32 LOP 358.09 VP 37.751 GAP 7.61 AZP 124.32 TAL 220.33 TAP 46.21 RCA 102.85 APO 158.27 V2 34.860
 RC 141.067 GL 60.07 GP -72.74 ZAL 106.10 ZAP 103.30 ETS 223.22 ZAE 85.59 ETE 151.11 ZAC 93.65 ETC 135.02 CLP 140.85

PLANETOCENTRIC CONIC

C3 318.809 VHL 17.855 CLA 71.08 RAL .54 RAD 6571.8 VEL 20.979 PTH 3.19 VHP 22.479 DPA -73.97 RAP 52.45 ECC 6.2468
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 21.61 12 39 7 4997.72 -5.22 246.14 268.76 19.00 14 2 25 4397.7 -12.77 243.89
 158.39 23 12 9 3237.97 -5.21 94.78 268.73 19.00 24 6 7 2638.0 -12.77 92.54
 21.61 12 39 7 4997.72 -5.22 246.14 268.76 19.00 14 2 25 4397.7 -12.77 243.89
 158.39 23 12 9 3237.97 -5.21 94.78 268.73 19.00 24 6 7 2638.0 -12.77 92.54
 21.61 12 39 7 4997.72 -5.22 246.14 268.76 19.00 14 2 25 4397.7 -12.77 243.89
 158.39 23 12 9 3237.97 -5.21 94.78 268.73 19.00 24 6 7 2638.0 -12.77 92.54

DIFFERENTIAL CORRECTIONS

TDE 3.3949 TRA -.9470 TC3 -.0193 BAU .2684
 RDE -3.9669 RRA 2.8469 RC3 -.0600 FAU .00212
 FDE 1.1489 FRA -3.0091 FC3 -.0058 BSP 10556
 BDE 5.2213 BRA 3.0093 BC3 .0630 FSP -175

MID-COURSE EXECUTION ACCURACY

SGT 1438.7 SGR 3099.1 SG3 54.0
 RRT -.9000 RRF -.9734 RTF .9739
 SGB 3416.8 R23 -.1519 R13 -.9874
 SG1 3367.6 SG2 577.2 THA 113.40

ORBIT DETERMINATION ACCURACY

ST 1125.1 SR 1528.0 SS 773.9
 CRT -.9449 CRS .9806 CST -.9907
 LSA 2026.3 MSA 306.1 SSA 1.6
 EL1 1873.6 EL2 300.5 ALF 125.89

LAUNCH DATE MAR 14 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 20 1969

HELIOCENTRIC CONIC

DISTANCE 386.063

RL 148.75 LAL .00 LOL 173.24 VL 27.632 GAL -8.91 AZL 67.70 HCA 188.67 SMA 129.99 ECC .21047 INC22.2976 V1 29.955
 RP 108.68 LAP -3.28 LOP 1.27 VP 37.702 GAP 7.69 AZP 112.07 TAL 218.47 TAP 47.15 RCA 102.63 APO 157.35 V2 34.870
 RC 143.344 GL 57.19 GP -70.19 ZAL 112.67 ZAP 109.73 ETS 266.69 ZAE 96.34 ETE 192.80 ZAC 103.64 ETC 177.89 CLP 174.96

PLANETOCENTRIC CONIC

C3 151.879 VHL 12.324 DLA 64.62 RAL 356.13 RAD 6570.7 VEL 16.529 PTH 2.88 VHP 15.477 DPA -62.06 RAP 52.77 ECC 3.4995
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 29.13 12 38 8 4866.01 -11.64 238.71 260.53 25.95 13 59 14 4266.0 -18.81 235.44
 150.87 22 37 56 3152.51 -11.64 95.49 260.51 25.95 23 30 28 2552.5 -18.80 92.22
 29.13 12 38 8 4866.01 -11.64 238.71 260.53 25.95 13 59 14 4266.0 -18.81 235.44
 150.87 22 37 56 3152.51 -11.64 95.49 260.51 25.95 23 30 28 2552.5 -18.80 92.22
 29.13 12 38 8 4866.01 -11.64 238.71 260.53 25.95 13 59 14 4266.0 -18.81 235.44
 150.87 22 37 56 3152.51 -11.64 95.49 260.51 25.95 23 30 28 2552.5 -18.80 92.22

DIFFERENTIAL CORRECTIONS

TDE 2.7416 TRA -2.7470 TC3 -.2308 BAU .4727
 RDE -.1358 RRA 1.3068 RC3 .0305 FAU .01508
 FDE .8056 FRA -.5624 FC3 -.0859 BSP 11092
 BDE 2.7449 BRA 3.0419 BC3 .2328 FSP -210

MID-COURSE EXECUTION ACCURACY

SGT 3290.5 SGR 1421.0 SG3 64.5
 RRT -.9298 RRF -.8525 RTF .9834
 SGB 3584.2 R23 -.2226 R13 -.9725
 SG1 3551.3 SG2 484.7 THA 157.69

ORBIT DETERMINATION ACCURACY

ST 1556.9 SR 429.9 SS 557.5
 CRT -.6882 CRS .5663 CST -.9877
 LSA 1677.9 MSA 322.8 SSA 2.0
 EL1 1585.9 EL2 306.2 ALF 168.82

LAUNCH DATE MAR 14 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 22 1969

HELIOCENTRIC CONIC

DISTANCE 391.665

RL 148.75 LAL .00 LOL 173.24 VL 27.553 GAL -8.55 AZL 73.84 HCA 191.67 SMA 129.44 ECC .20938 INC16.1647 V1 29.955
 RP 108.65 LAP -3.23 LOP 4.46 VP 37.654 GAP 7.82 AZP 105.85 TAL 216.67 TAP 48.34 RCA 102.34 APO 156.54 V2 34.880
 RC 145.608 GL 51.99 GP -63.63 ZAL 118.31 ZAP 116.04 ETS 283.54 ZAE 103.81 ETE 207.35 ZAC 110.57 ETC 193.40 CLP-171.30

PLANETOCENTRIC CONIC

C3 92.687 VHL 9.627 DLA 58.85 RAL 359.25 RAD 6569.8 VEL 14.630 PTH 2.65 VHP 12.102 DPA -52.84 RAP 50.98 ECC 2.5254
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 35.98 13 7 20 4738.00 -16.71 230.20 258.81 32.69 14 26 18 4138.0 -23.39 225.92
 144.02 22 33 38 3083.01 -16.70 95.13 258.79 32.68 23 25 1 2483.0 -23.38 90.85
 35.98 13 7 20 4738.00 -16.71 230.20 258.81 32.69 14 26 18 4138.0 -23.39 225.92
 144.02 22 33 38 3083.01 -16.70 95.13 258.79 32.68 23 25 1 2483.0 -23.38 90.85
 35.98 13 7 20 4738.00 -16.71 230.20 258.81 32.69 14 26 18 4138.0 -23.39 225.92
 144.02 22 33 38 3083.01 -16.70 95.13 258.79 32.68 23 25 1 2483.0 -23.38 90.85

DIFFERENTIAL CORRECTIONS

TDE 1.9636 TRA -2.8528 TC3 -.5765 BAU .7146
 RDE .4434 RRA .4567 RC3 -.0133 FAU .02318
 FDE .7455 FRA -.5659 FC3 -.2165 BSP 11533
 BDE 2.0130 BRA 2.8891 BC3 .5767 FSP -253

MID-COURSE EXECUTION ACCURACY

SGT 3656.9 SGR 588.6 SG3 77.0
 RRT -.6449 RRF -.4086 RTF .9567
 SGB 3703.9 R23 -.2849 R13 -.9531
 SG1 3676.8 SG2 447.4 THA 173.98

ORBIT DETERMINATION ACCURACY

ST 1528.5 SR 307.4 SS 507.0
 CRT .3260 CRS -.5789 CST -.9595
 LSA 1608.4 MSA 317.7 SSA 2.8
 EL1 1531.9 EL2 290.0 ALF 3.89

LAUNCH DATE MAR 14 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 24 1969

HELIOCENTRIC CONIC

DISTANCE 397.339

RL 148.75 LAL .00 LOL 173.24 VL 27.475 GAL -8.19 AZL 77.47 HCA 194.74 SMA 128.90 ECC .20864 INC12.5308 V1 29.955
 RP 108.61 LAP -3.16 LOP 7.64 VP 37.607 GAP 7.97 AZP 102.13 TAL 214.89 TAP 49.63 RCA 102.01 APO 155.80 V2 34.891
 RC 147.857 GL 46.74 GP -57.05 ZAL 122.78 ZAP 121.86 ETS 290.38 ZAE 109.46 ETE 211.40 ZAC 116.02 ETC 198.38 CLP-166.05

PLANETOCENTRIC CONIC

C3 65.644 VHL 8.102 DLA 53.98 RAL 3.38 RAD 6569.2 VEL 13.675 PTH 2.50 VHP 10.255 DPA -45.11 RAP 49.67 ECC 2.0803
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 41.91 13 40 2 4625.56 -20.02 221.70 258.03 38.75 14 57 7 4025.6 -26.17 216.55
 138.09 22 33 55 3036.70 -20.00 94.49 258.02 38.74 23 24 32 2436.7 -26.15 89.33
 41.91 13 40 2 4625.56 -20.02 221.70 258.03 38.75 14 57 7 4025.6 -26.17 216.55
 138.09 22 33 55 3036.70 -20.00 94.49 258.02 38.74 23 24 32 2436.7 -26.15 89.33
 41.91 13 40 2 4625.56 -20.02 221.70 258.03 38.75 14 57 7 4025.6 -26.17 216.55
 138.09 22 33 55 3036.70 -20.00 94.49 258.02 38.74 23 24 32 2436.7 -26.15 89.33

DIFFERENTIAL CORRECTIONS

TDE 1.5713 TRA -2.7191 TC3 -.9472 BAU .8339
 RDE .4904 RRA .1741 RC3 -.0756 FAU .02924
 FDE .7184 FRA -.5431 FC3 -.3856 BSP 11802
 BDE 1.6460 BRA 2.7247 BC3 .9502 FSP -292

MID-COURSE EXECUTION ACCURACY

SGT 3779.2 SGR 423.2 SG3 89.6
 RRT -.0694 RRF .2645 RTF .9338
 SGB 3802.8 R23 -.3309 R13 -.9335
 SG1 3779.3 SG2 422.2 THA 179.55

ORBIT DETERMINATION ACCURACY

ST 1482.9 SR 352.5 SS 482.8
 CRT .6198 CRS -.8538 CST -.9376
 LSA 1568.3 MSA 311.1 SSA 3.7
 EL1 1499.5 EL2 273.6 ALF 8.67

LAUNCH DATE MAR 14 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 26 1969

HELIOCENTRIC CONIC

DISTANCE 403.044

RL 148.75 LAL .00 LOL 173.24 VL 27.398 GAL -7.84 AZL 79.87 MCA 197.85 SMA 128.37 ECC .20814 INC10.1328 V1 29.955
 RP 108.58 LAP -3.09 LOP 10.83 VP 37.561 GAP 8.13 AZP 99.65 TAL 213.11 TAP 50.95 RCA 101.65 APO 155.09 V2 34.902
 RC 150.092 GL 41.98 GP -51.15 ZAL 126.12 ZAP 127.07 ETS 294.03 ZAE 113.86 ETE 211.98 ZAC 120.59 ETC 199.91 CLP-163.92

PLANETOCENTRIC CONIC

C3 50.959 VHL 7.139 DLA 49.91 RAL 7.39 RAD 6568.9 VEL 13.127 PTH 2.40 VHP 9.156 DPA -38.46 RAP 48.98 ECC 1.8386
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 47.02 14 11 37 4528.18 -21.96 213.73 257.57 43.98 15 27 5 3928.2 -27.59 207.88
 132.98 22 34 20 3010.18 -21.94 94.03 257.55 43.97 23 24 30 2410.2 -27.58 88.19
 47.02 14 11 37 4528.18 -21.96 213.73 257.57 43.98 15 27 5 3928.2 -27.59 207.88
 132.98 22 34 20 3010.18 -21.94 94.03 257.55 43.97 23 24 30 2410.2 -27.58 88.19
 47.02 14 11 37 4528.18 -21.96 213.73 257.57 43.98 15 27 5 3928.2 -27.59 207.88
 132.98 22 34 20 3010.18 -21.94 94.03 257.55 43.97 23 24 30 2410.2 -27.58 88.19

DIFFERENTIAL CORRECTIONS

TDE 1.3237 TRA-2.5796 TC3-1.3269 BAU .9081
 RDE .4550 RRA .0681 RC3 -.1267 FAU .03393
 FDE .6836 FRA -.5041 FC3 -.5765 BSP 12186
 BDE 1.3997 BRA 2.5805 BC3 1.3329 FSP -332.

MID-COURSE EXECUTION ACCURACY

SGT 3879.9 SGR 416.3 SG3 101.2
 RRT .2836 RRF .6068 RTF .9154
 SGB 3902.2 R23 .3592 R13 .9165
 SG1 3881.8 SG2 399.0 THA 1.76

ORBIT DETERMINATION ACCURACY

ST 1436.1 SR 366.2 SS 459.4
 CRT .6919 CRS -.9206 CST -.9187
 LSA 1521.2 MSA 305.7 SSA 4.9
 EL1 1459.0 EL2 260.2 ALF 10.34

LAUNCH DATE MAR 14 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 28 1969

HELIOCENTRIC CONIC

DISTANCE 408.764

RL 148.75 LAL .00 LOL 173.24 VL 27.322 GAL -7.48 AZL 81.57 MCA 200.98 SMA 127.86 ECC .20783 INC 8.4281 V1 29.955
 RP 108.54 LAP -3.01 LOP 14.01 VP 37.516 GAP 8.30 AZP 97.88 TAL 211.32 TAP 52.30 RCA 101.29 APO 154.43 V2 34.914
 RC 152.312 GL 37.81 GP -46.02 ZAL 128.46 ZAP 131.64 ETS 296.43 ZAE 117.31 ETE 211.20 ZAC 124.55 ETC 200.08 CLP-163.13

PLANETOCENTRIC CONIC

C3 41.947 VHL 6.477 DLA 46.53 RAL 11.13 RAD 6568.6 VEL 12.779 PTH 2.32 VHP 8.469 DPA -32.70 RAP 48.83 ECC 1.6903
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 51.40 14 41 26 4442.73 -23.01 206.45 257.41 48.37 15 55 29 3842.7 -28.17 200.09
 128.60 22 34 18 2998.03 -22.99 93.93 257.40 48.36 23 24 16 2398.0 -28.16 87.57
 51.40 14 41 26 4442.73 -23.01 206.45 257.41 48.37 15 55 29 3842.7 -28.17 200.09
 128.60 22 34 18 2998.03 -22.99 93.93 257.40 48.36 23 24 16 2398.0 -28.16 87.57
 51.40 14 41 26 4442.73 -23.01 206.45 257.41 48.37 15 55 29 3842.7 -28.17 200.09
 128.60 22 34 18 2998.03 -22.99 93.93 257.40 48.36 23 24 16 2398.0 -28.16 87.57

DIFFERENTIAL CORRECTIONS

TDE 1.1496 TRA-2.4470 TC3-1.7028 BAU .9593
 RDE .4115 RRA .0237 RC3 -.1633 FAU .03736
 FDE .6405 FRA -.4520 FC3 -.7711 BSP 12522
 BDE 1.2210 BRA 2.4471 BC3 1.7106 FSP -364

MID-COURSE EXECUTION ACCURACY

SGT 3975.0 SGR 422.1 SG3 111.2
 RRT .4414 RRF .7358 RTF .9008
 SGB 3997.3 R23 .3728 R13 .9024
 SG1 3979.4 SG2 378.3 THA 2.71

ORBIT DETERMINATION ACCURACY

ST 1389.2 SR 364.2 SS 434.3
 CRT .7155 CRS -.9476 CST -.9009
 LSA 1469.8 MSA 301.2 SSA 6.2
 EL1 1414.2 EL2 249.9 ALF 10.97

LAUNCH DATE MAR 14 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 30 1969

HELIOCENTRIC CONIC

DISTANCE 414.490

RL 148.75 LAL .00 LOL 173.24 VL 27.247 GAL -7.12 AZL 82.85 MCA 204.13 SMA 127.36 ECC .20770 INC 7.1492 V1 29.955
 RP 108.50 LAP -2.92 LOP 17.20 VP 37.473 GAP 8.47 AZP 96.53 TAL 209.52 TAP 53.65 RCA 100.90 APO 153.81 V2 34.926
 RC 154.516 GL 34.17 GP -41.61 ZAL 129.96 ZAP 135.64 ETS 298.19 ZAE 120.02 ETE 209.86 ZAC 128.09 ETC 199.66 CLP-163.01

PLANETOCENTRIC CONIC

C3 35.894 VHL 5.991 DLA 43.73 RAL 14.63 RAD 6568.4 VEL 12.540 PTH 2.27 VHP 8.025 DPA -27.70 RAP 49.11 ECC 1.5907
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 55.17 15 9 37 4366.41 -23.52 199.87 257.58 52.00 16 22 23 3766.4 -28.28 193.14
 124.83 22 34 3 2995.62 -23.51 94.18 257.57 52.00 23 23 59 2395.6 -28.27 87.44
 55.17 15 9 37 4366.41 -23.52 199.87 257.58 52.00 16 22 23 3766.4 -28.28 193.14
 124.83 22 34 3 2995.62 -23.51 94.18 257.57 52.00 23 23 59 2395.6 -28.27 87.44
 55.17 15 9 37 4366.41 -23.52 199.87 257.58 52.00 16 22 23 3766.4 -28.28 193.14
 124.83 22 34 3 2995.62 -23.51 94.18 257.57 52.00 23 23 59 2395.6 -28.27 87.44

DIFFERENTIAL CORRECTIONS

TDE 1.0200 TRA-2.3196 TC3-2.0716 BAU .9981
 RDE .3747 RRA .0039 RC3 -.1872 FAU .03967
 FDE .5931 FRA -.3913 FC3 -.9567 BSP 12814
 BDE 1.0866 BRA 2.3196 BC3 2.0800 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 4066.6 SGR 422.8 SG3 119.2
 RRT .5179 RRF .7846 RTF .8890
 SGB 4088.5 R23 .3746 R13 .8908
 SG1 4072.6 SG2 361.2 THA 3.11

ORBIT DETERMINATION ACCURACY

ST 1343.6 SR 358.4 SS 408.5
 CRT .7239 CRS -.9626 CST -.8830
 LSA 1418.4 MSA 297.6 SSA 7.7
 EL1 1369.2 EL2 242.6 ALF 11.29

LAUNCH DATE MAR 14 1969

FLIGHT TIME 140.00

ARRIVAL DATE AUG 1 1969

HELIOCENTRIC CONIC

DISTANCE 420.219

RL 148.75 LAL .00 LOL 173.24 VL 27.172 GAL -6.75 AZL 83.85 MCA 207.29 SMA 126.86 ECC .20774 INC 6.1497 V1 29.955
 RP 108.47 LAP -2.82 LOP 20.39 VP 37.430 GAP 8.65 AZP 95.47 TAL 207.71 TAP 55.00 RCA 100.51 APO 153.22 V2 34.938
 RC 156.704 GL 30.98 GP -37.84 ZAL 130.73 ZAP 139.13 ETS 299.58 ZAE 122.17 ETE 208.31 ZAC 131.31 ETC 198.99 CLP-163.23

PLANETOCENTRIC CONIC

C3 31.538 VHL 5.616 DLA 41.40 RAL 17.97 RAD 6568.3 VEL 12.366 PTH 2.23 VHP 7.734 DPA -23.32 RAP 49.72 ECC 1.5190
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 58.43 15 36 28 4297.09 -23.73 193.93 258.08 55.02 16 48 5 3697.1 -28.14 186.92
 121.57 22 33 51 2999.70 -23.72 94.71 258.06 55.01 23 23 50 2399.7 -28.12 87.70
 58.43 15 36 28 4297.09 -23.73 193.93 258.08 55.02 16 48 5 3697.1 -28.14 186.92
 121.57 22 33 51 2999.70 -23.72 94.71 258.06 55.01 23 23 50 2399.7 -28.12 87.70
 58.43 15 36 28 4297.09 -23.73 193.93 258.08 55.02 16 48 5 3697.1 -28.14 186.92
 121.57 22 33 51 2999.70 -23.72 94.71 258.06 55.01 23 23 50 2399.7 -28.12 87.70

DIFFERENTIAL CORRECTIONS

TDE .9174 TRA-2.1979 TC3-2.4387 BAU 1.0318
 RDE .3457 RRA -.0062 RC3 -.2032 FAU .04115
 FDE .5429 FRA -.3283 FC3-1.1295 BSP 13167
 BDE .9804 BRA 2.1979 BC3 2.4472 FSP -412

MID-COURSE EXECUTION ACCURACY

SGT 4161.3 SGR 420.1 SG3 125.7
 RRT .5606 RRF .7995 RTF .8803
 SGB 4182.5 R23 .3653 R13 .8821
 SG1 4168.0 SG2 347.3 THA 3.26

ORBIT DETERMINATION ACCURACY

ST 1298.9 SR 352.7 SS 381.6
 CRT .7266 CRS -.9726 CST -.8650
 LSA 1367.7 MSA 294.1 SSA 9.4
 EL1 1324.8 EL2 237.6 ALF 11.54

LAUNCH DATE MAR 14 1969

FLIGHT TIME 142.00

ARRIVAL DATE AUG 3 1969

HELIOCENTRIC CONIC

DISTANCE 425.982

RL 148.75 LAL .00 LOL 173.24 VL 27.099 GAL -6.37 AZL 84.66 HCA 210.45 SMA 126.39 ECC .20787 INC 5.3431 V1 29.955
 RP 108.43 LAP -2.71 LOP 23.58 VP 37.389 GAP 8.82 AZP 94.61 TAL 205.87 TAP 56.32 RCA 100.11 APO 152.66 V2 34.951
 RC 158.875 GL 28.18 GP -34.61 ZAL 130.87 ZAP 142.16 ETS 300.72 ZAE 123.88 ETE 206.75 ZAC 134.32 ETC 198.27 CLP-163.65

PLANETOCENTRIC CONIC

C3 28.203 VHL 5.311 CLA 39.49 RAL 21.23 RAD 6568.1 VEL 12.230 PTH 2.20 VHP 7.543 DPA -19.49 RAP 50.63 ECC 1.4641
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.24 16 2 8 4233.63 -23.80 188.57 258.89 57.51 17 12 42 3633.6 -27.91 181.35
 118.76 22 34 14 3007.13 -23.79 95.39 258.88 57.50 23 24 21 2407.1 -27.89 88.18
 61.24 16 2 8 4233.63 -23.80 188.57 258.89 57.51 17 12 42 3633.6 -27.91 181.35
 118.76 22 34 14 3007.13 -23.79 95.39 258.88 57.50 23 24 21 2407.1 -27.89 88.18
 61.24 16 2 8 4233.63 -23.80 188.57 258.89 57.51 17 12 42 3633.6 -27.91 181.35
 118.76 22 34 14 3007.13 -23.79 95.39 258.88 57.50 23 24 21 2407.1 -27.89 88.18

DIFFERENTIAL CORRECTIONS

TDE 1.1613 TRA-1.7530 TC3-2.3514 BAU .8875
 RDE .3945 RRA .0650 RC3 -.1056 FAU .03095
 FDE .7211 FRA -.0252 FC3 -.9500 BSP 5780
 BOE 1.2265 BRA 1.7542 BC3 2.3538 FSP 51

MID-COURSE EXECUTION ACCURACY

SGT 3716.6 SGR 449.4 SG3 110.1
 RRT .3536 RRF .7701 RTF .7560
 SGB 3743.7 R23 .5338 R13 .7586
 SG1 3720.0 SG2 420.0 THA 2.48

ORBIT DETERMINATION ACCURACY

ST 1454.6 SR 426.5 SS 507.5
 CRT .8276 CRS -.9965 CST -.8695
 LSA 1565.8 MSA 322.1 SSA 8.7
 EL1 1498.0 EL2 232.5 ALF 13.98

LAUNCH DATE MAR 14 1969

FLIGHT TIME 144.00

ARRIVAL DATE AUG 5 1969

HELIOCENTRIC CONIC

DISTANCE 431.674

RL 148.75 LAL .00 LOL 173.24 VL 27.027 GAL -5.99 AZL 85.33 HCA 213.63 SMA 125.92 ECC .20832 INC 4.6748 V1 29.955
 RP 108.39 LAP -2.59 LOP 26.78 VP 37.349 GAP 9.00 AZP 93.90 TAL 204.07 TAP 57.69 RCA 99.69 APO 152.15 V2 34.964
 RC 161.027 GL 25.65 GP -31.81 ZAL 130.55 ZAP 144.86 ETS 301.59 ZAE 125.25 ETE 205.21 ZAC 137.15 ETC 197.48 CLP-164.21

PLANETOCENTRIC CONIC

C3 25.620 VHL 5.062 CLA 37.83 RAL 24.43 RAD 6568.0 VEL 12.124 PTH 2.17 VHP 7.428 DPA -16.08 RAP 51.72 ECC 1.4216
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 63.79 16 27 14 4174.26 -23.74 183.60 259.96 59.63 17 36 48 3574.3 -27.58 176.23
 116.21 22 34 37 3018.81 -23.72 96.32 259.95 59.62 23 24 56 2418.8 -27.57 88.95
 63.79 16 27 14 4174.26 -23.74 183.60 259.96 59.63 17 36 48 3574.3 -27.58 176.23
 116.21 22 34 37 3018.81 -23.72 96.32 259.95 59.62 23 24 56 2418.8 -27.57 88.95
 63.79 16 27 14 4174.26 -23.74 183.60 259.96 59.63 17 36 48 3574.3 -27.58 176.23
 116.21 22 34 37 3018.81 -23.72 96.32 259.95 59.62 23 24 56 2418.8 -27.57 88.95

DIFFERENTIAL CORRECTIONS

TDE .7884 TRA-1.9368 TC3-3.1452 BAU 1.0798
 RDE .3114 RRA -.0103 RC3 -.2150 FAU .04157
 FDE .4585 FRA -.1876 FC3-1.4048 BSP 13466
 BOE .8477 BRA 1.9368 BC3 3.1525 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 4317.4 SGR 414.5 SG3 132.8
 RRT .5859 RRF .7788 RTF .8643
 SGB 4337.2 R23 .3324 R13 .8658
 SG1 4324.2 SG2 335.4 THA 3.24

ORBIT DETERMINATION ACCURACY

ST 1224.4 SR 352.6 SS 338.2
 CRT .7387 CRS -.9881 CST -.8283
 LSA 1286.0 MSA 289.4 SSA 12.9
 EL1 1252.8 EL2 232.3 ALF 12.44

LAUNCH DATE MAR 14 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 7 1969

HELIOCENTRIC CONIC

DISTANCE 437.397

RL 148.75 LAL .00 LOL 173.24 VL 26.956 GAL -5.60 AZL 85.89 HCA 216.80 SMA 125.46 ECC .20886 INC 4.1090 V1 29.955
 RP 108.35 LAP -2.46 LOP 29.97 VP 37.310 GAP 9.19 AZP 93.29 TAL 202.23 TAP 59.04 RCA 99.26 APO 151.67 V2 34.977
 RC 163.161 GL 23.37 GP -29.40 ZAL 129.75 ZAP 147.23 ETS 302.29 ZAE 126.36 ETE 203.78 ZAC 139.87 ETC 196.74 CLP-164.84

PLANETOCENTRIC CONIC

C3 23.492 VHL 4.847 CLA 36.45 RAL 27.65 RAD 6568.0 VEL 12.036 PTH 2.15 VHP 7.361 DPA -13.06 RAP 53.01 ECC 1.3866
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 66.02 16 51 41 4118.96 -23.65 179.05 261.31 61.41 18 0 20 3519.0 -27.27 171.57
 113.98 22 35 54 3031.51 -23.64 97.30 261.30 61.40 23 26 26 2431.5 -27.26 89.81
 66.02 16 51 41 4118.96 -23.65 179.05 261.31 61.41 18 0 20 3519.0 -27.27 171.57
 113.98 22 35 54 3031.51 -23.64 97.30 261.30 61.40 23 26 26 2431.5 -27.26 89.81
 66.02 16 51 41 4118.96 -23.65 179.05 261.31 61.41 18 0 20 3519.0 -27.27 171.57
 113.98 22 35 54 3031.51 -23.64 97.30 261.30 61.40 23 26 26 2431.5 -27.26 89.81

DIFFERENTIAL CORRECTIONS

TDE .7376 TRA-1.8088 TC3-3.5092 BAU 1.1043
 RDE .2998 RRA -.0114 RC3 -.2199 FAU .04133
 FDE .4151 FRA -.1242 FC3-1.5230 BSP 13782
 BOE .7962 BRA 1.8089 BC3 3.5161 FSP -428

MID-COURSE EXECUTION ACCURACY

SGT 4404.4 SGR 413.9 SG3 135.3
 RRT .5917 RRF .7584 RTF .8603
 SGB 4423.8 R23 .3057 R13 .8616
 SG1 4411.3 SG2 333.1 THA 3.20

ORBIT DETERMINATION ACCURACY

ST 1186.0 SR 354.5 SS 315.3
 CRT .7460 CRS -.9928 CST -.8097
 LSA 1245.0 MSA 285.5 SSA 15.0
 EL1 1216.3 EL2 230.2 ALF 13.04

LAUNCH DATE MAR 14 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 9 1969

HELIOCENTRIC CONIC

DISTANCE 443.114

RL 148.75 LAL .00 LOL 173.24 VL 26.886 GAL -5.19 AZL 86.38 HCA 219.99 SMA 125.02 ECC .20959 INC 3.6210 V1 29.955
 RP 108.31 LAP -2.33 LOP 33.17 VP 37.272 GAP 9.37 AZP 92.78 TAL 200.39 TAP 60.38 RCA 98.81 APO 151.22 V2 34.990
 RC 165.276 GL 21.28 GP -27.31 ZAL 128.54 ZAP 149.34 ETS 302.80 ZAE 127.27 ETE 202.46 ZAC 142.51 ETC 196.04 CLP-165.50

PLANETOCENTRIC CONIC

C3 21.720 VHL 4.660 CLA 35.27 RAL 30.93 RAD 6567.9 VEL 11.962 PTH 2.13 VHP 7.331 DPA -10.35 RAP 54.46 ECC 1.3575
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 68.03 17 15 52 4066.70 -23.54 174.82 262.92 62.94 18 23 39 3466.7 -26.97 167.24
 111.97 22 37 51 3045.66 -23.53 98.36 262.91 62.93 23 28 36 2445.7 -26.96 90.79
 68.03 17 15 52 4066.70 -23.54 174.82 262.92 62.94 18 23 39 3466.7 -26.97 167.24
 111.97 22 37 51 3045.66 -23.53 98.36 262.91 62.93 23 28 36 2445.7 -26.96 90.79
 68.03 17 15 52 4066.70 -23.54 174.82 262.92 62.94 18 23 39 3466.7 -26.97 167.24
 111.97 22 37 51 3045.66 -23.53 98.36 262.91 62.93 23 28 36 2445.7 -26.96 90.79

DIFFERENTIAL CORRECTIONS

TDE .6981 TRA-1.6747 TC3-3.8732 BAU 1.1266
 RDE .2916 RRA -.0109 RC3 -.2239 FAU .04072
 FDE .3755 FRA -.0619 FC3-1.6230 BSP 14056
 BOE .7566 BRA 1.6747 BC3 3.8797 FSP -433

MID-COURSE EXECUTION ACCURACY

SGT 4486.6 SGR 415.1 SG3 136.9
 RRT .5919 RRF .7339 RTF .8571
 SGB 4405.8 R23 .2776 R13 .8582
 SG1 4493.4 SG2 334.1 THA 3.15

ORBIT DETERMINATION ACCURACY

ST 1149.2 SR 358.6 SS 294.4
 CRT .7573 CRS -.9957 CST -.7907
 LSA 1207.0 MSA 280.9 SSA 17.3
 EL1 1182.2 EL2 227.6 ALF 13.82

LAUNCH DATE MAR 14 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 11 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 26.817 GAL -4.78 AZL 86.81 MCA 223.17 SMA 124.58 ECC .21049 INC 3.1935 V1 29.955
 RP 108.26 LAP -2.18 LOP 36.37 VP 37.234 GAP 9.57 AZP 92.33 TAL 198.54 TAP 61.72 RCA 98.36 APO 150.80 V2 35.003
 RC 167.370 GL 19.33 GP -25.49 ZAL 126.99 ZAP 151.24 ETS 303.14 ZAE 128.03 ETE 201.26 ZAC 145.09 ETC 195.39 CLP-166.20

PLANETOCENTRIC CONIC
 C3 20.222 VHL 4.497 CLA 34.25 RAL 34.28 RAD 6567.8 VEL 11.900 PTH 2.11 VHP 7.330 DPA -7.92 RAP 56.04 ECC 1.3328
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.88 17 40 1 4016.96 -23.42 170.84 264.79 64.27 18 46 58 3417.0 -26.68 163.19
 110.12 22 40 28 3061.09 -23.41 99.51 264.78 64.26 23 31 29 2461.1 -26.67 91.86
 69.88 17 40 1 4016.96 -23.42 170.84 264.79 64.27 18 46 58 3417.0 -26.68 163.19
 110.12 22 40 28 3061.09 -23.41 99.51 264.78 64.26 23 31 29 2461.1 -26.67 91.86
 69.88 17 40 1 4016.96 -23.42 170.84 264.79 64.27 18 46 58 3417.0 -26.68 163.19
 110.12 22 40 28 3061.09 -23.41 99.51 264.78 64.26 23 31 29 2461.1 -26.67 91.86

DIFFERENTIAL CORRECTIONS
 TDE .6660 TRA-1.5349 TC3-4.2392 BAU 1.1477 SGT 4566.6 SGR 418.2 SG3 137.8 ST 1112.1 SR 364.3 SS 274.8
 RDE .2859 RRA -.0093 RC3 -.2279 FAU .03987 RRT .5889 RRF .7076 RTF .8549 CRT .7721 CRS -.9960 CST -.7707
 FDE .3387 FRA -.0017 FC3-1.7071 BSP 14330 SGB 4585.7 R23 .2491 R13 .8559 LSA 1170.0 MSA 275.3 SSA 19.7
 BDE .7247 BRA 1.5349 BC3 4.2454 FSP -436 SG1 4573.2 SG2 337.5 THA 3.10 EL1 1148.6 EL2 224.1 ALF 14.77

LAUNCH DATE MAR 14 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 13 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 26.749 GAL -4.36 AZL 87.19 MCA 226.37 SMA 124.16 ECC .21158 INC 2.8136 V1 29.955
 RP 108.22 LAP -2.04 LOP 39.57 VP 37.198 GAP 9.77 AZP 91.94 TAL 196.69 TAP 63.05 RCA 97.89 APO 150.43 V2 35.016
 RC 169.445 GL 17.51 GP -23.89 ZAL 125.10 ZAP 152.94 ETS 303.30 ZAE 128.67 ETE 200.17 ZAC 147.63 ETC 194.78 CLP-166.91

PLANETOCENTRIC CONIC
 C3 18.945 VHL 4.353 CLA 33.34 RAL 37.75 RAD 6567.8 VEL 11.846 PTH 2.10 VHP 7.351 DPA -5.72 RAP 57.73 ECC 1.3118
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.62 18 4 27 3969.00 -23.28 167.04 266.92 65.43 19 10 36 3369.0 -26.40 159.34
 108.38 22 43 39 3078.13 -23.27 100.76 266.91 65.42 23 34 58 2478.1 -26.38 93.06
 71.62 18 4 27 3969.00 -23.28 167.04 266.92 65.43 19 10 36 3369.0 -26.40 159.34
 108.38 22 43 39 3078.13 -23.27 100.76 266.91 65.42 23 34 58 2478.1 -26.38 93.06
 110.00 23 50 59 2871.74 -28.43 87.09 269.25 70.17 24 38 51 2271.7 -30.87 78.74
 110.00 21 56 18 3223.38 -18.31 109.33 264.21 60.62 22 50 1 2623.4 -22.08 102.23

DIFFERENTIAL CORRECTIONS
 TDE .6409 TRA-1.3860 TC3-4.5994 BAU 1.1664 SGT 4638.1 SGR 422.6 SG3 137.9 ST 1075.0 SR 371.5 SS 257.8
 RDE .2822 RRA -.0063 RC3 -.2313 FAU .03876 RRT .5822 RRF .6805 RTF .8528 CRT .7914 CRS -.9923 CST -.7495
 FDE .3056 FRA .0380 FC3-1.7711 BSP 14530 SGB 4657.3 R23 .2229 R13 .8537 LSA 1134.7 MSA 268.3 SSA 22.5
 BDE .7003 BRA 1.3861 BC3 4.6052 FSP -433 SG1 4644.7 SG2 343.1 THA 3.05 EL1 1116.1 EL2 218.7 ALF 15.92

LAUNCH DATE MAR 14 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 15 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 26.683 GAL -3.92 AZL 87.53 MCA 229.56 SMA 123.74 ECC .21286 INC 2.4717 V1 29.955
 RP 108.18 LAP -1.88 LOP 42.77 VP 37.163 GAP 9.97 AZP 91.60 TAL 194.83 TAP 64.39 RCA 97.40 APO 150.09 V2 35.030
 RC 171.498 GL 15.77 GP -22.48 ZAL 122.92 ZAP 154.49 ETS 303.29 ZAE 129.22 ETE 199.19 ZAC 150.14 ETC 194.22 CLP-167.63

PLANETOCENTRIC CONIC
 C3 17.855 VHL 4.225 CLA 32.52 RAL 41.33 RAD 6567.7 VEL 11.800 PTH 2.09 VHP 7.391 DPA -3.72 RAP 59.52 ECC 1.2938
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 73.29 18 29 31 3921.85 -23.13 163.34 269.30 66.47 19 34 53 3321.9 -26.11 155.59
 106.71 22 47 13 3097.51 -23.11 102.18 269.30 66.46 23 38 50 2497.5 -26.09 94.43
 73.29 18 29 31 3921.85 -23.13 163.34 269.30 66.47 19 34 53 3321.9 -26.11 155.59
 106.71 22 47 13 3097.51 -23.11 102.18 269.30 66.46 23 38 50 2497.5 -26.09 94.43
 110.00 0 32 15 2785.69 -30.27 81.07 272.23 73.31 1 18 41 2185.7 -32.26 72.42
 110.00 21 47 35 3281.67 -16.33 112.69 265.63 59.54 22 42 17 2681.7 -20.25 105.76

DIFFERENTIAL CORRECTIONS
 TDE .6161 TRA-1.2327 TC3-4.9613 BAU 1.1856 SGT 4712.4 SGR 428.1 SG3 137.8 ST 1033.2 SR 378.7 SS 240.1
 RDE .2792 RRA -.0025 RC3 -.2364 FAU .03761 RRT .5760 RRF .6544 RTF .8525 CRT .8123 CRS -.9830 CST -.7250
 FDE .2722 FRA .1134 FC3-1.8238 BSP 14798 SGB 4731.8 R23 .1965 R13 .8533 LSA 1095.7 MSA 259.3 SSA 25.7
 BDE .6764 BRA 1.2327 BC3 4.9669 FSP -434 SG1 4718.9 SG2 349.5 THA 3.01 EL1 1079.9 EL2 211.3 ALF 17.26

LAUNCH DATE MAR 14 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 17 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 26.617 GAL -3.48 AZL 87.84 MCA 232.76 SMA 123.34 ECC .21435 INC 2.1608 V1 29.955
 RP 108.14 LAP -1.72 LOP 45.98 VP 37.128 GAP 10.18 AZP 91.31 TAL 192.96 TAP 65.72 RCA 96.90 APO 149.78 V2 35.043
 RC 173.532 GL 14.09 GP -21.24 ZAL 120.45 ZAP 155.91 ETS 303.11 ZAE 129.69 ETE 198.31 ZAC 152.64 ETC 193.70 CLP-168.35

PLANETOCENTRIC CONIC
 C3 16.929 VHL 4.114 CLA 31.76 RAL 45.06 RAD 6567.7 VEL 11.761 PTH 2.08 VHP 7.447 DPA -1.89 RAP 61.41 ECC 1.2786
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.98 18 55 39 3874.42 -22.94 159.64 271.95 67.41 20 0 14 3274.4 -25.80 151.85
 105.02 22 50 50 3120.28 -22.93 103.83 271.95 67.40 23 42 50 2520.3 -25.79 96.04
 74.98 18 55 39 3874.42 -22.94 159.64 271.95 67.41 20 0 14 3274.4 -25.80 151.85
 105.02 22 50 50 3120.28 -22.93 103.83 271.95 67.40 23 42 50 2520.3 -25.79 96.04
 110.00 1 3 38 2720.68 -31.45 76.37 275.13 75.86 1 48 59 2120.7 -33.07 67.52
 110.00 21 45 57 3322.02 -14.92 114.97 267.67 58.88 22 41 19 2722.0 -18.94 108.15

DIFFERENTIAL CORRECTIONS
 TDE .5913 TRA-1.0723 TC3-5.3156 BAU 1.2043 SGT 4785.0 SGR 434.3 SG3 137.4 ST 986.3 SR 386.0 SS 223.1
 RDE .2772 RRA .0024 RC3 -.2420 FAU .03638 RRT .5688 RRF .6294 RTF .8531 CRT .8352 CRS -.9653 CST -.6953
 FDE .2397 FRA .1665 FC3-1.8604 BSP 15061 SGB 4804.6 R23 .1719 R13 .8538 LSA 1053.2 MSA 248.2 SSA 29.6
 BDE .6530 BRA 1.0724 BC3 5.3211 FSP -433 SG1 4791.4 SG2 356.8 THA 2.97 EL1 1039.9 EL2 201.4 ALF 18.83

LAUNCH DATE MAR 14 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 19 1969

HELIOCENTRIC CONIC

DISTANCE 471.593

RL 148.75 LAL .00 LOL 173.24 VL 26.552 GAL -3.02 AZL 88.12 MCA 235.96 SMA 122.95 ECC .21606 INC 1.8749 V1 29.955
 RP 108.10 LAP -1.55 LOP 49.18 VP 37.094 GAP 10.40 AZP 91.05 TAL 191.09 TAP 67.05 RCA 96.38 APO 149.51 V2 35.056
 RC 175.544 GL 12.47 GP -20.14 ZAL 117.71 ZAP 157.20 ETS 302.76 ZAE 130.11 ETE 197.51 ZAC 155.12 ETC 193.19 CLP-169.08

PLANETOCENTRIC CONIC

C3 16.152 VHL 4.019 CLA 31.03 RAL 48.94 RAD 6567.6 VEL 11.728 PTH 2.07 VHP 7.517 DPA -.23 RAP 63.37 ECC 1.2658
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.75 19 23 30 3824.78 -22.71 155.78 274.87 68.27 20 27 14 3224.8 -25.46 147.97
 103.25 22 53 55 3148.43 -22.70 105.85 274.87 68.26 23 46 24 2548.4 -25.45 98.04
 76.75 19 23 30 3824.78 -22.71 155.78 274.87 68.27 20 27 14 3224.8 -25.46 147.97
 103.25 22 53 55 3148.43 -22.70 105.85 274.87 68.26 23 46 24 2548.4 -25.45 98.04
 110.00 1 32 35 2666.25 -32.28 72.34 278.13 78.10 2 17 1 2066.2 -33.59 63.35
 110.00 21 47 57 3354.96 -13.76 116.81 270.14 58.39 22 43 52 2755.0 -17.84 110.07

DIFFERENTIAL CORRECTIONS

TDE .5651 TRA -.9036 TC3-5.6531 BAU 1.2219
 RDE .2757 RRA .0084 RC3 -.2479 FAU .03507
 FDE .2077 FRA .2176 FC3-1.8798 BSP 15316
 BDE .6287 BRA .9036 BC3 5.6586 FSP -433

MID-COURSE EXECUTION ACCURACY

SGT 4853.5 SGR 440.8 SG3 136.7
 RRT .5612 RRF .6059 RTF .8545
 SGB 4873.5 R23 .1493 R13 .8551
 SG1 4859.8 SG2 364.4 THA 2.93

ORBIT DETERMINATION ACCURACY

ST 933.2 SR 393.1 SS 207.0
 CRT .8601 CRS -.9349 CST -.6582
 LSA 1006.0 MSA 234.7 SSA 34.4
 EL1 995.0 EL2 188.1 ALF 20.69

LAUNCH DATE MAR 14 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 21 1969

HELIOCENTRIC CONIC

DISTANCE 477.260

RL 148.75 LAL .00 LOL 173.24 VL 26.488 GAL -2.55 AZL 88.39 MCA 239.16 SMA 122.56 ECC .21799 INC 1.6097 V1 29.955
 RP 108.06 LAP -1.38 LOP 52.39 VP 37.061 GAP 10.62 AZP 90.83 TAL 189.22 TAP 68.38 RCA 95.85 APO 149.28 V2 35.069
 RC 177.535 GL 10.88 GP -19.15 ZAL 114.73 ZAP 158.39 ETS 302.24 ZAE 130.48 ETE 196.80 ZAC 157.59 ETC 192.71 CLP-169.80

PLANETOCENTRIC CONIC

C3 15.517 VHL 3.939 CLA 30.30 RAL 52.97 RAD 6567.6 VEL 11.701 PTH 2.06 VHP 7.600 DPA 1.30 RAP 65.40 ECC 1.2554
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.73 19 53 58 3770.03 -22.43 151.56 278.06 69.07 20 56 48 3170.0 -25.07 143.73
 101.27 22 55 35 3185.00 -22.42 108.48 278.06 69.06 23 48 40 2585.0 -25.06 100.64
 78.73 19 53 58 3770.03 -22.43 151.56 278.06 69.07 20 56 48 3170.0 -25.07 143.73
 101.27 22 55 35 3185.00 -22.42 108.48 278.06 69.06 23 48 40 2585.0 -25.06 100.64
 110.00 2 0 29 2618.18 -32.90 68.73 281.31 80.16 2 44 7 2018.2 -33.91 59.64
 110.00 21 52 10 3384.85 -12.69 118.46 272.98 57.99 22 48 35 2784.9 -16.82 111.80

DIFFERENTIAL CORRECTIONS

TDE .5386 TRA -.7231 TC3-5.9578 BAU 1.2371
 RDE .2751 RRA .0161 RC3 -.2525 FAU .03362
 FDE .1781 FRA .2692 FC3-1.8759 BSP 15474
 BDE .6048 BRA .7233 BC3 5.9631 FSP -427

MID-COURSE EXECUTION ACCURACY

SGT 4912.2 SGR 447.6 SG3 135.4
 RRT .5522 RRF .5843 RTF .8555
 SGB 4932.5 R23 .1309 R13 .8560
 SG1 4918.4 SG2 372.7 THA 2.90

ORBIT DETERMINATION ACCURACY

ST 875.9 SR 400.2 SS 194.4
 CRT .8881 CRS -.8867 CST -.6152
 LSA 957.0 MSA 218.4 SSA 40.6
 EL1 947.9 EL2 170.0 ALF 22.86

LAUNCH DATE MAR 14 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 23 1969

HELIOCENTRIC CONIC

DISTANCE 482.913

RL 148.75 LAL .00 LOL 173.24 VL 26.425 GAL -2.06 AZL 88.64 MCA 242.37 SMA 122.19 ECC .22017 INC 1.3615 V1 29.955
 RP 108.02 LAP -1.21 LOP 55.60 VP 37.028 GAP 10.86 AZP 90.63 TAL 187.34 TAP 69.71 RCA 95.29 APO 149.09 V2 35.083
 RC 179.506 GL 9.32 GP -18.27 ZAL 111.51 ZAP 159.49 ETS 301.55 ZAE 130.81 ETE 196.15 ZAC 160.06 ETC 192.22 CLP-170.52

PLANETOCENTRIC CONIC

C3 15.020 VHL 3.876 CLA 29.56 RAL 57.14 RAD 6567.6 VEL 11.679 PTH 2.05 VHP 7.695 DPA 2.69 RAP 67.50 ECC 1.2472
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.15 20 29 0 3704.05 -22.07 146.51 281.51 69.83 21 30 44 3104.0 -24.62 138.67
 98.85 22 53 50 3236.35 -22.06 112.15 281.51 69.81 23 47 47 2636.3 -24.61 104.31
 100.00 23 40 16 3087.83 -24.93 102.19 282.56 72.96 24 31 44 2487.8 -27.03 94.02
 100.00 22 25 16 3327.80 -19.26 117.74 280.31 66.69 23 20 44 2727.8 -22.25 110.22
 110.00 2 28 6 2574.19 -33.36 65.38 284.70 82.09 3 11 0 1974.2 -34.10 56.22
 110.00 21 57 51 3414.20 -11.62 120.07 276.13 57.62 22 54 45 2814.2 -15.81 113.47

DIFFERENTIAL CORRECTIONS

TDE .5030 TRA -.5371 TC3-6.2355 BAU 1.2532
 RDE .2744 RRA .0246 RC3 -.2577 FAU .03224
 FDE .1464 FRA .3172 FC3-1.8584 BSP 15713
 BDE .5730 BRA .5377 BC3 6.2408 FSP -424

MID-COURSE EXECUTION ACCURACY

SGT 4974.6 SGR 454.1 SG3 134.2
 RRT .5441 RRF .5644 RTF .8582
 SGB 4995.3 R23 .1129 R13 .8586
 SG1 4980.8 SG2 380.5 THA 2.86

ORBIT DETERMINATION ACCURACY

ST 805.6 SR 405.9 SS 181.9
 CRT .9147 CRS -.8111 CST -.5575
 LSA 896.9 MSA 199.7 SSA 49.2
 EL1 889.7 EL2 148.5 ALF 25.50

LAUNCH DATE MAR 14 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 25 1969

HELIOCENTRIC CONIC

DISTANCE 488.551

RL 148.75 LAL .00 LOL 173.24 VL 26.364 GAL -1.56 AZL 88.87 MCA 245.58 SMA 121.82 ECC .22259 INC 1.1273 V1 29.955
 RP 107.98 LAP -1.03 LOP 58.82 VP 36.996 GAP 11.11 AZP 90.47 TAL 185.47 TAP 71.05 RCA 94.71 APO 148.94 V2 35.095
 RC 181.455 GL 7.78 GP -17.48 ZAL 108.08 ZAP 160.51 ETS 300.68 ZAE 131.12 ETE 195.56 ZAC 162.53 ETC 191.72 CLP-171.24

PLANETOCENTRIC CONIC

C3 14.661 VHL 3.829 CLA 28.78 RAL 61.44 RAD 6567.6 VEL 11.664 PTH 2.05 VHP 7.801 DPA 3.97 RAP 69.66 ECC 1.2413
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 84.64 21 14 2 3609.04 -21.64 139.33 285.23 70.55 22 14 11 3009.0 -24.09 131.49
 95.36 22 43 9 3320.55 -21.63 118.19 285.22 70.54 23 38 30 2720.5 -24.08 110.35
 100.00 0 32 18 2982.31 -26.84 94.93 286.92 76.32 1 22 0 2382.3 -28.46 86.50
 100.00 22 11 30 3422.51 -16.60 123.52 283.04 64.78 23 8 32 2822.5 -19.86 116.24
 110.00 2 55 49 2532.96 -33.71 62.21 288.31 83.94 3 38 2 1933.0 -34.18 53.00
 110.00 22 4 28 3444.62 -10.51 121.72 279.57 57.28 23 1 52 2844.6 -14.75 115.18

DIFFERENTIAL CORRECTIONS

TDE .4599 TRA -.3422 TC3-6.4663 BAU 1.2684
 RDE .2739 RRA .0342 RC3 -.2618 FAU .03084
 FDE .1142 FRA .3636 FC3-1.8212 BSP 15943
 BDE .5353 BRA .3439 BC3 6.4716 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 5033.4 SGR 460.0 SG3 132.7
 RRT .5358 RRF .5460 RTF .8615
 SGB 5054.4 R23 .0967 R13 .8618
 SG1 5039.5 SG2 387.9 THA 2.82

ORBIT DETERMINATION ACCURACY

ST 725.6 SR 410.3 SS 172.7
 CRT .9403 CRS -.6996 CST -.4904
 LSA 830.0 MSA 179.0 SSA 61.0
 EL1 824.4 EL2 122.9 ALF 28.70

LAUNCH DATE MAR 14 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 27 1969

HELIOCENTRIC CONIC

DISTANCE 494.172

RL 148.75 LAL .00 LOL 173.24 VL 26.303 GAL -1.04 AZL 89.10 MCA 248.79 SMA 121.47 ECC .22529 INC .9044 V1 29.955
 RP 107.94 LAP -.84 LOP 62.03 VP 36.965 GAP 11.37 AZP 90.33 TAL 183.59 TAP 72.38 RCA 94.10 APO 148.83 V2 35.108
 RC 183.384 GL 6.27 GP -16.77 ZAL 104.46 ZAP 161.45 ETS 299.62 ZAE 131.40 ETE 195.03 ZAC 165.00 ETC 191.18 CLP-171.96

PLANETOCENTRIC CONIC

C3 14.442 VHL 3.800 DLA 27.95 RAL 65.86 RAD 6567.6 VEL 11.654 PTH 2.05 VHP 7.918 DPA 5.14 RAP 71.87 ECC 1.2377
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 22 56 27 3330.67 -24.02 119.75 290.16 74.53 23 51 58 2730.7 -25.91 111.59
 90.00 21 35 57 3592.23 -18.24 136.74 288.06 67.96 22 35 49 2992.2 -21.08 129.21
 100.00 1 11 51 2906.85 -27.94 89.59 291.19 78.92 2 0 18 2306.9 -29.19 81.01
 100.00 22 7 10 3491.28 -14.56 127.61 286.33 63.60 23 5 21 2891.3 -17.99 120.49
 110.00 3 23 51 2493.70 -33.95 59.17 292.13 85.72 4 5 25 1893.7 -34.17 49.93
 110.00 22 11 39 3477.20 -9.30 123.47 283.26 56.96 23 9 36 2877.2 -13.59 117.00

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .4078 TRA -.1366 TC3-6.6368 BAU 1.2824 SGT 5086.9 SGR 465.2 SG3 131.0 ST 637.0 SR 413.3 SS 168.5
 RDE .2737 TRA .0450 RC3 -2.2640 FAU .02942 RRT .5273 RRF .5290 RTF .8650 CRT .9609 CRS -.5474 CST -.4263
 FDE .0814 FRA .4096 FC3-1.7635 BSP 16145 SGB 5108.2 R23 .0825 R13 .8653 LSA 757.4 MSA 159.6 SSA 76.8
 BOE .4911 BRA .1438 BC3 6.6420 FSP -418 SG1 5092.9 SG2 394.8 THA 2.78 EL1 753.2 EL2 96.8 ALF 32.55

LAUNCH DATE MAR 14 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 29 1969

HELIOCENTRIC CONIC

DISTANCE 499.774

RL 148.75 LAL .00 LOL 173.24 VL 26.243 GAL -.51 AZL 89.31 MCA 252.01 SMA 121.12 ECC .22828 INC .6909 V1 29.955
 RP 107.90 LAP -.66 LOP 65.25 VP 36.934 GAP 11.64 AZP 90.21 TAL 181.72 TAP 73.72 RCA 93.47 APO 148.77 V2 35.120
 RC 185.291 GL 4.79 GP -16.13 ZAL 100.69 ZAP 162.32 ETS 298.37 ZAE 131.65 ETE 194.55 ZAC 167.46 ETC 190.55 CLP-172.67

PLANETOCENTRIC CONIC

C3 14.369 VHL 3.791 DLA 27.05 RAL 70.35 RAD 6567.6 VEL 11.651 PTH 2.05 VHP 8.047 DPA 6.21 RAP 74.13 ECC 1.2365
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 48 28 3217.44 -25.85 111.96 294.94 78.02 24 42 6 2617.4 -27.24 103.57
 90.00 21 19 47 3703.22 -15.28 143.53 291.26 65.86 22 21 31 3103.2 -18.41 136.26
 100.00 1 48 31 2843.11 -28.69 85.00 295.52 81.23 2 35 54 2243.1 -29.61 76.32
 100.00 22 6 21 3552.78 -12.67 131.19 289.97 62.70 23 5 34 2952.8 -16.23 124.21
 110.00 3 52 14 2456.02 -34.10 56.24 296.15 87.45 4 33 10 1856.0 -34.08 46.99
 110.00 22 19 8 3512.64 -7.98 125.37 287.18 56.65 23 17 41 2912.6 -12.31 118.95

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .3465 TRA .0806 TC3-6.7356 BAU 1.2949 SGT 5135.1 SGR 469.8 SG3 129.2 ST 547.2 SR 414.9 SS 170.9
 RDE .2738 RRA .0569 RC3 -2.2641 FAU .02801 RRT .5192 RRF .5137 RTF .8692 CRT .9639 CRS -.3647 CST -.3989
 FDE .0484 FRA .4548 FC3-1.6874 BSP 16303 SGB 5156.5 R23 .0698 R13 .8694 LSA 684.4 MSA 157.2 SSA 87.8
 BOE .4416 BRA .0986 BC3 6.7408 FSP -413 SG1 5140.9 SG2 401.1 THA 2.74 EL1 681.0 EL2 88.7 ALF 36.89

LAUNCH DATE MAR 14 1969

FLIGHT TIME 170.00

ARRIVAL DATE AUG 31 1969

HELIOCENTRIC CONIC

DISTANCE 505.355

RL 148.75 LAL .00 LOL 173.24 VL 26.184 GAL .05 AZL 89.51 MCA 255.22 SMA 120.78 ECC .23157 INC .4850 V1 29.955
 RP 107.87 LAP -.47 LOP 68.46 VP 36.904 GAP 11.92 AZP 90.12 TAL 179.85 TAP 75.07 RCA 92.81 APO 148.75 V2 35.132
 RC 187.175 GL 3.34 GP -15.55 ZAL 96.79 ZAP 163.13 ETS 296.93 ZAE 131.89 ETE 194.12 ZAC 169.93 ETC 189.74 CLP-173.38

PLANETOCENTRIC CONIC

C3 14.450 VHL 3.801 DLA 26.08 RAL 74.90 RAD 6567.6 VEL 11.655 PTH 2.05 VHP 8.188 DPA 7.19 RAP 76.43 ECC 1.2378
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 34 49 3137.44 -26.86 106.32 299.60 80.67 1 27 6 2537.4 -27.87 97.80
 90.00 21 13 37 3785.73 -12.92 148.44 294.97 64.58 22 16 43 3185.7 -16.24 141.34
 100.00 2 23 43 2786.34 -29.21 80.86 299.97 83.35 3 10 10 2186.3 -29.82 72.11
 100.00 22 7 24 3612.06 -10.80 134.60 293.88 61.96 23 7 36 3012.1 -14.47 127.73
 110.00 4 20 52 2419.81 -34.17 53.41 300.35 89.12 5 1 12 1819.8 -33.92 44.18
 110.00 22 26 44 3551.35 -6.53 127.42 291.30 56.37 23 25 56 2951.3 -10.90 121.06

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .2850 TRA .3185 TC3-6.7248 BAU 1.3001 SGT 5158.5 SGR 474.7 SG3 126.5 ST 483.5 SR 417.7 SS 185.4
 RDE .2761 RRA .0720 RC3 -.2552 FAU .02605 RRT .5045 RRF .5023 RTF .8660 CRT .9182 CRS -.2278 CST -.4939
 FDE .0246 FRA .5105 FC3-1.5605 BSP 16047 SGB 5180.3 R23 .0726 R13 .8663 LSA 630.5 MSA 197.4 SSA 78.3
 BOE .3968 BRA .3266 BC3 6.7297 FSP -374 SG1 5164.1 SG2 409.5 THA 2.67 EL1 626.0 EL2 127.8 ALF 40.46

LAUNCH DATE MAR 14 1969

FLIGHT TIME 172.00

ARRIVAL DATE SEP 2 1969

HELIOCENTRIC CONIC

DISTANCE 510.911

RL 148.75 LAL .00 LOL 173.24 VL 26.126 GAL .62 AZL 89.71 MCA 258.44 SMA 120.45 ECC .23520 INC .2848 V1 29.955
 RP 107.83 LAP -.28 LOP 71.68 VP 36.874 GAP 12.23 AZP 90.06 TAL 177.98 TAP 76.42 RCA 92.12 APO 148.77 V2 35.144
 RC 189.037 GL 1.94 GP -15.02 ZAL 92.80 ZAP 163.88 ETS 295.28 ZAE 132.12 ETE 193.72 ZAC 172.40 ETC 188.56 CLP-174.09

PLANETOCENTRIC CONIC

C3 14.698 VHL 3.834 DLA 25.04 RAL 79.44 RAD 6567.6 VEL 11.665 PTH 2.05 VHP 8.341 DPA 8.07 RAP 78.78 ECC 1.2419
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 13 37 3070.89 -27.50 101.56 304.28 82.98 2 4 48 2470.9 -28.19 92.96
 90.00 21 11 5 3859.82 -10.72 152.77 298.98 63.63 22 15 25 3259.8 -14.17 145.80
 100.00 2 57 54 2734.67 -29.56 77.06 304.52 85.32 3 43 28 2134.7 -29.89 68.27
 100.00 22 9 29 3671.27 -8.88 137.95 298.01 61.34 23 10 41 3071.3 -12.64 131.18
 110.00 4 49 36 2385.21 -34.18 50.71 304.71 90.72 5 29 21 1785.2 -33.70 41.50
 110.00 22 34 17 3593.50 -4.93 129.64 295.59 56.13 23 34 10 2993.5 -9.35 123.34

DIFFERENTIAL CORRECTIONS

MID-COURSE EXECUTION ACCURACY

ORBIT DETERMINATION ACCURACY

TDE .1856 TRA .5451 TC3-6.6969 BAU 1.3169 SGT 5220.4 SGR 475.8 SG3 125.0 ST 416.5 SR 413.3 SS 197.0
 RDE .2751 RRA .0840 RC3 -.2546 FAU .02508 RRT .4997 RRF .4857 RTF .8763 CRT .7330 CRS .0006 CST -.6172
 FDE -.0187 FRA .5452 FC3-1.4775 BSP 16632 SGB 5242.0 R23 .0520 R13 .8765 LSA 550.7 MSA 275.1 SSA 63.8
 BOE .3319 BRA .5515 BC3 6.7017 FSP -402 SG1 5225.8 SG2 411.7 THA 2.62 EL1 546.2 EL2 214.4 ALF 44.70

LAUNCH DATE MAR 14 1969

FLIGHT TIME 174.00

ARRIVAL DATE SEP 4 1969

HELIOCENTRIC CONIC

DISTANCE 516.439

RL 148.75 LAL .00 LOL 173.24 VL 26.069 GAL 1.22 AZL 89.91 MCA 261.67 SMA 120.12 ECC .23918 INC .0887 V1 29.955
 RP 107.79 LAP -.09 LOP 74.91 VP 36.845 GAP 12.54 AZP 90.01 TAL 176.12 TAP 77.79 RCA 91.39 APO 148.85 V2 35.155
 RC 190.875 GL .60 GP -14.55 ZAL 88.77 ZAP 164.57 ETS 293.42 ZAE 132.33 ETE 193.36 ZAC 174.87 ETC 186.44 CLP-174.80

PLANETOCENTRIC CONIC

C3 15.125 VHL 3.889 DLA 23.93 RAL 83.95 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 8.507 DPA 8.86 RAP 81.15 ECC 1.2489
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 50 12 3012.87 -27.92 97.37 309.02 85.04 2 40 25 2412.9 -28.31 88.72
 90.00 21 10 29 3930.64 -8.55 156.84 303.19 62.90 22 16 0 3330.6 -12.11 149.98
 100.00 3 31 8 2687.43 -29.77 73.57 309.16 87.15 4 15 56 2087.4 -29.85 64.76
 100.00 22 12 14 3731.31 -6.91 141.31 302.31 60.84 23 14 25 3131.3 -10.74 134.62
 110.00 5 18 12 2352.49 -34.12 48.16 309.19 92.23 5 57 24 1752.5 -33.43 38.98
 110.00 22 41 40 3639.01 -3.20 132.03 300.02 55.95 23 42 19 3039.0 -7.65 125.77

DIFFERENTIAL CORRECTIONS

TDE .0853 TRA .7939 TC3-6.5530 BAU 1.3260
 RDE .2761 RRA .0985 RC3 -.2456 FAU .02367
 FDE -.0543 FRA .5888 FC3-1.3551 BSP 16773
 BDE .2890 BRA .8000 BC3 6.5576 FSP -396

MID-COURSE EXECUTION ACCURACY

SGT 5256.7 SGR 476.7 SG3 122.7
 RRT .4901 RRF .4719 RTF .8807
 SGB 5278.3 R23 .0430 R13 .8809
 SG1 5261.9 SG2 415.1 THA 2.56

ORBIT DETERMINATION ACCURACY

ST 431.9 SR 409.6 SS 218.6
 CRT .3972 CRS .1545 CST -.8102
 LSA 510.4 MSA 372.9 SSA 50.8
 EL1 498.0 EL2 326.0 ALF 41.21

LAUNCH DATE MAR 14 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 6 1969

HELIOCENTRIC CONIC

DISTANCE 521.934

RL 148.75 LAL .00 LOL 173.24 VL 26.014 GAL 1.84 AZL 90.10 MCA 264.89 SMA 119.81 ECC .24356 INC .1023 V1 29.955
 RP 107.76 LAP .10 LOP 78.13 VP 36.816 GAP 12.88 AZP 89.99 TAL 174.27 TAP 79.16 RCA 90.63 APO 148.99 V2 35.166
 RC 192.690 GL -.68 GP -14.11 ZAL 84.73 ZAP 165.20 ETS 291.35 ZAE 132.52 ETE 193.02 ZAC 177.31 ETC 180.75 CLP-175.50

PLANETOCENTRIC CONIC

C3 15.749 VHL 3.969 DLA 22.76 RAL 88.39 RAD 6567.6 VEL 11.710 PTH 2.06 VHP 8.687 DPA 9.58 RAP 83.56 ECC 1.2592
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 25 3 2961.51 -28.16 93.63 313.80 86.90 3 14 24 2361.5 -28.29 84.97
 90.00 21 11 1 4000.22 -6.37 160.79 307.57 62.35 22 17 41 3400.2 -10.02 154.02
 100.00 4 3 23 2644.42 -29.87 70.37 313.87 88.83 4 47 28 2044.4 -29.71 61.57
 100.00 22 15 21 3792.55 -4.86 144.71 306.74 60.47 23 18 34 3192.5 -8.76 138.09
 110.00 5 46 25 2322.07 -34.01 45.79 313.77 93.63 6 25 7 1722.1 -33.14 36.66
 110.00 22 48 49 3687.66 -1.34 134.57 304.56 55.84 23 50 16 3087.7 -5.82 128.34

DIFFERENTIAL CORRECTIONS

TDE -.0256 TRA 1.0567 TC3-6.3263 BAU 1.3329
 RDE .2780 RRA .1139 RC3 -.2334 FAU .02226
 FDE -.0887 FRA .6331 FC3-1.2238 BSP 16870
 BDE .2792 BRA 1.0629 BC3 6.3306 FSP -389

MID-COURSE EXECUTION ACCURACY

SGT 5286.9 SGR 476.7 SG3 120.4
 RRT .4803 RRF .4594 RTF .8851
 SGB 5308.4 R23 .0361 R13 .8852
 SG1 5291.9 SG2 417.7 THA 2.50

ORBIT DETERMINATION ACCURACY

ST 520.0 SR 405.0 SS 244.0
 CRT .0596 CRS .2686 CST -.9270
 LSA 568.3 MSA 411.5 SSA 41.3
 EL1 521.4 EL2 403.2 ALF 6.64

LAUNCH DATE MAR 14 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 8 1969

HELIOCENTRIC CONIC

DISTANCE 527.393

RL 148.75 LAL .00 LOL 173.24 VL 25.959 GAL 2.49 AZL 90.29 MCA 268.12 SMA 119.50 ECC .24835 INC .2937 V1 29.955
 RP 107.73 LAP .29 LOP 81.36 VP 36.787 GAP 13.24 AZP 89.99 TAL 172.42 TAP 80.54 RCA 89.82 APO 149.18 V2 35.177
 RC 194.480 GL -1.87 GP -13.72 ZAL 80.73 ZAP 165.78 ETS 289.04 ZAE 132.71 ETE 192.71 ZAC 179.44 ETC 118.49 CLP-176.21

PLANETOCENTRIC CONIC

C3 16.591 VHL 4.073 DLA 21.55 RAL 92.70 RAD 6567.7 VEL 11.746 PTH 2.07 VHP 8.882 DPA 10.21 RAP 86.00 ECC 1.2731
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 58 15 2916.07 -28.28 90.31 318.61 88.56 3 46 51 2316.1 -28.18 81.65
 90.00 21 12 16 4069.39 -4.17 164.69 312.06 61.97 22 20 5 3469.4 -7.88 157.98
 100.00 4 34 30 2605.69 -29.89 67.49 318.63 90.34 5 17 56 2005.7 -29.52 58.71
 100.00 22 18 42 3855.00 -2.76 148.15 311.28 60.22 23 22 57 3255.0 -6.70 141.58
 110.00 6 14 0 2294.37 -33.87 43.64 318.42 94.90 6 52 15 1694.4 -32.82 34.55
 110.00 22 55 40 3739.09 .62 137.25 309.17 55.82 23 58 0 3139.1 -3.87 131.04

DIFFERENTIAL CORRECTIONS

TDE -.1521 TRA 1.3293 TC3-6.0370 BAU 1.3400
 RDE .2804 RRA .1296 RC3 -.2192 FAU .02094
 FDE -.1242 FRA .6768 FC3-1.0924 BSP 17023
 BDE .3190 BRA 1.3356 BC3 6.0410 FSP -385

MID-COURSE EXECUTION ACCURACY

SGT 5317.4 SGR 475.3 SG3 118.2
 RRT .4699 RRF .4470 RTF .8900
 SGB 5338.6 R23 .0296 R13 .8901
 SG1 5322.1 SG2 419.2 THA 2.42

ORBIT DETERMINATION ACCURACY

ST 656.7 SR 398.9 SS 271.9
 CRT -.1838 CRS .3589 CST -.9735
 LSA 715.4 MSA 388.9 SSA 34.4
 EL1 663.0 EL2 388.4 ALF 170.26

LAUNCH DATE MAR 14 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 10 1969

HELIOCENTRIC CONIC

DISTANCE 532.809

RL 148.75 LAL .00 LOL 173.24 VL 25.904 GAL 3.16 AZL 90.48 MCA 271.35 SMA 119.20 ECC .25361 INC .4838 V1 29.955
 RP 107.70 LAP .48 LOP 84.58 VP 36.758 GAP 13.63 AZP 90.01 TAL 170.59 TAP 81.94 RCA 88.97 APO 149.43 V2 35.187
 RC 196.245 GL -2.98 GP -13.36 ZAL 76.80 ZAP 166.30 ETS 286.51 ZAE 132.88 ETE 192.43 ZAC 177.62 ETC 25.10 CLP-176.92

PLANETOCENTRIC CONIC

C3 17.677 VHL 4.204 DLA 20.31 RAL 96.87 RAD 6567.7 VEL 11.792 PTH 2.09 VHP 9.093 DPA 10.76 RAP 88.45 ECC 1.2909
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 29 48 2876.24 -28.32 87.40 323.44 90.02 4 17 44 2276.2 -28.01 78.74
 90.00 21 13 58 4138.47 -1.95 168.55 316.64 61.74 22 22 57 3538.5 -5.71 161.89
 100.00 5 4 20 2571.42 -29.85 64.95 323.42 91.68 5 47 11 1971.4 -29.30 56.19
 100.00 22 22 8 3918.52 -.61 151.64 315.90 60.11 23 27 26 3318.5 -4.58 145.10
 110.00 6 40 44 2269.83 -33.71 41.74 323.11 96.01 7 18 33 1669.8 -32.52 32.71
 110.00 23 2 13 3792.88 2.68 140.06 313.85 55.91 24 5 26 3192.9 -1.81 133.86

DIFFERENTIAL CORRECTIONS

TDE -.2902 TRA 1.6158 TC3-5.6875 BAU 1.3449
 RDE .2836 RRA .1456 RC3 -.2027 FAU .01963
 FDE -.1599 FRA .7212 FC3 -.9614 BSP 17146
 BDE .4058 BRA 1.6224 BC3 5.6911 FSP -380

MID-COURSE EXECUTION ACCURACY

SGT 5342.5 SGR 472.5 SG3 115.9
 RRT .4592 RRF .4344 RTF .8949
 SGB 5363.3 R23 .0236 R13 .8950
 SG1 5346.9 SG2 419.4 THA 2.34

ORBIT DETERMINATION ACCURACY

ST 820.5 SR 391.7 SS 301.1
 CRT -.3342 CRS .4271 CST -.9893
 LSA 885.6 MSA 363.5 SSA 29.4
 EL1 833.4 EL2 363.5 ALF 168.77

LAUNCH DATE MAR 14 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 12 1969

HELIOCENTRIC CONIC

DISTANCE 538.177

RL 148.75 LAL .00 LOL 173.24 VL 25.851 GAL 3.87 AZL 90.67 MCA 274.58 SMA 118.90 ECC .25937 INC .6746 V1 29.955
 RP 107.67 LAP .67 LOP 87.81 VP 36.730 GAP 14.04 AZP 90.05 TAL 168.77 TAP 83.35 RCA 88.06 APO 149.74 V2 35.196
 RC 197.986 GL -3.99 GP -13.03 ZAL 72.99 ZAP 166.76 ETS 283.74 ZAE 133.03 ETE 192.16 ZAC 175.18 ETC 18.33 CLP-177.64

PLANETOCENTRIC CONIC

C3 19.036 VHL 4.363 DLA 19.06 RAL 100.87 RAD 6567.8 VEL 11.850 PTH 2.10 VHP 9.323 DPA 11.24 RAP 90.93 ECC 1.3133
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 59 40 2841.91 -28.29 84.89 326.28 91.28 4 47 2 2241.9 -27.81 76.25
 90.00 21 15 59 4207.47 .28 172.40 321.28 61.68 22 26 6 3607.5 -3.51 165.76
 100.00 5 32 44 2541.80 -29.77 62.75 328.22 92.84 6 15 6 1941.8 -29.06 54.02
 100.00 22 25 36 3982.82 1.57 155.16 320.56 60.15 23 31 58 3382.8 -2.41 148.64
 110.00 7 6 23 2248.81 -33.55 40.12 327.84 96.95 7 43 52 1648.8 -32.23 31.14
 110.00 23 8 26 3848.57 4.80 142.98 318.55 56.11 24 12 35 3248.6 .32 136.76

DIFFERENTIAL CORRECTIONS

TDE -.4351 TRA 1.9205 TC3-5.2852 BAU 1.3459
 RDE .2881 RRA .1621 RC3 -.1839 FAU .01828
 FDE -.1936 FRA .7677 FC3 -.8313 BSP 17169
 BDE .5218 BRA 1.9273 BC3 5.2884 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 5358.8 SGR 468.6 SG3 113.6
 RRT .4480 RRF .4228 RTF .8994
 SGB 5379.2 R23 .0194 R13 .8995
 SG1 5362.9 SG2 418.6 THA 2.26

ORBIT DETERMINATION ACCURACY

ST 993.2 SR 384.3 SS 329.7
 CRT -.4228 CRS .4734 CST -.9949
 LSA 1060.4 MSA 343.1 SSA 25.7
 EL1 1008.2 EL2 343.1 ALF 169.47

LAUNCH DATE MAR 14 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 14 1969

HELIOCENTRIC CONIC

DISTANCE 543.488

RL 148.75 LAL .00 LOL 173.24 VL 25.799 GAL 4.62 AZL 90.87 MCA 277.81 SMA 118.62 ECC .26568 INC .8672 V1 29.955
 RP 107.64 LAP .86 LOP 91.05 VP 36.702 GAP 14.49 AZP 90.12 TAL 166.97 TAP 84.78 RCA 87.10 APO 150.13 V2 35.205
 RC 199.701 GL -4.91 GP -12.73 ZAL 69.32 ZAP 167.17 ETS 280.74 ZAE 133.17 ETE 191.92 ZAC 172.73 ETC 16.06 CLP-178.36

PLANETOCENTRIC CONIC

C3 20.705 VHL 4.550 DLA 17.83 RAL 104.67 RAD 6567.8 VEL 11.920 PTH 2.12 VHP 9.572 DPA 11.65 RAP 93.42 ECC 1.3408
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 27 49 2813.05 -28.23 82.78 333.10 92.33 5 14 42 2213.0 -27.61 74.17
 90.00 21 18 10 4276.30 2.50 176.24 325.96 61.78 22 29 26 3676.3 -1.29 169.61
 100.00 5 59 38 2516.95 -29.67 60.91 333.01 93.80 6 41 35 1917.0 -28.83 52.21
 100.00 22 29 2 4047.63 3.76 158.73 325.26 60.32 23 36 29 3447.6 -.21 152.20
 110.00 7 30 50 2231.62 -33.40 38.80 332.57 97.72 8 8 1 1631.6 -31.98 29.86
 110.00 23 14 19 3905.72 6.96 145.99 323.28 56.45 24 19 25 3305.7 2.50 139.74

DIFFERENTIAL CORRECTIONS

TDE -.5955 TRA 2.2356 TC3-4.8638 BAU 1.3471
 RDE .2933 RRA .1783 RC3 -.1649 FAU .01703
 FDE -.2285 FRA .8137 FC3 -.7121 BSP 17287
 BDE .6638 BRA 2.2427 BC3 4.8666 FSP -366

MID-COURSE EXECUTION ACCURACY

SGT 5375.7 SGR 463.2 SG3 111.4
 RRT .4355 RRF .4100 RTF .9045
 SGB 5395.6 R23 .0152 R13 .9045
 SG1 5379.5 SG2 416.6 THA 2.16

ORBIT DETERMINATION ACCURACY

ST 1169.1 SR 376.1 SS 358.0
 CRT -.4858 CRS .5119 CST -.9973
 LSA 1237.2 MSA 324.5 SSA 22.8
 EL1 1184.5 EL2 324.5 ALF 170.39

LAUNCH DATE MAR 14 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 16 1969

HELIOCENTRIC CONIC

DISTANCE 548.733

RL 148.75 LAL .00 LOL 173.24 VL 25.748 GAL 5.40 AZL 91.06 MCA 281.04 SMA 118.34 ECC .27261 INC 1.0629 V1 29.955
 RP 107.62 LAP 1.04 LOP 94.28 VP 36.674 GAP 14.96 AZP 90.20 TAL 165.20 TAP 86.24 RCA 86.08 APO 150.60 V2 35.213
 RC 201.391 GL -5.72 GP -12.45 ZAL 65.80 ZAP 167.52 ETS 277.51 ZAE 133.30 ETE 191.69 ZAC 170.27 ETC 14.90 CLP-179.09

PLANETOCENTRIC CONIC

C3 22.729 VHL 4.767 DLA 16.61 RAL 108.26 RAD 6567.9 VEL 12.004 PTH 2.14 VHP 9.843 DPA 11.99 RAP 95.91 ECC 1.3741
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 54 11 2789.59 -28.15 81.06 337.91 93.19 5 40 41 2189.6 -27.41 72.48
 90.00 21 20 27 4344.77 4.70 180.07 330.65 62.04 22 32 52 3744.8 .92 173.43
 100.00 6 24 56 2496.96 -29.57 59.43 337.80 94.57 7 6 33 1897.0 -28.63 50.75
 100.00 22 32 24 4112.62 5.95 162.32 329.96 60.65 23 40 56 3512.6 1.99 155.77
 110.00 7 53 57 2218.45 -33.28 37.79 337.31 98.31 8 30 55 1618.5 -31.77 28.88
 110.00 23 19 52 3963.90 9.13 149.09 328.01 56.92 24 25 56 3363.9 4.72 142.79

DIFFERENTIAL CORRECTIONS

TDE -.7657 TRA 2.5673 TC3-4.4270 BAU 1.3459
 RDE .2997 RRA .1942 RC3 -.1456 FAU .01583
 FDE -.2633 FRA .8612 FC3 -.6029 BSP 17389
 BDE .8223 BRA 2.5747 BC3 4.4294 FSP -362

MID-COURSE EXECUTION ACCURACY

SGT 5388.2 SGR 456.4 SG3 109.2
 RRT .4224 RRF .3969 RTF .9098
 SGB 5407.4 R23 .0114 R13 .9099
 SG1 5391.6 SG2 413.4 THA 2.06

ORBIT DETERMINATION ACCURACY

ST 1340.2 SR 367.5 SS 385.5
 CRT -.5285 CRS .5416 CST -.9983
 LSA 1408.5 MSA 308.6 SSA 20.6
 EL1 1354.9 EL2 308.6 ALF 171.30

LAUNCH DATE MAR 14 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 18 1969

HELIOCENTRIC CONIC

DISTANCE 553.901

RL 148.75 LAL .00 LOL 173.24 VL 25.698 GAL 6.23 AZL 91.26 MCA 284.27 SMA 118.06 ECC .28021 INC 1.2630 V1 29.955
 RP 107.59 LAP 1.22 LOP 97.52 VP 36.646 GAP 15.48 AZP 90.31 TAL 163.44 TAP 87.72 RCA 84.98 APO 151.15 V2 35.221
 RC 203.056 GL -6.45 GP -12.20 ZAL 62.47 ZAP 167.80 ETS 274.06 ZAE 133.41 ETE 191.47 ZAC 167.83 ETC 14.18 CLP-179.82

PLANETOCENTRIC CONIC

C3 25.159 VHL 5.016 DLA 15.44 RAL 111.64 RAD 6568.0 VEL 12.105 PTH 2.17 VHP 10.139 DPA 12.25 RAP 98.41 ECC 1.4141
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 18 49 2771.41 -28.08 79.74 342.68 93.85 6 5 0 2171.4 -27.25 71.17
 90.00 21 22 47 4412.70 6.85 183.90 335.35 62.46 22 36 20 3812.7 3.11 177.22
 100.00 6 48 37 2481.82 -29.49 58.31 342.55 95.15 7 29 59 1881.8 -28.46 49.66
 100.00 22 35 41 4177.52 8.10 165.94 334.68 61.13 23 45 18 3577.5 4.18 159.34
 110.00 8 15 41 2209.40 -33.19 37.10 342.03 98.71 8 52 30 1609.4 -31.63 28.22
 110.00 23 25 6 4022.71 11.30 152.27 332.75 57.52 24 32 9 3422.7 6.94 145.89

DIFFERENTIAL CORRECTIONS

TDE -.9448 TRA 2.9173 TC3-3.9862 BAU 1.3414
 RDE .3073 RRA .2097 RC3 -.1264 FAU .01464
 FDE -.2973 FRA .9106 FC3 -.5036 BSP 17471
 BDE .9935 BRA 2.9248 BC3 3.9882 FSP -356

MID-COURSE EXECUTION ACCURACY

SGT 5395.1 SGR 448.4 SG3 107.0
 RRT .4081 RRF .3834 RTF .9152
 SGB 5413.7 R23 .0085 R13 .9152
 SG1 5398.2 SG2 409.1 THA 1.95

ORBIT DETERMINATION ACCURACY

ST 1501.6 SR 358.9 SS 411.3
 CRT -.5586 CRS .5641 CST -.9989
 LSA 1570.1 MSA 295.0 SSA 18.8
 EL1 1515.4 EL2 294.9 ALF 172.09

LAUNCH DATE MAR 14 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 20 1969

HELIOCENTRIC CONIC

DISTANCE 558.979

RL 148.75 LAL .00 LOL 173.24 VL 25.648 GAL 7.11 AZL 91.47 MCA 287.51 SMA 117.80 ECC .28856 INC 1.4692 V1 29.955
 RP 107.57 LAP 1.40 LOP 100.75 VP 36.618 GAP 16.04 AZP 90.44 TAL 161.72 TAP 89.23 RCA 83.81 APO 151.79 V2 35.228
 RC 204.697 GL -7.08 GP -11.97 ZAL 59.32 ZAP 168.02 ETS 270.41 ZAE 133.50 ETE 191.26 ZAC 165.39 ETC 13.68 CLP 179.43

PLANETOCENTRIC CONIC

C3 28.062 VHL 5.297 DLA 14.31 RAL 114.81 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 10.463 DPA 12.45 RAP 100.91 ECC 1.4618
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 41 42 2758.37 -28.01 78.79 347.41 94.32 6 27 41 2158.4 -27.12 70.24
 90.00 21 25 9 4479.90 8.95 187.73 340.05 63.02 22 39 49 3879.9 5.26 180.99
 100.00 7 10 41 2471.43 -29.42 57.55 347.28 95.55 7 51 52 1871.4 -28.34 48.91
 100.00 22 38 51 4242.06 10.20 169.58 339.38 61.75 23 49 33 3642.1 6.34 162.91
 110.00 8 36 0 2204.45 -33.14 36.72 346.72 98.92 9 12 45 1604.5 -31.55 27.85
 110.00 23 30 1 4081.81 13.44 155.51 337.47 58.27 24 38 3 3481.8 9.15 149.04

DIFFERENTIAL CORRECTIONS

TDE-1.1301 TRA 3.2901 TC3-3.5481 BAU 1.3317
 RDE .3165 RRA .2247 RC3 -.1076 FAU .01341
 FDE -.3299 FRA .9633 FC3 -.4138 BSP 17440
 BOE 1.1735 BRA 3.2978 BC3 3.5497 FSP -348

MID-COURSE EXECUTION ACCURACY

SGT 5395.5 SGR 439.4 SG3 105.0
 RRT .3928 RRF .3701 RTF .9204
 SGB 5413.4 R23 .0071 R13 .9205
 SG1 5398.3 SG2 403.8 THA 1.84

ORBIT DETERMINATION ACCURACY

ST 1649.4 SR 350.5 SS 435.0
 CRT -.5797 CRS .5799 CST -.9992
 LSA 1718.1 MSA 283.5 SSA 17.3
 EL1 1662.3 EL2 283.4 ALF 172.77

LAUNCH DATE MAR 14 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 22 1969

HELIOCENTRIC CONIC

DISTANCE 563.951

RL 148.75 LAL .00 LOL 173.24 VL 25.600 GAL 8.04 AZL 91.68 MCA 290.75 SMA 117.54 ECC .29776 INC 1.6828 V1 29.955
 RP 107.55 LAP 1.57 LOP 103.99 VP 36.590 GAP 16.64 AZP 90.60 TAL 160.03 TAP 90.77 RCA 82.54 APO 152.54 V2 35.235
 RC 206.313 GL -7.62 GP -11.75 ZAL 56.36 ZAP 168.17 ETS 266.58 ZAE 133.58 ETE 191.06 ZAC 162.96 ETC 13.32 CLP 178.67

PLANETOCENTRIC CONIC

C3 31.515 VHL 5.614 DLA 13.24 RAL 117.76 RAD 6568.3 VEL 12.365 PTH 2.23 VHP 10.818 DPA 12.59 RAP 103.41 ECC 1.5187
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 2 54 2750.23 -27.97 78.20 352.10 94.62 6 48 49 2150.2 -27.04 69.66
 90.00 21 27 29 4546.18 10.97 191.54 344.73 63.73 22 43 15 3946.2 7.35 184.73
 100.00 7 31 9 2465.64 -29.38 57.12 351.96 95.77 8 12 15 1865.6 -28.27 48.49
 100.00 22 41 55 4306.00 12.23 173.23 344.07 62.51 23 53 41 3706.0 8.46 166.48
 110.00 8 54 55 2203.53 -33.13 36.65 351.39 98.96 9 31 39 1603.5 -31.53 27.79
 110.00 23 34 39 4140.87 15.53 158.81 342.18 59.16 24 43 40 3540.9 11.33 152.23

DIFFERENTIAL CORRECTIONS

TDE-1.3290 TRA 3.6787 TC3-3.1334 BAU 1.3207
 RDE .3266 RRA .2383 RC3 -.0903 FAU .01229
 FDE -.3641 FRA 1.0171 FC3 -.3376 BSP 17518
 BOE 1.3686 BRA 3.6864 BC3 3.1347 FSP -343

MID-COURSE EXECUTION ACCURACY

SGT 5393.9 SGR 428.8 SG3 102.9
 RRT .3754 RRF .3544 RTF .9262
 SGB 5410.9 R23 .0052 R13 .9262
 SG1 5396.3 SG2 397.2 THA 1.72

ORBIT DETERMINATION ACCURACY

ST 1786.1 SR 341.7 SS 458.4
 CRT -.5983 CRS .5959 CST -.9993
 LSA 1855.4 MSA 272.1 SSA 16.0
 EL1 1798.0 EL2 272.0 ALF 173.32

LAUNCH DATE MAR 14 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 24 1969

HELIOCENTRIC CONIC

DISTANCE 568.797

RL 148.75 LAL .00 LOL 173.24 VL 25.553 GAL 9.03 AZL 91.91 MCA 293.98 SMA 117.29 ECC .30790 INC 1.9058 V1 29.955
 RP 107.53 LAP 1.74 LOP 107.24 VP 36.563 GAP 17.31 AZP 90.77 TAL 158.38 TAP 92.36 RCA 81.18 APO 153.40 V2 35.240
 RC 207.904 GL -8.08 GP -11.56 ZAL 53.60 ZAP 168.25 ETS 262.58 ZAE 133.62 ETE 190.87 ZAC 160.55 ETC 13.04 CLP 177.89

PLANETOCENTRIC CONIC

C3 35.615 VHL 5.968 DLA 12.23 RAL 120.50 RAD 6568.4 VEL 12.529 PTH 2.27 VHP 11.208 DPA 12.67 RAP 105.88 ECC 1.5861
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 22 28 2746.73 -27.95 77.95 356.74 94.74 7 8 15 2146.7 -27.00 69.41
 90.00 21 29 47 4611.36 12.90 195.35 349.39 64.57 22 46 38 4011.4 9.38 188.45
 100.00 7 50 4 2464.21 -29.37 57.02 356.59 95.83 8 31 8 1864.2 -28.25 48.39
 100.00 22 44 52 4369.11 14.19 176.90 348.74 63.41 23 57 41 3769.1 10.50 170.05
 110.00 9 12 26 2206.46 -33.16 36.87 356.02 98.83 9 49 13 1606.5 -31.58 28.00
 110.00 23 38 59 4199.62 17.55 162.17 346.87 60.18 24 48 59 3599.6 13.45 155.45

DIFFERENTIAL CORRECTIONS

TDE-1.5372 TRA 4.0919 TC3-2.7400 BAU 1.3051
 RDE .3383 RRA .2506 RC3 -.0743 FAU .01118
 FDE -.3982 FRA 1.0741 FC3 -.2718 BSP 17563
 BOE 1.5739 BRA 4.0995 BC3 2.7410 FSP -337

MID-COURSE EXECUTION ACCURACY

SGT 5388.1 SGR 417.1 SG3 100.9
 RRT .3561 RRF .3374 RTF .9320
 SGB 5404.2 R23 .0040 R13 .9320
 SG1 5390.2 SG2 389.6 THA 1.59

ORBIT DETERMINATION ACCURACY

ST 1908.4 SR 333.1 SS 480.7
 CRT -.6135 CRS .6093 CST -.9995
 LSA 1978.7 MSA 261.7 SSA 15.0
 EL1 1919.5 EL2 261.5 ALF 173.77

LAUNCH DATE MAR 14 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 26 1969

HELIOCENTRIC CONIC

DISTANCE 573.493

RL 148.75 LAL .00 LOL 173.24 VL 25.507 GAL 10.10 AZL 92.14 MCA 297.22 SMA 117.05 ECC .31910 INC 2.1405 V1 29.955
 RP 107.52 LAP 1.90 LOP 110.48 VP 36.535 GAP 18.03 AZP 90.98 TAL 156.77 TAP 93.99 RCA 79.70 APO 154.40 V2 35.246
 RC 209.470 GL -8.48 GP -11.38 ZAL 51.04 ZAP 168.25 ETS 258.46 ZAE 133.65 ETE 190.68 ZAC 158.17 ETC 12.82 CLP 177.08

PLANETOCENTRIC CONIC

C3 40.483 VHL 6.363 DLA 11.29 RAL 123.03 RAD 6568.6 VEL 12.722 PTH 2.31 VHP 11.638 DPA 12.68 RAP 108.34 ECC 1.6662
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 40 27 2747.56 -27.95 78.01 1.31 94.71 7 26 15 2147.6 -27.01 69.47
 90.00 21 32 2 4675.27 14.74 199.15 354.01 65.55 22 49 57 4075.3 11.32 192.14
 100.00 8 7 29 2466.87 -29.39 57.21 1.16 95.73 8 48 36 1866.9 -28.29 48.58
 100.00 22 47 41 4431.18 16.05 180.57 353.38 64.44 24 1 33 3831.2 12.47 173.60
 110.00 9 28 36 2213.03 -33.22 37.37 .60 98.55 10 5 29 1613.0 -31.69 28.48
 110.00 23 43 3 4257.80 19.49 165.57 351.53 61.34 24 54 1 3657.8 15.51 158.70

DIFFERENTIAL CORRECTIONS

TDE-1.7564 TRA 4.5304 TC3-2.3718 BAU 1.2841
 RDE .3514 RRA .2611 RC3 -.0599 FAU .01008
 FDE -.4327 FRA 1.1348 FC3 -.2156 BSP 17597
 BOE 1.7912 BRA 4.5379 BC3 2.3726 FSP -332

MID-COURSE EXECUTION ACCURACY

SGT 5377.6 SGR 404.3 SG3 99.0
 RRT .3343 RRF .3183 RTF .9379
 SGB 5392.8 R23 .0033 R13 .9379
 SG1 5379.3 SG2 380.9 THA 1.45

ORBIT DETERMINATION ACCURACY

ST 2016.8 SR 324.6 SS 502.4
 CRT -.6272 CRS .6217 CST -.9996
 LSA 2088.5 MSA 251.7 SSA 14.0
 EL1 2027.2 EL2 251.5 ALF 174.15

LAUNCH DATE MAR 14 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 28 1969

HELIOCENTRIC CONIC

DISTANCE 578.009

RL 148.75 LAL .00 LOL 173.24 VL 25.462 GAL 11.24 AZL 92.39 HCA 300.46 SMA 116.81 ECC .33152 INC 2.3893 V1 29.955
 RP 107.50 LAP 2.06 LOP 113.72 VP 36.508 GAP 18.83 AZP 91.21 TAL 155.23 TAP .95.69 RCA 78.09 APO 155.53 V2 35.250
 RC 211.012 GL -8.80 GP -11.22 ZAL 48.66 ZAP 168.18 ETS 254.26 ZAE 133.63 ETE 190.50 ZAC 155.80 ETC 12.64 CLP 176.25

PLANETOCENTRIC CONIC

C3 46.267 VHL 6.802 CLA 10.42 RAL 125.37 RAD 6568.7 VEL 12.947 PTH 2.36 VHP 12.114 DPA 12.65 RAP 110.78 ECC 1.7614
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 56 55 2752.38 -27.98 78.36 5.81 94.54 7 42 48 2152.4 -27.06 69.81
 90.00 21 34 13 4737.71 16.46 202.92 358.60 66.63 22 53 11 4137.7 13.16 195.80
 100.00 8 23 27 2473.32 -29.43 57.69 5.66 95.48 9 4 40 1873.3 -28.36 49.05
 100.00 22 50 23 4492.00 17.79 184.24 357.98 65.58 24 5 15 3892.0 14.35 177.14
 110.00 9 43 27 2222.96 -33.32 38.13 5.12 98.11 10 20 30 1623.0 -31.84 29.22
 110.00 23 46 52 4315.12 21.32 169.00 356.16 62.62 24 58 47 3715.1 17.48 161.98

DIFFERENTIAL CORRECTIONS

TDE -1.9827 TRA 5.0018 TC3 -2.0277 BAU 1.2545
 RDE .3663 RRA .2696 RC3 -.0469 FAU .00892
 FDE -.4666 FRA 1.2010 FC3 -.1670 BSP 17510
 BDE 2.0163 BRA 5.0090 BC3 2.0282 FSP -324

MID-COURSE EXECUTION ACCURACY

SGT 5361.9 SGR 390.7 SG3 97.1
 RRT .3102 RRF .2976 RTF .9437
 SGB 5376.1 R23 .0036 R13 .9437
 SG1 5363.3 SG2 371.3 THA 1.30

ORBIT DETERMINATION ACCURACY

ST 2109.0 SR 316.3 SS 523.1
 CRT -.6390 CRS .6321 CST -.9996
 LSA 2182.3 MSA 242.4 SSA 13.2
 EL1 2118.8 EL2 242.2 ALF 174.45

LAUNCH DATE MAR 14 1969

FLIGHT TIME 200.00

ARRIVAL DATE SEP 30 1969

HELIOCENTRIC CONIC

DISTANCE 582.307

RL 148.75 LAL .00 LOL 173.24 VL 25.418 GAL 12.48 AZL 92.66 HCA 303.70 SMA 116.58 ECC .34530 INC 2.6553 V1 29.955
 RP 107.49 LAP 2.21 LOP 116.97 VP 36.481 GAP 19.72 AZP 91.47 TAL 153.75 TAP 97.45 RCA 76.33 APO 156.84 V2 35.254
 RC 212.528 GL -9.07 GP -11.07 ZAL 46.48 ZAP 168.02 ETS 249.99 ZAE 133.59 ETE 190.31 ZAC 153.47 ETC 12.50 CLP 175.39

PLANETOCENTRIC CONIC

C3 53.155 VHL 7.291 CLA 9.63 RAL 127.52 RAD 6568.9 VEL 13.210 PTH 2.41 VHP 12.642 DPA 12.56 RAP 113.18 ECC 1.8748
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 11 56 2760.83 -28.02 78.97 10.22 94.23 7 57 57 2160.8 -27.14 70.42
 90.00 21 36 20 4798.48 18.07 206.66 3.12 67.82 22 56 19 4198.5 14.90 199.42
 100.00 8 38 1 2483.22 -29.49 58.42 10.09 95.10 9 19 24 1883.2 -28.47 49.76
 100.00 22 52 57 4551.32 19.43 187.89 2.52 66.82 24 8 48 3951.3 16.12 180.66
 110.00 9 57 1 2235.97 -33.44 39.13 9.57 97.53 10 34 17 1636.0 -32.04 30.18
 110.00 23 50 25 4371.34 23.04 172.46 .75 64.02 25 3 17 3771.3 19.36 165.26

DIFFERENTIAL CORRECTIONS

TDE -2.2269 TRA 5.4991 TC3 -1.7171 BAU 1.2205
 RDE .3827 RRA .2751 RC3 -.0358 FAU .00782
 FDE -.5031 FRA 1.2706 FC3 -.1274 BSP 17546
 BDE 2.2595 BRA 5.5060 BC3 1.7175 FSP -319

MID-COURSE EXECUTION ACCURACY

SGT 5342.8 SGR 375.9 SG3 95.3
 RRT .2815 RRF .2722 RTF .9497
 SGB 5356.0 R23 .0038 R13 .9497
 SG1 5343.8 SG2 360.6 THA 1.14

ORBIT DETERMINATION ACCURACY

ST 2190.3 SR 307.9 SS 544.7
 CRT -.6521 CRS .6443 CST -.9997
 LSA 2266.0 MSA 232.7 SSA 12.4
 EL1 2199.6 EL2 232.4 ALF 174.70

LAUNCH DATE MAR 14 1969

FLIGHT TIME 202.00

ARRIVAL DATE OCT 2 1969

HELIOCENTRIC CONIC

DISTANCE 586.339

RL 148.75 LAL .00 LOL 173.24 VL 25.375 GAL 13.82 AZL 92.94 HCA 306.94 SMA 116.36 ECC .36065 INC 2.9422 V1 29.955
 RP 107.48 LAP 2.35 LOP 120.21 VP 36.455 GAP 20.70 AZP 91.77 TAL 152.35 TAP 99.29 RCA 74.40 APO 158.33 V2 35.256
 RC 214.018 GL -9.29 GP -10.93 ZAL 44.49 ZAP 167.78 ETS 245.71 ZAE 133.49 ETE 190.12 ZAC 151.18 ETC 12.38 CLP 174.49

PLANETOCENTRIC CONIC

C3 61.384 VHL 7.835 CLA 8.90 RAL 129.48 RAD 6569.1 VEL 13.518 PTH 2.47 VHP 13.232 DPA 12.43 RAP 115.54 ECC 2.0102
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 25 32 2772.57 -28.08 79.83 14.54 93.81 8 11 45 2172.6 -27.26 71.26
 90.00 21 38 22 4857.34 19.54 210.35 7.57 69.09 22 59 20 4257.3 16.52 202.98
 100.00 8 51 13 2496.23 -29.57 59.38 14.41 94.60 9 32 49 1896.2 -28.62 50.70
 100.00 22 55 23 4608.92 20.93 191.51 6.99 68.15 24 12 11 4008.9 17.78 184.13
 110.00 10 9 21 2251.74 -33.58 40.34 13.94 96.82 10 46 52 1651.7 -32.27 31.35
 110.00 23 53 44 4426.17 24.63 175.92 5.27 65.51 25 7 31 3826.2 21.12 168.54

DIFFERENTIAL CORRECTIONS

TDE -2.4846 TRA 6.0331 TC3 -1.4341 BAU 1.1771
 RDE .4010 RRA .2773 RC3 -.0263 FAU .00668
 FDE -.5409 FRA 1.3464 FC3 -.0942 BSP 17542
 BDE 2.5168 BRA 6.0395 BC3 1.4344 FSP -313

MID-COURSE EXECUTION ACCURACY

SGT 5319.3 SGR 360.3 SG3 93.5
 RRT .2485 RRF .2047 RTF .9555
 SGB 5331.5 R23 .0043 R13 .9555
 SG1 5320.0 SG2 349.0 THA .97

ORBIT DETERMINATION ACCURACY

ST 2258.5 SR 299.7 SS 566.9
 CRT -.6653 CRS .6568 CST -.9997
 LSA 2337.1 MSA 223.1 SSA 11.7
 EL1 2267.4 EL2 222.8 ALF 174.91

LAUNCH DATE MAR 14 1969

FLIGHT TIME 204.00

ARRIVAL DATE OCT 4 1969

HELIOCENTRIC CONIC

DISTANCE 590.046

RL 148.75 LAL .00 LOL 173.24 VL 25.334 GAL 15.28 AZL 93.25 HCA 310.18 SMA 116.15 ECC .37780 INC 3.2546 V1 29.955
 RP 107.48 LAP 2.49 LOP 123.46 VP 36.428 GAP 21.80 AZP 92.10 TAL 151.05 TAP 101.23 RCA 72.27 APO 160.03 V2 35.259
 RC 215.482 GL -9.46 GP -10.80 ZAL 42.68 ZAP 167.44 ETS 241.44 ZAE 133.35 ETE 189.93 ZAC 148.93 ETC 12.29 CLP 173.54

PLANETOCENTRIC CONIC

C3 71.260 VHL 8.442 CLA 8.25 RAL 131.26 RAD 6569.4 VEL 13.878 PTH 2.53 VHP 13.893 DPA 12.25 RAP 117.84 ECC 2.1728
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 37 46 2787.24 -28.14 80.89 18.73 93.28 8 24 13 2187.2 -27.39 72.31
 90.00 21 40 19 4914.03 20.87 213.98 11.91 70.42 23 2 13 4314.0 18.02 206.47
 100.00 9 3 6 2512.01 -29.65 60.54 18.62 93.99 9 44 58 1912.0 -28.78 51.85
 100.00 22 57 40 4664.49 22.29 195.07 11.36 69.55 24 15 25 4064.5 19.31 187.55
 110.00 10 20 27 2269.95 -33.72 41.75 18.20 96.00 10 58 17 1669.9 -32.52 32.72
 110.00 0 0 44 4479.31 26.09 179.37 9.71 67.08 1 15 24 3879.3 22.75 171.80

DIFFERENTIAL CORRECTIONS

TDE -2.7583 TRA 6.6078 TC3 -1.1784 BAU 1.1228
 RDE .4214 RRA .2755 RC3 -.0183 FAU .00548
 FDE -.5806 FRA 1.4291 FC3 -.0666 BSP 17528
 BDE 2.7903 BRA 6.6136 BC3 1.1786 FSP -308

MID-COURSE EXECUTION ACCURACY

SGT 5291.6 SGR 344.2 SG3 91.8
 RRT .2099 RRF .2077 RTF .9612
 SGB 5302.8 R23 .0052 R13 .9612
 SG1 5292.1 SG2 336.5 THA .79

ORBIT DETERMINATION ACCURACY

ST 2314.5 SR 291.6 SS 590.2
 CRT -.6792 CRS .6699 CST -.9997
 LSA 2396.8 MSA 213.5 SSA 11.0
 EL1 2323.0 EL2 213.2 ALF 175.07

LAUNCH DATE MAR 14 1969

FLIGHT TIME 206.00

ARRIVAL DATE OCT 6 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 25.295 GAL 16.89 AZL 93.60 HCA 313.42 SMA 115.95 ECC .39703 INC 3.5985 V1 29.955
 RP 107.47 LAP 2.61 LOP 126.71 VP 36.402 GAP 23.03 AZP 92.47 TAL 149.87 TAP 103.28 RCA 69.91 APO 161.98 V2 35.260
 RC 216.920 GL -9.59 GP -10.67 ZAL 41.06 ZAP 167.00 ETS 237.22 ZAE 133.15 ETE 189.73 ZAC 146.74 ETC 12.22 CLP 172.53

PLANETOCENTRIC CONIC
 C3 83.174 VHL 9.120 CLA 7.67 RAL 132.85 RAD 6569.6 VEL 14.301 PTH 2.60 VHP 14.637 OPA 12.04 RAP 120.09 ECC 2.3688
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 48 37 2804.48 -28.20 82.15 22.78 92.65 8 35 22 2204.5 -27.54 73.55
 90.00 21 42 10 4968.25 22.07 217.50 16.13 71.79 23 4 58 4368.2 19.38 209.86
 100.00 9 13 39 2530.22 -29.73 61.89 22.69 93.29 9 55 50 1930.2 -28.96 53.17
 100.00 22 59 49 4717.74 23.52 198.55 15.60 71.00 24 18 27 4117.7 20.71 190.89
 110.00 10 30 20 2290.28 -33.85 43.32 22.34 95.08 11 8 30 1690.3 -32.78 34.25
 110.00 0 3 34 4530.45 27.40 182.77 14.03 68.71 1 19 5 3930.4 24.25 175.01

DIFFERENTIAL CORRECTIONS
 TDE -3.0457 TRA 7.2326 TC3 -.9467 BAU 1.0527 SGT 5259.7 SGR 327.7 SG3 90.1 ST 2357.1 SR 283.7 SS 614.7
 RDE .4442 RRA .2687 RC3 -.0119 FAU .00414 RRT .1651 RRF .1665 RTF .9666 CRT -.6933 CRS .6833 CST -.9998
 FDE -.6218 FRA 1.5208 FC3 -.0430 BSP 17396 SGB 5269.9 R23 .0064 R13 .9666 LSA 2443.8 MSA 204.1 SSA 10.4
 BDE 3.0779 BRA 7.2376 BC3 .9467 FSP -.301 SG1 5260.0 SG2 323.2 THA .59 EL1 2365.3 EL2 203.7 ALF 175.19

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 8 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 25.258 GAL 18.66 AZL 93.98 HCA 316.65 SMA 115.76 ECC .41865 INC 3.9812 V1 29.955
 RP 107.47 LAP 2.73 LOP 129.96 VP 36.377 GAP 24.43 AZP 92.90 TAL 148.82 TAP 105.47 RCA 67.29 APO 164.22 V2 35.261
 RC 218.330 GL -9.68 GP -10.56 ZAL 39.63 ZAP 166.44 ETS 233.06 ZAE 132.87 ETE 189.51 ZAC 144.62 ETC 12.16 CLP 171.45

PLANETOCENTRIC CONIC
 C3 97.639 VHL 9.881 CLA 7.17 RAL 134.26 RAD 6569.9 VEL 14.798 PTH 2.67 VHP 15.480 OPA 11.80 RAP 122.26 ECC 2.6069
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 58 7 2824.01 -28.26 83.58 26.67 91.93 8 45 11 2224.0 -27.69 74.96
 90.00 21 43 55 5019.63 23.12 220.90 20.18 73.18 23 7 35 4419.6 20.60 213.14
 100.00 9 22 54 2550.57 -29.80 63.40 26.60 92.49 10 5 24 1950.6 -29.13 54.66
 100.00 23 1 50 4768.29 24.60 201.92 19.68 72.45 24 21 18 4168.3 21.96 194.11
 110.00 10 38 59 2312.44 -33.97 45.04 26.32 94.07 11 17 32 1712.4 -33.03 35.92
 110.00 0 6 9 4579.19 28.56 186.08 18.19 70.36 1 22 28 3979.2 25.61 178.14

DIFFERENTIAL CORRECTIONS
 TDE -3.3594 TRA 7.9039 TC3 -.7424 BAU .9692 SGT 5223.4 SGR 311.1 SG3 88.5 ST 2391.0 SR 276.1 SS 642.0
 RDE .4698 RRA .2559 RC3 -.0070 FAU .00271 RRT .1110 RRF .1158 RTF .9717 CRT -.7097 CRS .6991 CST -.9998
 FDE -.6673 FRA 1.6209 FC3 -.0240 BSP 17383 SGB 5232.7 R23 .0076 R13 .9717 LSA 2483.4 MSA 194.3 SSA 9.8
 BDE 3.3921 BRA 7.9081 BC3 .7425 FSP -.296 SG1 5223.6 SG2 309.1 THA .38 EL1 2399.0 EL2 193.9 ALF 175.28

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 10 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 25.222 GAL 20.63 AZL 94.41 HCA 319.89 SMA 115.58 ECC .44307 INC 4.4127 V1 29.955
 RP 107.47 LAP 2.84 LOP 133.21 VP 36.352 GAP 26.01 AZP 93.38 TAL 147.95 TAP 107.83 RCA 64.37 APO 166.78 V2 35.260
 RC 219.714 GL -9.74 GP -10.45 ZAL 38.39 ZAP 165.77 ETS 228.99 ZAE 132.50 ETE 189.28 ZAC 142.58 ETC 12.13 CLP 170.29

PLANETOCENTRIC CONIC
 C3 115.329 VHL 10.739 CLA 6.76 RAL 135.48 RAD 6570.2 VEL 15.384 PTH 2.75 VHP 16.438 OPA 11.54 RAP 124.34 ECC 2.8980
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 6 12 2845.54 -28.30 85.15 30.36 91.15 8 53 38 2245.5 -27.84 76.52
 90.00 21 45 33 5067.76 24.03 224.13 24.03 74.56 23 10 1 4467.8 21.68 216.25
 100.00 9 30 46 2572.78 -29.85 65.05 30.32 91.63 10 13 39 1972.8 -29.31 56.29
 100.00 23 3 40 4815.74 25.53 205.14 23.56 73.90 24 23 56 4215.7 23.08 197.20
 110.00 10 46 23 2336.15 -34.07 46.88 30.12 92.98 11 25 19 1736.1 -33.28 37.73
 110.00 0 8 29 4625.14 29.57 189.28 22.17 72.01 1 25 34 4025.1 26.82 181.17

DIFFERENTIAL CORRECTIONS
 TDE -3.6952 TRA 8.6353 TC3 -.5606 BAU .8644 SGT 5182.7 SGR 294.8 SG3 86.9 ST 2413.5 SR 268.8 SS 672.2
 RDE .4987 RRA .2356 RC3 -.0034 FAU .00107 RRT .0469 RRF .0547 RTF .9764 CRT -.7272 CRS .7161 CST -.9998
 FDE -.7164 FRA 1.7322 FC3 -.0080 BSP 17331 SGB 5191.1 R23 .0089 R13 .9764 LSA 2513.0 MSA 184.5 SSA 9.1
 BDE 3.7287 BRA 8.6386 BC3 .5606 FSP -.291 SG1 5182.7 SG2 294.4 THA .15 EL1 2421.5 EL2 183.9 ALF 175.34

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 12 1969

HELIOCENTRIC CONIC
 RL 148.75 LAL .00 LOL 173.24 VL 25.190 GAL 22.84 AZL 94.91 HCA 323.12 SMA 115.41 ECC .47071 INC 4.9063 V1 29.955
 RP 107.47 LAP 2.94 LOP 136.46 VP 36.329 GAP 27.82 AZP 93.93 TAL 147.28 TAP 110.40 RCA 61.09 APO 169.74 V2 35.260
 RC 221.070 GL -9.76 GP -10.34 ZAL 37.36 ZAP 164.96 ETS 225.01 ZAE 132.03 ETE 189.02 ZAC 140.64 ETC 12.11 CLP 169.02

PLANETOCENTRIC CONIC
 C3 137.143 VHL 11.711 CLA 6.42 RAL 136.50 RAD 6570.5 VEL 16.077 PTH 2.83 VHP 17.535 OPA 11.27 RAP 126.31 ECC 3.2570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 12 50 2868.85 -28.32 86.86 33.82 90.29 9 0 38 2268.9 -27.98 78.21
 90.00 21 47 4 5112.17 24.80 227.16 27.62 75.88 23 12 16 4512.2 22.62 219.17
 100.00 9 37 13 2596.64 -29.89 66.82 33.81 90.70 10 20 30 1996.6 -29.47 58.04
 100.00 23 5 21 4859.62 26.32 208.16 27.18 75.30 24 26 21 4259.6 24.05 200.10
 110.00 10 52 28 2361.19 -34.14 48.83 33.70 91.83 11 31 49 1761.2 -33.51 39.65
 110.00 0 10 32 4667.84 30.43 192.31 25.89 73.61 1 28 20 4067.8 27.88 184.04

DIFFERENTIAL CORRECTIONS
 TDE -4.0572 TRA 9.4339 TC3 -.3999 BAU .7333 SGT 5137.3 SGR 279.3 SG3 85.4 ST 2425.4 SR 261.9 SS 706.1
 RDE .5317 RRA .2063 RC3 -.0011 FAU .00087 RRT -.0294 RRF -.0188 RTF .9807 CRT -.7460 CRS .7345 CST -.9998
 FDE -.7701 FRA 1.8569 FC3 .0035 BSP 17267 SGB 5144.8 R23 -.0101 R13 -.9807 LSA 2533.6 MSA 174.6 SSA 8.5
 BDE 4.0919 BRA 9.4362 BC3 .3999 FSP -.287 SG1 5137.3 SG2 279.2 THA 179.91 EL1 2433.3 EL2 173.9 ALF 175.37

MID-COURSE EXECUTION ACCURACY
 ORBIT DETERMINATION ACCURACY

LAUNCH DATE MAR 14 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 14 1969

HELIOCENTRIC CONIC

DISTANCE 599.986

RL 148.75 LAL .00 LOL 173.24 VL 25.160 GAL 25.34 AZL 95.48 MCA 326.35 SMA 115.26 ECC .50211 INC 5.4802 V1 29.955
 RP 107.48 LAP 3.03 LOP 139.71 VP 36.306 GAP 29.91 AZP 94.57 TAL 146.87 TAP 113.22 RCA 57.39 APO 173.14 V2 35.258
 RC 222.400 GL -9.75 GP -10.23 ZAL 36.54 ZAP 163.99 ETS 221.14 ZAE 131.42 ETE 188.74 ZAC 138.83 ETC 12.11 CLP 167.62

PLANETOCENTRIC CONIC

C3 164.287 VHL 12.817 CLA 6.18 RAL 137.30 RAD 6570.8 VEL 16.900 PTH 2.91 VHP 18.799 DPA 11.00 RAP 128.14 ECC 3.7037
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 17 52 2893.82 -28.31 88.68 37.02 89.38 9 6 6 2293.8 -28.10 80.02
 90.00 21 48 26 5152.31 25.44 229.93 30.89 77.13 23 14 18 4552.3 23.42 221.84
 100.00 9 42 9 2621.99 -29.89 68.71 37.03 89.70 10 25 51 2022.0 -29.61 59.91
 100.00 23 6 50 4899.37 26.98 210.93 30.49 76.62 24 28 30 4299.4 24.87 202.76
 110.00 10 57 7 2387.39 -34.18 50.88 37.02 90.62 11 36 54 1787.4 -33.71 41.67
 110.00 0 12 18 4706.74 31.14 195.11 29.30 75.13 1 30 45 4106.7 28.78 186.70

DIFFERENTIAL CORRECTIONS

TDE-4.4437 TRA10.3126 TC3 -.2579 BAU .5664
 RDE .5698 RRA .1658 RC3 .0001 FAU-.00326
 FDE -.8285 FRA 1.9980 FC3 .0172 BSP 17074
 BDE 4.4800 BRA10.3139 BC3 .2579 FSP -281

MID-COURSE EXECUTION ACCURACY

SGT 5087.5 SGR 265.4 SG3 84.0
 RRT -.1187 RRF -.1059 RTF .9845
 SGB 5094.4 R23 -.0114 R13 -.9845
 SG1 5087.6 SG2 263.5 THA 179.64

ORBIT DETERMINATION ACCURACY

ST 2425.1 SR 255.7 SS 744.0
 CRT -.7658 CRS .7540 CST -.9998
 LSA 2544.2 MSA 164.8 SSA 8.0
 EL1 2433.0 EL2 163.9 ALF 175.36

LAUNCH DATE MAR 14 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 16 1969

HELIOCENTRIC CONIC

DISTANCE 598.963

RL 148.75 LAL .00 LOL 173.24 VL 25.134 GAL 28.18 AZL 96.16 MCA 329.58 SMA 115.13 ECC .53782 INC 6.1603 V1 29.955
 RP 107.49 LAP 3.11 LOP 142.96 VP 36.286 GAP 32.34 AZP 95.32 TAL 146.77 TAP 116.35 RCA 53.21 APO 177.05 V2 35.255
 RC 223.702 GL -9.72 GP -10.12 ZAL 35.97 ZAP 162.84 ETS 217.38 ZAE 130.66 ETE 188.42 ZAC 137.17 ETC 12.13 CLP 166.06

PLANETOCENTRIC CONIC

C3 198.391 VHL 14.085 CLA 6.05 RAL 137.86 RAD 6571.1 VEL 17.880 PTH 3.00 VHP 20.263 DPA 10.75 RAP 129.82 ECC 4.2650
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 21 10 2920.41 -28.28 90.63 39.90 88.40 9 9 50 2320.4 -28.20 81.96
 90.00 21 49 39 5187.53 25.95 232.38 33.80 78.26 23 16 6 4587.5 24.07 224.21
 100.00 9 45 23 2648.80 -29.86 70.70 39.95 88.65 10 29 31 2048.8 -29.73 61.90
 100.00 23 8 7 4934.38 27.51 213.40 33.43 77.82 24 30 21 4334.4 25.55 205.14
 110.00 11 0 11 2414.67 -34.18 53.01 40.04 89.36 11 40 26 1814.7 -33.89 43.78
 110.00 0 13 44 4741.26 31.71 197.64 32.33 76.52 1 32 45 4141.3 29.54 189.11

DIFFERENTIAL CORRECTIONS

TDE-4.8671 TRA11.2685 TC3 -.1357 BAU .3598
 RDE .6141 RRA .1115 RC3 .0002 FAU-.00617
 FDE -.8947 FRA 2.1560 FC3 .0269 BSP 17005
 BDE 4.9057 BRA11.2690 BC3 .1357 FSP -277

MID-COURSE EXECUTION ACCURACY

SGT 5031.2 SGR 253.9 SG3 82.7
 RRT -.2227 RRF -.2084 RTF .9879
 SGB 5037.6 R23 -.0124 R13 -.9879
 SG1 5031.5 SG2 247.5 THA 179.35

ORBIT DETERMINATION ACCURACY

ST 2415.0 SR 250.2 SS 787.7
 CRT -.7873 CRS .7755 CST -.9998
 LSA 2547.8 MSA 154.8 SSA 7.4
 EL1 2423.0 EL2 153.8 ALF 175.32

LAUNCH DATE MAR 14 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 18 1969

HELIOCENTRIC CONIC

DISTANCE 596.201

RL 148.75 LAL .00 LOL 173.24 VL 25.113 GAL 31.44 AZL 96.98 MCA 332.80 SMA 115.02 ECC .57846 INC 6.9846 V1 29.955
 RP 107.50 LAP 3.19 LOP 146.22 VP 36.268 GAP 35.17 AZP 96.22 TAL 147.06 TAP 119.86 RCA 48.49 APO 181.56 V2 35.252
 RC 224.978 GL -9.65 GP -10.00 ZAL 35.68 ZAP 161.46 ETS 213.72 ZAE 129.70 ETE 188.06 ZAC 135.71 ETC 12.18 CLP 164.31

PLANETOCENTRIC CONIC

C3 241.670 VHL 15.546 CLA 6.03 RAL 138.16 RAD 6571.4 VEL 19.052 PTH 3.08 VHP 21.968 DPA 10.54 RAP 131.31 ECC 4.9773
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 22 30 2948.71 -28.20 92.69 42.42 87.37 9 11 39 2348.7 -28.27 84.03
 90.00 21 50 40 5217.10 26.35 234.45 36.25 79.23 23 17 37 4617.1 24.59 226.22
 100.00 9 46 42 2677.13 -29.80 72.80 42.50 87.55 10 31 19 2077.1 -29.82 64.00
 100.00 23 9 9 4963.91 27.92 215.50 35.91 78.85 24 31 53 4363.9 26.09 207.17
 110.00 11 1 29 2443.08 -34.13 55.23 42.70 88.05 11 42 12 1843.1 -34.03 45.99
 110.00 0 14 47 4770.73 32.16 199.82 34.90 77.74 1 34 18 4170.7 30.14 191.19

DIFFERENTIAL CORRECTIONS

TDE-5.3208 TRA12.3150 TC3 -.0300 BAU .0971
 RDE .6663 RRA .0400 RC3 -.0007 FAU-.00988
 FDE -.9681 FRA 2.3354 FC3 .0354 BSP 16880
 BDE 5.3624 BRA12.3150 BC3 .0300 FSP -274

MID-COURSE EXECUTION ACCURACY

SGT 4968.4 SGR 246.0 SG3 81.4
 RRT -.3385 RRF -.3236 RTF .9907
 SGB 4974.5 R23 -.0133 R13 -.9907
 SG1 4969.1 SG2 231.5 THA 179.04

ORBIT DETERMINATION ACCURACY

ST 2391.8 SR 245.6 SS 837.6
 CRT -.8094 CRS .7978 CST -.9998
 LSA 2541.9 MSA 145.0 SSA 6.8
 EL1 2400.0 EL2 143.7 ALF 175.23

LAUNCH DATE MAR 14 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 20 1969

HELIOCENTRIC CONIC

DISTANCE 591.182

RL 148.75 LAL .00 LOL 173.24 VL 25.097 GAL 35.20 AZL 98.01 MCA 336.02 SMA 114.95 ECC .62456 INC 8.0115 V1 29.955
 RP 107.51 LAP 3.25 LOP 149.47 VP 36.254 GAP 38.50 AZP 97.33 TAL 147.83 TAP 123.85 RCA 43.16 APO 186.74 V2 35.248
 RC 226.227 GL -9.54 GP -9.86 ZAL 35.70 ZAP 159.82 ETS 210.18 ZAE 128.50 ETE 187.65 ZAC 134.47 ETC 12.24 CLP 162.31

PLANETOCENTRIC CONIC

C3 297.126 VHL 17.237 CLA 6.14 RAL 138.14 RAD 6571.7 VEL 20.456 PTH 3.16 VHP 23.963 DPA 10.38 RAP 132.55 ECC 5.8899
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 21 33 2978.99 -28.09 94.90 44.52 86.27 9 11 12 2379.0 -28.31 86.24
 90.00 21 51 29 5240.14 26.63 236.08 38.18 80.00 23 18 49 4640.1 24.98 227.80
 100.00 9 45 49 2707.23 -29.69 75.03 44.64 86.38 10 30 56 2107.2 -29.88 66.23
 100.00 23 9 54 4987.14 28.21 217.16 37.86 79.68 24 33 1 4387.1 26.50 208.78
 110.00 11 0 44 2472.78 -34.04 57.54 44.95 86.68 11 41 57 1872.8 -34.13 48.30
 110.00 0 15 25 4794.36 32.49 201.58 36.92 78.74 1 35 19 4194.4 30.60 192.88

DIFFERENTIAL CORRECTIONS

TDE-5.8031 TRA13.4505 TC3 .0598 BAU .2377
 RDE .7282 RRA -.0526 RC3 -.0024 FAU-.01468
 FDE -1.0498 FRA 2.5385 FC3 .0428 BSP 16732
 BDE 5.8486 BRA13.4506 BC3 .0598 FSP -271

MID-COURSE EXECUTION ACCURACY

SGT 4897.3 SGR 242.8 SG3 80.3
 RRT -.4606 RRF -.4459 RTF .9930
 SGB 4903.3 R23 -.0139 R13 -.9930
 SG1 4898.5 SG2 215.5 THA 178.69

ORBIT DETERMINATION ACCURACY

ST 2353.8 SR 242.1 SS 894.4
 CRT -.8318 CRS .8205 CST -.9998
 LSA 2526.0 MSA 135.5 SSA 6.3
 EL1 2362.5 EL2 133.9 ALF 175.09

LAUNCH DATE MAR 15 1969

FLIGHT TIME 70.00

ARRIVAL DATE MAY 24 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 29.859 GAL -15.69 AZL 90.86 MCA 96.77 SMA 148.71 ECC .27051 INC .8630 V1 29.947
 RP 108.77 LAP -.86 LOP 271.01 VP 39.342 GAP -1.92 AZP 89.90 TAL 254.20 TAP 350.98 RCA 108.49 APO 188.94 V2 34.839
 RC 76.053 GL -2.87 GP 26.54 ZAL 171.51 ZAP 73.58 ETS 353.56 ZAE 155.07 ETE 93.00 ZAC 104.11 ETC 157.90 CLP -71.58

PLANETOCENTRIC CONIC

C3 74.736 VHL 8.645 DLA -1.75 RAL 3.19 RAD 6569.5 VEL 14.003 PTH 2.55 VHP 5.199 DPA 28.99 RAP 7.10 ECC 2.2300
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 18 10 2485.67 -25.09 59.41 246.77 103.58 0 59 36 1885.7 -22.97 51.38
 90.00 11 50 19 5237.91 26.60 235.92 248.30 79.92 13 17 37 4637.9 24.94 227.65
 100.00 1 38 42 2225.90 -26.50 39.92 246.38 104.36 2 15 48 1625.9 -24.27 31.83
 100.00 13 12 29 4972.91 28.03 216.14 248.00 79.17 14 35 21 4372.9 26.25 207.79
 110.00 2 45 5 2018.10 -30.31 22.94 245.18 106.61 3 18 43 1418.1 -27.74 14.70
 110.00 14 22 35 4753.47 31.90 198.54 247.06 77.02 15 41 49 4153.5 29.79 189.97

DIFFERENTIAL CORRECTIONS

TDE -.3712 TRA -.8146 TC3 -.0707 BAU .2303 SGT 606.0 SGR 529.5 SG3 184.0 ST 294.6 SR 242.5 SS 361.7
 RDE -.3406 RRA .4411 RC3 .2194 FAU .09290 RRT -.4637 RRF -.6484 RTF .6113 CRT .5777 CRS -.8020 CST -.9467
 FDE -1.1717 FRA -1.0346 FC3 -1.0761 BSP 1520 SGB 804.8 R23 .1276 R13 -.7259 LSA 496.8 MSA 171.0 SSA 19.5
 BDE .5037 BRA .9264 BC3 .2305 FSP -537 SG1 692.0 SG2 410.9 THA 143.13 EL1 341.1 EL2 170.9 ALF 35.63

LAUNCH DATE MAR 15 1969

FLIGHT TIME 72.00

ARRIVAL DATE MAY 26 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 29.820 GAL -15.51 AZL 91.05 MCA 99.94 SMA 148.33 ECC .26745 INC 1.0530 V1 29.947
 RP 108.80 LAP -1.04 LOP 274.17 VP 39.306 GAP -1.31 AZP 89.82 TAL 253.86 TAP 353.79 RCA 108.66 APO 188.01 V2 34.831
 RC 78.340 GL -3.54 GP 27.39 ZAL 171.10 ZAP 78.20 ETS 355.71 ZAE 153.71 ETE 100.38 ZAC 102.18 ETC 158.66 CLP -76.69

PLANETOCENTRIC CONIC

C3 73.124 VHL 8.551 DLA -2.29 RAL 3.62 RAD 6569.4 VEL 13.945 PTH 2.55 VHP 5.087 DPA 28.94 RAP 4.90 ECC 2.2034
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 23 55 2463.72 -24.73 57.90 246.62 104.25 1 4 59 1863.7 -22.53 49.92
 90.00 11 48 0 5249.67 26.74 236.76 248.60 80.32 13 15 30 4649.7 25.13 228.46
 100.00 1 44 12 2204.76 -26.14 38.45 246.21 105.05 2 20 57 1604.8 -23.81 30.42
 100.00 13 10 25 4983.86 28.17 216.92 248.31 79.56 14 33 29 4383.9 26.44 208.55
 110.00 2 50 0 1998.79 -29.93 21.57 244.96 107.34 3 23 19 1398.8 -27.27 13.39
 110.00 14 21 6 4762.60 32.04 199.22 247.40 77.40 15 40 29 4162.6 29.98 190.61

DIFFERENTIAL CORRECTIONS

TDE -.4099 TRA -.8744 TC3 -.1107 BAU .2549 SGT 674.6 SGR 543.4 SG3 192.3 ST 326.2 SR 230.8 SS 377.9
 RDE -.3177 RRA .4399 RC3 .2361 FAU .09596 RRT -.5209 RRF -.6725 RTF .6701 CRT .5687 CRS -.7950 CST -.9473
 FDE -1.2416 FRA -1.0428 FC3 -1.1361 BSP 1762 SGB 866.2 R23 .1311 R13 -.7586 LSA 522.0 MSA 172.2 SSA 19.6
 BDE .5186 BRA .9788 BC3 .2607 FSP -565 SG1 763.0 SG2 410.1 THA 146.35 EL1 360.9 EL2 171.6 ALF 29.10

LAUNCH DATE MAR 15 1969

FLIGHT TIME 74.00

ARRIVAL DATE MAY 28 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 29.775 GAL -15.33 AZL 91.25 MCA 103.10 SMA 147.89 ECC .26446 INC 1.2466 V1 29.947
 RP 108.82 LAP -1.21 LOP 277.34 VP 39.265 GAP -.73 AZP 89.72 TAL 253.40 TAP 356.50 RCA 108.78 APO 187.00 V2 34.824
 RC 80.651 GL -4.24 GP 28.18 ZAL 170.59 ZAP 82.73 ETS 357.91 ZAE 152.08 ETE 107.08 ZAC 100.33 ETC 159.43 CLP -81.75

PLANETOCENTRIC CONIC

C3 71.566 VHL 8.460 DLA -2.83 RAL 4.11 RAD 6569.4 VEL 13.889 PTH 2.54 VHP 5.007 DPA 28.86 RAP 2.79 ECC 2.1778
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 29 56 2441.78 -24.35 56.40 246.53 104.91 1 10 38 1841.8 -22.07 48.48
 90.00 11 45 56 5261.51 26.87 237.60 248.97 80.72 13 13 37 4661.5 25.31 229.28
 100.00 1 49 58 2183.64 -25.75 37.00 246.11 105.72 2 26 21 1583.6 -23.35 29.03
 100.00 13 8 36 4994.87 28.30 217.72 248.70 79.96 14 31 51 4394.9 26.63 209.32
 110.00 2 55 10 1979.50 -29.53 20.21 244.82 108.05 3 28 10 1379.5 -26.78 12.10
 110.00 14 19 52 4771.78 32.18 199.90 247.81 77.78 15 39 24 4171.8 30.16 191.26

DIFFERENTIAL CORRECTIONS

TDE -.4533 TRA -.9364 TC3 -.1541 BAU .2826 SGT 752.0 SGR 555.6 SG3 199.3 ST 361.4 SR 218.2 SS 393.9
 RDE -.2938 RRA .4358 RC3 .2520 FAU .09822 RRT -.5690 RRF -.6942 RTF .7168 CRT .5593 CRS -.7866 CST -.9482
 FDE -1.3047 FRA -1.0397 FC3 -1.1882 BSP 2033 SGB 935.0 R23 .1350 R13 -.7854 LSA 550.8 MSA 172.3 SSA 19.6
 BDE .5402 BRA 1.0328 BC3 .2954 FSP -593 SG1 841.0 SG2 408.5 THA 149.19 EL1 386.9 EL2 169.0 ALF 23.37

LAUNCH DATE MAR 15 1969

FLIGHT TIME 76.00

ARRIVAL DATE MAY 30 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 29.724 GAL -15.15 AZL 91.45 MCA 106.26 SMA 147.39 ECC .26154 INC 1.4453 V1 29.947
 RP 108.84 LAP -1.39 LOP 280.50 VP 39.220 GAP -.19 AZP 89.60 TAL 252.84 TAP 359.10 RCA 108.84 APO 185.94 V2 34.816
 RC 82.981 GL -4.96 GP 28.92 ZAL 169.99 ZAP 87.13 ETS .15 ZAE 150.24 ETE 113.03 ZAC 98.59 ETC 160.18 CLP -86.72

PLANETOCENTRIC CONIC

C3 70.053 VHL 8.370 DLA -3.38 RAL 4.67 RAD 6569.3 VEL 13.835 PTH 2.53 VHP 4.955 DPA 28.77 RAP .80 ECC 2.1529
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 36 15 2419.63 -23.96 54.90 246.52 105.56 1 16 35 1819.6 -21.59 47.03
 90.00 11 44 3 5273.57 27.00 238.46 249.41 81.13 13 11 56 4673.6 25.50 230.11
 100.00 1 56 1 2162.33 -25.35 35.54 246.08 106.39 2 32 3 1562.3 -22.86 27.63
 100.00 13 6 58 5006.10 28.43 218.53 249.14 80.36 14 30 24 4406.1 26.81 210.10
 110.00 3 0 38 1960.04 -29.11 18.85 244.74 108.76 3 33 18 1360.0 -26.28 10.82
 110.00 14 18 50 4781.16 32.31 200.60 248.29 78.18 15 38 31 4181.2 30.34 191.93

DIFFERENTIAL CORRECTIONS

TDE -.5020 TRA -1.0002 TC3 -.2007 BAU .3123 SGT 837.5 SGR 564.7 SG3 204.0 ST 400.6 SR 205.3 SS 407.8
 RDE -.2703 RRA .4274 RC3 .2663 FAU .09940 RRT -.6074 RRF -.7125 RTF .7529 CRT .5514 CRS -.7787 CST -.9495
 FDE -1.3544 FRA -1.0197 FC3 -1.2284 BSP 2318 SGB 1010.1 R23 .1403 R13 -.8065 LSA 582.5 MSA 171.3 SSA 19.7
 BDE .5701 BRA 1.0877 BC3 .3335 FSP -611 SG1 924.8 SG2 406.3 THA 151.83 EL1 419.4 EL2 163.6 ALF 18.73

LAUNCH DATE MAR 15 1969

FLIGHT TIME 78.00

ARRIVAL DATE JUN 1 1969

HELIOCENTRIC CONIC

DISTANCE 237.189

RL 148.79 LAL .00 LOL 174.24 VL 29.667 GAL -14.97 AZL 91.65 MCA 109.42 SMA 146.84 ECC .25867 INC 1.6503 V1 29.947
 RP 108.86 LAP -1.56 LOP 283.67 VP 39.171 GAP .33 AZP 89.45 TAL 252.18 TAP 1.61 RCA 108.85 APO 184.82 V2 34.810
 RC 85.328 GL -5.72 GP 29.61 ZAL 169.31 ZAP 91.35 ETS 2.42 ZAE 148.26 ETE 118.22 ZAC 96.98 ETC 160.89 CLP -91.55

PLANETOCENTRIC CONIC

C3 68.581 VHL 8.281 DLA -3.94 RAL 5.28 RAD 6569.3 VEL 13.782 PTH 2.52 VHP 4.930 DPA 28.70 RAP 358.96 ECC 2.1287
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 42 55 2397.07 -23.54 53.38 246.58 106.21 1 22 52 1797.1 -21.09 45.57
 90.00 11 42 17 5286.07 27.13 239.35 249.91 81.56 13 10 23 4686.1 25.68 230.98
 100.00 2 2 25 2140.63 -24.93 34.07 246.12 107.06 2 38 5 1540.6 -22.36 26.22
 100.00 13 5 29 5017.74 28.56 219.37 249.66 80.79 14 29 6 4417.7 26.99 210.91
 110.00 3 6 25 1940.25 -28.67 17.48 244.74 109.46 3 38 45 1340.3 -25.75 9.52
 110.00 14 17 58 4790.89 32.44 201.32 248.84 78.59 15 37 48 4190.9 30.53 192.63

DIFFERENTIAL CORRECTIONS

TOE -.5553 TRA-1.0644 TC3 -.2498 BAU .3440
 RDE -.2455 RRA .4167 RC3 .2799 FAU .09988
 FDE -1.3987 FRA -.9927 FC3-1.2608 BSP 2634
 BDE .6072 BRA 1.1430 BC3 .3752 FSP -633

MID-COURSE EXECUTION ACCURACY

SGT 929.3 SGR 572.1 SG3 207.6
 RRT -.6392 RRF -.7296 RTF .7811
 SGB 1091.3 R23 .1462 R13 -.8237
 SG1 1014.1 SG2 403.2 THA 154.14

ORBIT DETERMINATION ACCURACY

ST 443.6 SR 191.2 SS 422.3
 CRT .5410 CRS -.7680 CST -.9510
 LSA 618.7 MSA 169.2 SSA 19.7
 EL1 457.2 EL2 156.1 ALF 14.90

LAUNCH DATE MAR 15 1969

FLIGHT TIME 80.00

ARRIVAL DATE JUN 3 1969

HELIOCENTRIC CONIC

DISTANCE 243.432

RL 148.79 LAL .00 LOL 174.24 VL 29.605 GAL -14.79 AZL 91.86 MCA 112.58 SMA 146.24 ECC .25585 INC 1.8634 V1 29.947
 RP 108.88 LAP -1.72 LOP 286.83 VP 39.119 GAP .82 AZP 89.28 TAL 251.44 TAP 4.02 RCA 108.83 APO 183.66 V2 34.804
 RC 87.691 GL -6.52 GP 30.27 ZAL 168.55 ZAP 95.37 ETS 4.71 ZAE 146.18 ETE 122.71 ZAC 95.53 ETC 161.54 CLP -96.22

PLANETOCENTRIC CONIC

C3 67.146 VHL 8.194 DLA -4.53 RAL 5.96 RAD 6569.3 VEL 13.730 PTH 2.51 VHP 4.929 DPA 28.67 RAP 357.30 ECC 2.1051
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 49 59 2373.86 -23.09 51.83 246.70 106.87 1 29 33 1773.9 -20.56 44.07
 90.00 11 40 37 5299.22 27.26 240.29 250.49 82.02 13 8 56 4699.2 25.87 231.90
 100.00 2 9 12 2118.31 -24.47 32.57 246.23 107.72 2 44 30 1518.3 -21.82 24.78
 100.00 13 4 5 5030.00 28.69 220.25 250.25 81.24 14 27 55 4430.0 27.18 211.78
 110.00 3 12 34 1919.92 -28.20 16.08 244.80 110.17 3 44 34 1319.9 -25.20 8.20
 110.00 14 17 12 4801.15 32.58 202.09 249.46 79.03 15 37 13 4201.2 30.72 193.37

DIFFERENTIAL CORRECTIONS

TOE -.6136 TRA-1.1282 TC3 -.3008 BAU .3759
 RDE -.2220 RRA .4013 RC3 .2914 FAU .09916
 FDE -1.4261 FRA -.9481 FC3-1.2786 BSP 2946
 BDE .6525 BRA 1.1975 BC3 .4188 FSP -637

MID-COURSE EXECUTION ACCURACY

SGT 1026.3 SGR 575.6 SG3 208.6
 RRT -.6628 RRF -.7434 RTF .8020
 SGB 1176.7 R23 .1540 R13 -.8364
 SG1 1106.7 SG2 399.7 THA 156.34

ORBIT DETERMINATION ACCURACY

ST 490.5 SR 177.3 SS 433.9
 CRT .5328 CRS -.7586 CST -.9526
 LSA 657.5 MSA 166.2 SSA 19.7
 EL1 500.4 EL2 147.1 ALF 11.95

LAUNCH DATE MAR 15 1969

FLIGHT TIME 82.00

ARRIVAL DATE JUN 5 1969

HELIOCENTRIC CONIC

DISTANCE 249.635

RL 148.79 LAL .00 LOL 174.24 VL 29.539 GAL -14.61 AZL 92.09 MCA 115.74 SMA 145.61 ECC .25307 INC 2.0864 V1 29.947
 RP 108.90 LAP -1.88 LOP 289.99 VP 39.064 GAP 1.28 AZP 89.09 TAL 250.61 TAP 6.35 RCA 108.76 APO 182.46 V2 34.799
 RC 90.065 GL -7.37 GP 30.92 ZAL 167.70 ZAP 99.16 ETS 7.04 ZAE 144.07 ETE 126.55 ZAC 94.25 ETC 162.12 CLP -100.69

PLANETOCENTRIC CONIC

C3 65.750 VHL 8.109 DLA -5.14 RAL 6.70 RAD 6569.2 VEL 13.679 PTH 2.50 VHP 4.950 DPA 28.71 RAP 355.82 ECC 2.0821
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 57 32 2349.75 -22.60 50.23 246.89 107.53 1 36 41 1749.7 -19.99 42.53
 90.00 11 38 58 5313.29 27.39 241.30 251.14 82.51 13 7 31 4713.3 26.07 232.88
 100.00 2 16 27 2095.15 -23.98 31.02 246.40 108.40 2 51 22 1495.2 -21.25 23.29
 100.00 13 2 44 5043.11 28.83 221.21 250.92 81.72 14 26 47 4443.1 27.38 212.70
 110.00 3 19 9 1898.86 -27.70 14.65 244.93 110.88 3 50 48 1298.9 -24.61 6.85
 110.00 14 16 31 4812.17 32.72 202.92 250.17 79.50 15 36 43 4212.2 30.92 194.16

DIFFERENTIAL CORRECTIONS

TOE -.6765 TRA-1.1907 TC3 -.3533 BAU .4085
 RDE -.1977 RRA .3834 RC3 .3019 FAU .09780
 FDE -1.4467 FRA -.8972 FC3-1.2877 BSP 3277
 BDE .7048 BRA 1.2509 BC3 .4647 FSP -642

MID-COURSE EXECUTION ACCURACY

SGT 1127.2 SGR 577.2 SG3 208.3
 RRT -.6817 RRF -.7565 RTF .8181
 SGB 1266.4 R23 .1632 R13 -.8465
 SG1 1202.9 SG2 395.7 THA 158.29

ORBIT DETERMINATION ACCURACY

ST 541.3 SR 162.4 SS 445.5
 CRT .5213 CRS -.7463 CST -.9542
 LSA 700.8 MSA 162.4 SSA 19.7
 EL1 548.4 EL2 136.8 ALF 9.49

LAUNCH DATE MAR 15 1969

FLIGHT TIME 84.00

ARRIVAL DATE JUN 7 1969

HELIOCENTRIC CONIC

DISTANCE 255.800

RL 148.79 LAL .00 LOL 174.24 VL 29.468 GAL -14.42 AZL 92.32 MCA 118.90 SMA 144.95 ECC .25034 INC 2.3216 V1 29.947
 RP 108.91 LAP -2.03 LOP 293.15 VP 39.007 GAP 1.72 AZP 88.88 TAL 249.71 TAP 8.60 RCA 108.67 APO 181.24 V2 34.795
 RC 92.449 GL -8.28 GP 31.57 ZAL 166.77 ZAP 102.70 ETS 9.40 ZAE 141.95 ETE 129.82 ZAC 93.15 ETC 162.61 CLP -104.95

PLANETOCENTRIC CONIC

C3 64.394 VHL 8.025 DLA -5.78 RAL 7.50 RAD 6569.2 VEL 13.629 PTH 2.49 VHP 4.990 DPA 28.84 RAP 354.53 ECC 2.0598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 5 37 2324.46 -22.07 48.56 247.15 108.20 1 44 22 1724.5 -19.38 40.93
 90.00 11 37 16 5328.57 27.52 242.40 251.88 83.04 13 6 5 4728.6 26.27 233.96
 100.00 2 24 14 2070.88 -23.45 29.41 246.64 109.08 2 58 45 1470.9 -20.63 21.75
 100.00 13 1 21 5057.38 28.96 222.25 251.67 82.25 14 25 39 4457.4 27.59 213.71
 110.00 3 26 12 1876.83 -27.16 13.17 245.13 111.61 3 57 29 1276.8 -23.98 5.44
 110.00 14 15 52 4824.20 32.86 203.83 250.96 80.02 15 36 16 4224.2 31.14 195.03

DIFFERENTIAL CORRECTIONS

TOE -.7443 TRA-1.2510 TC3 -.4068 BAU .4407
 RDE -.1737 RRA .3619 RC3 .3106 FAU .09557
 FDE -1.4563 FRA -.8360 FC3-1.2849 BSP 3607
 BDE .7643 BRA 1.3023 BC3 .5119 FSP -635

MID-COURSE EXECUTION ACCURACY

SGT 1230.8 SGR 575.7 SG3 206.2
 RRT -.6955 RRF -.7680 RTF .8301
 SGB 1358.7 R23 .1740 R13 -.8539
 SG1 1301.2 SG2 391.2 THA 160.11

ORBIT DETERMINATION ACCURACY

ST 596.1 SR 147.2 SS 455.7
 CRT .5085 CRS -.7326 CST -.9558
 LSA 747.9 MSA 158.0 SSA 19.6
 EL1 601.0 EL2 125.7 ALF 7.49

LAUNCH DATE MAR 15 1969

FLIGHT TIME 86.00

ARRIVAL DATE JUN 9 1969

MELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 29.395 GAL -14.23 AZL 92.57 HCA 122.05 SMA 144.27 ECC .24766 INC 2.5714 V1 29.947
 RP 108.92 LAP -2.18 LOP 296.31 VP 38.948 GAP 2.13 AZP 88.63 TAL 248.73 TAP 10.78 RCA 108.54 APO 180.00 V2 34.791
 RC 94.840 GL -9.26 GP 32.25 ZAE 165.75 ZAP 105.98 ETS 11.80 ZAE 139.84 ETE 132.58 ZAC 92.23 ETC 163.01 CLP-109.00

PLANETOCENTRIC CONIC
 C3 63.086 VHL 7.943 DLA -6.47 RAL 8.37 RAD 6569.2 VEL 13.581 PTH 2.48 VHP 5.048 DPA 29.08 RAP 353.40 ECC 2.0382
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 14 22 2297.69 -21.49 46.82 247.48 108.89 1 52 40 1697.7 -18.72 39.24
 90.00 11 35 28 5345.45 27.65 243.62 252.72 83.64 13 4 34 4745.4 26.48 235.15
 100.00 2 32 38 2045.22 -22.87 27.73 246.96 109.79 3 6 43 1445.2 -19.97 20.14
 100.00 12 59 53 5073.16 29.10 223.40 252.52 82.85 14 24 27 4473.2 27.81 214.83
 110.00 3 33 50 1853.60 -26.57 11.62 245.39 112.35 4 4 44 1253.6 -23.30 3.98
 110.00 14 15 11 4837.53 33.02 204.84 251.86 80.60 15 35 48 4237.5 31.37 196.01

DIFFERENTIAL CORRECTIONS
 TDE -.8173 TRA-1.3084 TC3 -.4610 BAU .4727
 RDE -.1486 RRA .3382 RC3 .3187 FAU .09289
 FDE-1.4619 FRA -.7716 FC3-1.2747 BSP 3950
 BDE .8307 BRA 1.3514 BC3 .5605 FSP -630

MID-COURSE EXECUTION ACCURACY
 SGT 1336.5 SGR 572.8 SG3 203.1
 RRT -.7064 RRF -.7795 RTF .8393
 SGB 1454.0 R23 .1865 R13 -.8597
 SG1 1401.7 SG2 386.5 THA 161.72

ORBIT DETERMINATION ACCURACY
 ST 655.2 SR 131.0 SS 466.5
 CRT .4881 CRS -.7121 CST -.9574
 LSA 800.2 MSA 153.0 SSA 19.4
 EL1 658.4 EL2 113.7 ALF 5.74

LAUNCH DATE MAR 15 1969

FLIGHT TIME 88.00

ARRIVAL DATE JUN 11 1969

MELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 29.318 GAL -14.03 AZL 92.84 HCA 125.20 SMA 143.57 ECC .24503 INC 2.8390 V1 29.947
 RP 108.93 LAP -2.32 LOP 299.47 VP 38.888 GAP 2.53 AZP 88.36 TAL 247.69 TAP 12.90 RCA 108.39 APO 178.75 V2 34.788
 RC 97.236 GL -10.32 GP 32.98 ZAL 164.64 ZAP 108.99 ETS 14.26 ZAE 137.77 ETE 134.90 ZAC 91.47 ETC 163.32 CLP-112.83

PLANETOCENTRIC CONIC
 C3 61.834 VHL 7.863 DLA -7.22 RAL 9.32 RAD 6569.2 VEL 13.535 PTH 2.47 VHP 5.124 DPA 29.46 RAP 352.44 ECC 2.0176
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 23 54 2269.10 -20.85 44.96 247.90 109.60 2 1 43 1669.1 -17.99 37.46
 90.00 11 33 28 5364.35 27.79 244.98 253.66 84.31 13 2 53 4764.4 26.71 236.48
 100.00 2 41 47 2017.84 -22.23 25.95 247.36 110.52 3 15 25 1417.8 -19.24 18.43
 100.00 12 58 16 5090.85 29.24 224.69 253.49 83.51 14 23 7 4490.8 28.04 216.10
 110.00 3 42 7 1828.90 -25.92 10.00 245.74 113.11 4 12 36 1228.9 -22.56 2.45
 110.00 14 14 25 4852.55 33.18 205.99 252.87 81.26 15 35 17 4252.6 31.62 197.11

DIFFERENTIAL CORRECTIONS
 TDE -.8960 TRA-1.3623 TC3 -.5155 BAU .5041
 RDE -.1228 RRA .3120 RC3 .3257 FAU .08972
 FDE-1.4625 FRA -.7037 FC3-1.2561 BSP 4301
 BDE .9044 BRA 1.3976 BC3 .6098 FSP -621

MID-COURSE EXECUTION ACCURACY
 SGT 1443.8 SGR 568.3 SG3 199.0
 RRT -.7145 RRF -.7908 RTF .8463
 SGB 1551.6 R23 .2005 R13 -.8642
 SG1 1504.0 SG2 381.7 THA 163.18

ORBIT DETERMINATION ACCURACY
 ST 719.0 SR 113.9 SS 477.5
 CRT .4567 CRS -.6820 CST -.9591
 LSA 857.7 MSA 147.7 SSA 19.2
 EL1 720.9 EL2 101.0 ALF 4.22

LAUNCH DATE MAR 15 1969

FLIGHT TIME 90.00

ARRIVAL DATE JUN 13 1969

MELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 29.239 GAL -13.83 AZL 93.13 HCA 128.36 SMA 142.86 ECC .24246 INC 3.1283 V1 29.947
 RP 108.94 LAP -2.45 LOP 302.64 VP 38.826 GAP 2.90 AZP 88.06 TAL 246.59 TAP 14.95 RCA 108.22 APO 177.49 V2 34.786
 RC 99.636 GL -11.48 GP 33.78 ZAL 163.41 ZAP 111.72 ETS 16.79 ZAE 135.74 ETE 136.82 ZAC 90.86 ETC 163.54 CLP-116.44

PLANETOCENTRIC CONIC
 C3 60.651 VHL 7.788 DLA -8.04 RAL 10.34 RAD 6569.1 VEL 13.491 PTH 2.47 VHP 5.217 DPA 29.99 RAP 351.62 ECC 1.9982
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 34 20 2238.25 -20.14 42.99 248.41 110.34 2 11 38 1638.2 -17.19 35.55
 90.00 11 31 11 5385.83 27.92 246.54 254.73 85.08 13 0 57 4785.8 26.95 238.01
 100.00 2 51 48 1988.35 -21.51 24.05 247.85 111.27 3 24 56 1388.3 -18.43 16.61
 100.00 12 56 24 5110.96 29.39 226.17 254.58 84.28 14 21 35 4511.0 28.29 217.54
 110.00 3 51 11 1802.39 -25.20 8.27 246.18 113.90 4 21 14 1202.4 -21.75 .82
 110.00 14 13 30 4869.68 33.35 207.29 254.02 82.01 15 34 40 4269.7 31.89 198.37

DIFFERENTIAL CORRECTIONS
 TDE -.9806 TRA-1.4112 TC3 -.5695 BAU .5342
 RDE -.0968 RRA .2825 RC3 .3313 FAU .08600
 FDE-1.4561 FRA -.6299 FC3-1.2276 BSP 4637
 BDE .9854 BRA 1.4392 BC3 .6588 FSP -603

MID-COURSE EXECUTION ACCURACY
 SGT 1551.3 SGR 561.6 SG3 193.6
 RRT -.7190 RRF -.8014 RTF .8513
 SGB 1649.9 R23 .2166 R13 -.8671
 SG1 1606.2 SG2 377.0 THA 164.54

ORBIT DETERMINATION ACCURACY
 ST 787.5 SR 96.3 SS 487.6
 CRT .4107 CRS -.6386 CST -.9607
 LSA 920.1 MSA 142.3 SSA 18.9
 EL1 788.5 EL2 87.7 ALF 2.91

LAUNCH DATE MAR 15 1969

FLIGHT TIME 92.00

ARRIVAL DATE JUN 15 1969

MELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 29.158 GAL -13.63 AZL 93.44 HCA 131.51 SMA 142.13 ECC .23994 INC 3.4439 V1 29.947
 RP 108.94 LAP -2.58 LOP 303.80 VP 38.764 GAP 3.26 AZP 87.72 TAL 245.44 TAP 16.95 RCA 108.03 APO 176.23 V2 34.784
 RC 102.038 GL -12.74 GP 34.69 ZAL 162.07 ZAP 114.16 ETS 19.42 ZAE 133.73 ETE 138.41 ZAC 90.39 ETC 163.66 CLP-119.85

PLANETOCENTRIC CONIC
 C3 59.556 VHL 7.717 DLA -8.94 RAL 11.45 RAD 6569.1 VEL 13.450 PTH 2.46 VHP 5.326 DPA 30.69 RAP 350.90 ECC 1.9801
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 45 53 2204.66 -19.33 40.85 249.03 111.11 2 22 38 1604.7 -16.29 33.50
 90.00 11 28 29 5410.54 28.05 248.34 255.96 85.97 12 58 40 4810.5 27.20 239.78
 100.00 3 2 52 1956.31 -20.71 22.01 248.45 112.05 3 35 29 1356.3 -17.54 14.65
 100.00 12 54 11 5134.13 29.53 227.88 255.83 85.16 14 19 45 4534.1 28.55 219.21
 110.00 4 1 11 1773.71 -24.39 6.43 246.73 114.73 4 30 45 1173.7 -20.85 359.08
 110.00 14 12 22 4889.49 33.52 208.81 255.34 82.90 15 33 51 4289.5 32.18 199.84

DIFFERENTIAL CORRECTIONS
 TDE-1.0733 TRA-1.4556 TC3 -.6232 BAU .5639
 RDE -.0690 RRA .2512 RC3 .3364 FAU .08210
 FDE-1.4502 FRA -.5578 FC3-1.1935 BSP 4996
 BDE 1.0755 BRA 1.4772 BC3 .7083 FSP -588

MID-COURSE EXECUTION ACCURACY
 SGT 1660.5 SGR 554.9 SG3 187.9
 RRT -.7220 RRF -.8127 RTF .8554
 SGB 1750.8 R23 .2342 R13 -.8697
 SG1 1710.6 SG2 380.7 THA 165.74

ORBIT DETERMINATION ACCURACY
 ST 862.3 SR 77.9 SS 499.5
 CRT .3240 CRS -.5575 CST -.9625
 LSA 990.0 MSA 137.0 SSA 18.4
 EL1 862.7 EL2 73.7 ALF 1.69

LAUNCH DATE MAR 15 1969

FLIGHT TIME 94.00

ARRIVAL DATE JUN 17 1969

HELIOCENTRIC CONIC

DISTANCE 286.126

RL 148.79 LAL .00 LOL 174.24 VL 29.075 GAL -13.41 AZL 93.79 HCA 134.66 SMA 141.40 ECC .23749 INC 3.7918 V1 29.947
 RP 108.95 LAP -2.70 LOP 308.96 VP 38.701 GAP 3.59 AZP 87.33 TAL 244.23 TAP 18.89 RCA 107.82 APO 174.98 V2 34.783
 RC 104.441 GL -14.15 GP 35.73 ZAL 160.59 ZAP 116.30 ETS 22.17 ZAE 131.73 ETE 139.70 ZAC 90.02 ETC 163.71 CLP-123.08

PLANETOCENTRIC CONIC

C3 58.573 VHL 7.653 DLA -9.95 RAL 12.66 RAD 6569.1 VEL 13.414 PTH 2.45 VHP 5.454 DPA 31.57 RAP 350.26 ECC 1.9640
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 58 47 2167.73 -18.40 38.54 249.79 111.91 2 34 55 1567.7 -15.27 31.26
 90.00 11 25 14 5439.35 28.17 250.44 257.36 87.02 12 55 53 4839.4 27.46 241.84
 100.00 3 15 13 1921.15 -19.79 19.80 249.19 112.87 3 47 14 1321.2 -16.53 12.53
 100.00 12 51 29 5161.16 29.67 229.87 257.26 86.21 14 17 30 4561.2 28.83 221.17
 110.00 4 12 18 1742.42 -23.49 4.45 247.40 115.58 4 41 20 1142.4 -19.85 357.20
 110.00 14 10 54 4912.65 33.71 210.60 256.85 83.94 15 32 46 4312.7 32.50 201.57

DIFFERENTIAL CORRECTIONS

TOE-1.1751 TRA-1.4941 TC3 -.6759 BAU .5926
 RDE -.0399 RRA .2172 RC3 .3405 FAU .07793
 FDE-1.4429 FRA -.4851 FC3-1.1518 BSP 5359
 BOE 1.1758 BRA 1.5098 BC3 .7568 FSP -571

MID-COURSE EXECUTION ACCURACY

SGT 1770.3 SGR 547.5 SG3 181.5
 RRT -.7226 RRF -.8239 RTF .8588
 SGB 1853.0 R23 .2532 R13 -.8717
 SG1 1815.9 SG2 369.0 THA 166.85

ORBIT DETERMINATION ACCURACY

ST 943.9 SR 59.9 SS 512.3
 CRT .1576 CRS -.3985 CST -.9644
 LSA 1067.4 MSA 132.2 SSA 17.7
 EL1 944.0 EL2 59.2 ALF .58

LAUNCH DATE MAR 15 1969

FLIGHT TIME 96.00

ARRIVAL DATE JUN 19 1969

HELIOCENTRIC CONIC

DISTANCE 292.106

RL 148.79 LAL .00 LOL 174.24 VL 28.991 GAL -13.20 AZL 94.18 HCA 137.81 SMA 140.67 ECC .23510 INC 4.1797 V1 29.947
 RP 108.95 LAP -2.81 LOP 312.12 VP 38.638 GAP 3.91 AZP 86.90 TAL 242.97 TAP 20.78 RCA 107.60 APO 173.74 V2 34.783
 RC 106.844 GL -15.71 GP 36.94 ZAL 158.95 ZAP 118.12 ETS 25.06 ZAE 129.74 ETE 140.72 ZAC 89.74 ETC 163.67 CLP-126.13

PLANETOCENTRIC CONIC

C3 57.735 VHL 7.598 DLA -11.09 RAL 13.98 RAD 6569.1 VEL 13.383 PTH 2.45 VHP 5.603 DPA 32.66 RAP 349.66 ECC 1.9502
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 13 21 2126.68 -17.34 35.99 250.73 112.74 2 48 47 1526.7 -14.11 28.80
 90.00 11 21 14 5473.35 28.27 252.92 258.98 88.26 12 52 27 4873.4 27.73 244.30
 100.00 3 29 7 1882.21 -18.75 17.38 250.09 113.72 4 0 30 1282.2 -15.38 10.21
 100.00 12 48 8 5193.06 29.79 232.24 258.92 87.45 14 14 41 4593.1 29.12 223.50
 110.00 4 24 45 1707.98 -22.46 2.31 248.24 116.48 4 53 13 1108.0 -18.72 355.17
 110.00 14 8 59 4940.05 33.88 212.72 258.61 85.18 15 31 19 4340.0 32.84 203.63

DIFFERENTIAL CORRECTIONS

TOE-1.2869 TRA-1.5247 TC3 -.7258 BAU .6196
 RDE -.0103 RRA .1793 RC3 .3427 FAU .07339
 FDE-1.4317 FRA -.4094 FC3-1.1005 BSP 5695
 BOE 1.2870 BRA 1.5352 BC3 .8027 FSP -546

MID-COURSE EXECUTION ACCURACY

SGT 1879.1 SGR 538.8 SG3 174.1
 RRT -.7194 RRF -.8344 RTF .8611
 SGB 1954.8 R23 .2739 R13 -.8730
 SG1 1920.2 SG2 366.2 THA 167.90

ORBIT DETERMINATION ACCURACY

ST 1032.6 SR 44.9 SS 525.2
 CRT -.1623 CRS -.0757 CST -.9663
 LSA 1152.2 MSA 128.1 SSA 16.9
 EL1 1032.7 EL2 44.3 ALF 179.60

LAUNCH DATE MAR 15 1969

FLIGHT TIME 98.00

ARRIVAL DATE JUN 21 1969

HELIOCENTRIC CONIC

DISTANCE 298.061

RL 148.79 LAL .00 LOL 174.24 VL 28.906 GAL -12.97 AZL 94.62 HCA 140.96 SMA 139.94 ECC .23278 INC 4.6178 V1 29.947
 RP 108.94 LAP -2.91 LOP 315.29 VP 38.574 GAP 4.22 AZP 86.41 TAL 241.67 TAP 22.63 RCA 107.36 APO 172.51 V2 34.784
 RC 109.246 GL -17.47 GP 38.34 ZAL 157.13 ZAP 119.61 ETS 28.11 ZAE 127.71 ETE 141.52 ZAC 89.50 ETC 163.57 CLP-129.04

PLANETOCENTRIC CONIC

C3 57.092 VHL 7.556 DLA -12.38 RAL 15.44 RAD 6569.0 VEL 13.359 PTH 2.44 VHP 5.776 DPA 33.98 RAP 349.03 ECC 1.9396
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 29 59 2080.55 -16.11 33.17 251.88 113.61 3 4 39 1480.5 -12.78 26.07
 90.00 11 16 13 5513.99 28.32 255.89 260.87 89.75 12 48 7 4914.0 27.98 247.24
 100.00 3 44 58 1838.60 -17.53 14.72 251.22 114.61 4 15 37 1238.6 -14.06 7.64
 100.00 12 43 55 5231.18 29.88 235.07 260.85 88.93 14 11 6 4631.2 29.41 226.30
 110.00 4 38 53 1669.74 -21.28 359.97 249.28 117.41 5 6 43 1069.7 -17.44 352.94
 110.00 14 6 29 4972.80 34.04 215.26 260.66 86.68 15 29 22 4372.8 33.21 206.12

DIFFERENTIAL CORRECTIONS

TOE-1.4136 TRA-1.5479 TC3 -.7732 BAU .6458
 RDE .0215 RRA .1385 RC3 .3437 FAU .06875
 FDE-1.4231 FRA -.3368 FC3-1.0424 BSP 6062
 BOE 1.4137 BRA 1.5541 BC3 .8461 FSP -525

MID-COURSE EXECUTION ACCURACY

SGT 1989.6 SGR 530.7 SG3 166.5
 RRT -.7137 RRF -.8447 RTF .8636
 SGB 2059.1 R23 .2951 R13 -.8746
 SG1 2026.5 SG2 365.0 THA 168.85

ORBIT DETERMINATION ACCURACY

ST 1131.4 SR 39.4 SS 540.4
 CRT -.6653 CRS .4887 CST -.9684
 LSA 1248.2 MSA 124.9 SSA 15.8
 EL1 1131.8 EL2 29.4 ALF 178.67

LAUNCH DATE MAR 15 1969

FLIGHT TIME 100.00

ARRIVAL DATE JUN 23 1969

HELIOCENTRIC CONIC

DISTANCE 303.994

RL 148.79 LAL .00 LOL 174.24 VL 28.820 GAL -12.74 AZL 95.12 HCA 144.11 SMA 139.20 ECC .23054 INC 5.1196 V1 29.947
 RP 108.94 LAP -3.00 LOP 318.45 VP 38.511 GAP 4.51 AZP 85.85 TAL 240.33 TAP 24.43 RCA 107.11 APO 171.30 V2 34.785
 RC 111.645 GL -19.46 GP 39.97 ZAL 155.07 ZAP 120.74 ETS 31.37 ZAE 125.61 ETE 142.13 ZAC 89.27 ETC 163.41 CLP-131.83

PLANETOCENTRIC CONIC

C3 56.713 VHL 7.531 DLA -13.86 RAL 17.06 RAD 6569.0 VEL 13.344 PTH 2.44 VHP 5.979 DPA 35.54 RAP 348.33 ECC 1.9334
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 49 16 2028.02 -14.65 30.00 253.33 114.51 3 23 4 1428.0 -11.22 23.00
 90.00 11 9 51 5563.25 28.28 259.49 263.08 91.56 12 42 34 4963.3 28.19 250.83
 100.00 4 3 17 1789.19 -16.10 11.74 252.63 115.53 4 33 6 1189.2 -12.54 4.77
 100.00 12 38 30 5277.32 29.88 238.50 263.12 90.74 14 6 28 4677.3 29.67 229.70
 110.00 4 55 7 1626.87 -19.91 357.39 250.59 118.38 5 22 14 1026.9 -15.97 350.49
 110.00 14 3 10 5012.40 34.15 218.35 263.08 88.50 15 26 43 4412.4 33.57 209.15

DIFFERENTIAL CORRECTIONS

TOE-1.5586 TRA-1.5616 TC3 -.8158 BAU .6708
 RDE .0547 RRA .0934 RC3 .3424 FAU .06390
 FDE-1.4150 FRA -.2655 FC3 -.9754 BSP 6433
 BOE 1.5595 BRA 1.5644 BC3 .8848 FSP -502

MID-COURSE EXECUTION ACCURACY

SGT 2100.8 SGR 522.6 SG3 158.4
 RRT -.7038 RRF -.8536 RTF .8663
 SGB 2164.8 R23 .3163 R13 -.8765
 SG1 2133.8 SG2 365.5 THA 169.77

ORBIT DETERMINATION ACCURACY

ST 1241.9 SR 49.5 SS 557.6
 CRT -.9424 CRS .8762 CST -.9708
 LSA 1356.5 MSA 123.0 SSA 14.5
 EL1 1242.7 EL2 16.5 ALF 177.85

LAUNCH DATE MAR 15 1969

FLIGHT TIME 102.00

ARRIVAL DATE JUN 25 1969

HELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 28.733 GAL -12.50 AZL 95.70 HCA 147.25 SMA 138.48 ECC .22836 INC 5.7039 V1 29.947
 RP 108.93 LAP -3.08 LOP 321.62 VP 38.448 GAP 4.78 AZP 85.20 TAL 238.94 TAP 26.19 RCA 106.85 APO 170.10 V2 34.787
 RC 114.042 GL -21.73 GP 41.89 ZAL 152.74 ZAP 121.47 ETS 34.84 ZAE 123.41 ETE 142.60 ZAC 89.00 ETC 163.21 CLP-134.54

PLANETOCENTRIC CONIC
 C3 56.701 VHL 7.530 CLA -15.57 RAL 18.87 RAD 6569.0 VEL 13.344 PTH 2.44 VHP 6.221 DPA 37.36 RAP 347.47 ECC 1.9332
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 12 1 1967.26 -12.90 26.40 255.17 115.43 3 44 49 1367.3 -9.37 19.49
 90.00 11 1 34 5623.90 28.09 263.92 265.69 93.77 12 35 18 5023.9 28.31 255.26
 100.00 4 24 48 1732.43 -14.41 8.38 254.42 116.48 4 53 41 1132.4 -10.74 1.51
 100.00 12 31 28 5333.97 29.76 242.71 265.80 92.95 14 0 22 4734.0 29.85 233.90
 110.00 5 14 0 1578.30 -18.31 354.53 252.26 119.38 5 40 19 978.3 -14.26 347.76
 110.00 13 58 46 5060.86 34.18 222.13 265.97 90.74 15 23 6 4460.9 33.90 212.90

DIFFERENTIAL CORRECTIONS
 TOE-1.7272 TRA-1.5630 TC3 -.8511 BAU .6941
 RDE .0888 RRA .0427 RC3 .3377 FAU .05882
 FDE-1.4074 FRA -.1951 FC3 -.8980 BSP 6805
 BOE 1.7295 BRA 1.5636 BC3 .9156 FSP -476

MID-COURSE EXECUTION ACCURACY
 SGT 2212.4 SGR 514.1 SG3 149.6
 RRT -.6877 RRF -.8595 RTF .8694
 SGB 2271.3 R23 .3368 R13 -.8788
 SG1 2241.2 SG2 368.4 THA 170.67

ORBIT DETERMINATION ACCURACY
 ST 1366.0 SR 70.0 SS 576.6
 CRT -.9740 CRS .9781 CST -.9733
 LSA 1479.2 MSA 122.6 SSA 12.9
 EL1 1367.7 EL2 15.9 ALF 177.14

LAUNCH DATE MAR 15 1969

FLIGHT TIME 104.00

ARRIVAL DATE JUN 27 1969

HELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 28.646 GAL -12.26 AZL 96.40 HCA 150.39 SMA 137.76 ECC .22627 INC 6.3974 V1 29.947
 RP 108.93 LAP -3.16 LOP 324.78 VP 38.385 GAP 5.04 AZP 84.43 TAL 237.51 TAP 27.91 RCA 106.59 APO 168.93 V2 34.790
 RC 116.435 GL -24.35 GP 44.16 ZAL 150.07 ZAP 121.77 ETS 38.58 ZAE 121.03 ETE 142.97 ZAC 88.62 ETC 163.01 CLP-137.21

PLANETOCENTRIC CONIC
 C3 57.213 VHL 7.564 CLA -17.56 RAL 20.93 RAD 6569.0 VEL 13.363 PTH 2.44 VHP 6.516 DPA 39.47 RAP 346.33 ECC 1.9416
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 39 30 1895.53 -10.77 22.21 257.57 116.35 4 11 6 1295.5 -7.14 15.40
 90.00 10 50 33 5700.06 27.62 269.44 268.77 96.50 12 25 33 5100.1 28.23 260.83
 100.00 4 50 37 1666.07 -12.36 4.51 256.75 117.43 5 18 23 1066.1 -8.59 357.76
 100.00 12 22 8 5404.75 29.40 247.94 268.98 95.68 13 52 13 4804.7 29.87 239.16
 110.00 5 36 24 1522.83 -16.42 351.32 254.43 120.41 6 1 46 922.6 -12.26 344.68
 110.00 13 52 50 5120.95 34.02 226.82 269.42 93.51 15 18 11 4521.0 34.14 217.58

DIFFERENTIAL CORRECTIONS
 TOE-1.9267 TRA-1.5479 TC3 -.8744 BAU .7142
 RDE .1218 RRA -.0163 RC3 .3273 FAU .05337
 FDE-1.3974 FRA -.1241 FC3 -.8075 BSP 7139
 BOE 1.9305 BRA 1.5480 BC3 .9337 FSP -443

MID-COURSE EXECUTION ACCURACY
 SGT 2322.1 SGR 503.8 SG3 139.9
 RRT -.6613 RRF -.8595 RTF .8728
 SGB 2376.1 R23 .3558 R13 -.8814
 SG1 2346.5 SG2 374.0 THA 171.62

ORBIT DETERMINATION ACCURACY
 ST 1505.9 SR 93.5 SS 596.6
 CRT -.9500 CRS .9898 CST -.9760
 LSA 1617.7 MSA 123.6 SSA 11.2
 EL1 1508.5 EL2 29.2 ALF 176.62

LAUNCH DATE MAR 15 1969

FLIGHT TIME 106.00

ARRIVAL DATE JUN 29 1969

HELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 28.558 GAL -12.01 AZL 97.24 HCA 153.53 SMA 137.05 ECC .22425 INC 7.2392 V1 29.947
 RP 108.91 LAP -3.22 LOP 327.95 VP 38.323 GAP 5.29 AZP 83.51 TAL 236.05 TAP 29.58 RCA 106.31 APO 167.78 V2 34.794
 RC 118.823 GL -27.40 GP 46.83 ZAL 146.98 ZAP 121.56 ETS 42.63 ZAE 118.42 ETE 143.32 ZAC 88.07 ETC 162.86 CLP-139.90

PLANETOCENTRIC CONIC
 C3 58.508 VHL 7.649 CLA -19.89 RAL 23.32 RAD 6569.1 VEL 13.411 PTH 2.45 VHP 6.886 DPA 41.89 RAP 344.77 ECC 1.9629
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 13 45 1808.23 -8.09 17.19 260.78 117.23 4 43 53 1208.2 -4.37 10.48
 90.00 10 35 20 5798.31 26.67 276.47 272.39 99.90 12 11 58 5198.3 27.76 267.98
 100.00 5 22 26 1586.59 -9.83 359.97 259.85 118.37 5 48 52 986.6 -5.96 353.32
 100.00 12 9 20 5495.18 28.61 254.54 272.75 99.07 13 40 55 4895.2 29.56 245.87
 110.00 6 3 29 1457.91 -14.16 347.67 257.31 121.44 6 27 47 857.9 -9.90 341.17
 110.00 13 44 46 5196.62 33.55 232.68 273.57 96.95 15 11 22 4596.6 34.15 223.49

DIFFERENTIAL CORRECTIONS
 TOE-2.1723 TRA-1.5141 TC3 -.8828 BAU .7320
 RDE .1530 RRA -.0843 RC3 .3105 FAU .04777
 FDE-1.3903 FRA -.0580 FC3 -.7068 BSP 7513
 BOE 2.1777 BRA 1.5165 BC3 .9359 FSP -412

MID-COURSE EXECUTION ACCURACY
 SGT 2434.4 SGR 493.2 SG3 129.8
 RRT -.6221 RRF -.8502 RTF .8781
 SGB 2483.9 R23 .3704 R13 -.8857
 SG1 2454.2 SG2 383.1 THA 172.64

ORBIT DETERMINATION ACCURACY
 ST 1667.4 SR 117.2 SS 619.9
 CRT -.9197 CRS .9785 CST -.9790
 LSA 1778.3 MSA 126.2 SSA 9.4
 EL1 1670.9 EL2 45.9 ALF 176.30

LAUNCH DATE MAR 15 1969

FLIGHT TIME 108.00

ARRIVAL DATE JUL 1 1969

HELIOCENTRIC CONIC
 RL 148.79 LAL .00 LOL 174.24 VL 28.471 GAL -11.75 AZL 98.29 HCA 156.66 SMA 136.34 ECC .22231 INC 8.2893 V1 29.947
 RP 108.90 LAP -3.27 LOP 331.12 VP 38.262 GAP 5.53 AZP 82.38 TAL 234.56 TAP 31.22 RCA 106.03 APO 166.66 V2 34.798
 RC 121.206 GL -30.96 GP 49.98 ZAL 143.37 ZAP 120.78 ETS 47.05 ZAE 115.49 ETE 143.77 ZAC 87.25 ETC 162.87 CLP-142.74

PLANETOCENTRIC CONIC
 C3 61.019 VHL 7.811 CLA -22.61 RAL 26.13 RAD 6569.1 VEL 13.505 PTH 2.47 VHP 7.363 DPA 44.60 RAP 342.55 ECC 2.0042
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 58 39 1696.11 -4.55 10.86 265.23 117.98 5 26 55 1096.1 -.77 4.22
 90.00 10 12 50 642.86 24.78 307.81 276.55 104.16 10 23 33 42.9 26.49 299.56
 100.00 6 3 17 1487.53 -6.58 354.42 264.12 119.23 6 28 4 887.5 -2.63 347.85
 100.00 11 50 54 5614.72 27.03 263.07 277.16 103.29 13 24 29 5014.7 28.58 254.61
 110.00 6 37 12 1381.19 -11.39 343.45 261.21 122.45 7 0 13 781.2 -7.03 337.07
 110.00 13 33 28 5293.82 32.51 240.07 278.53 101.20 15 1 42 4693.8 33.71 231.04

DIFFERENTIAL CORRECTIONS
 TOE-2.4825 TRA-1.4530 TC3 -.8687 BAU .7455
 RDE .1751 RRA -.1658 RC3 .2839 FAU .04189
 FDE-1.3834 FRA .0052 FC3 -.5943 BSP 7893
 BOE 2.4886 BRA 1.4624 BC3 .9139 FSP -379

MID-COURSE EXECUTION ACCURACY
 SGT 2547.6 SGR 480.1 SG3 118.8
 RRT -.5590 RRF -.8217 RTF .8855
 SGB 2592.4 R23 .3793 R13 -.8920
 SG1 2562.0 SG2 395.9 THA 173.84

ORBIT DETERMINATION ACCURACY
 ST 1853.9 SR 135.1 SS 645.8
 CRT -.8817 CRS .9539 CST -.9822
 LSA 1963.5 MSA 130.0 SSA 7.7
 EL1 1857.8 EL2 63.6 ALF 176.32

LAUNCH DATE MAR 15 1969

FLIGHT TIME 110.00

ARRIVAL DATE JUL 3 1969

HELIOCENTRIC CONIC

DISTANCE 333.337

RL 148.79 LAL .00 LOL 174.24 VL 28.383 GAL -11.48 AZL 99.64 MCA 159.79 SMA 135.65 ECC .22044 INC 9.6443 V1 29.947
 RP 108.89 LAP -3.32 LOP 334.28 VP 38.201 GAP 5.75 A2P 80.94 TAL 233.03 TAP 32.81 RCA 105.75 APO 165.56 V2 34.803
 RC 123.581 GL -35.15 GP 53.71 ZAL 139.12 ZAP 119.35 ETS 51.99 ZAE 112.10 ETE 144.54 ZAC 86.04 ETC 163.23 CLP-145.92

PLANETOCENTRIC CONIC

C3 65.533 VHL 8.095 DLA -25.79 RAL 29.52 RAD 6569.2 VEL 13.671 PTH 2.50 VHP 8.004 OPA 47.59 RAP 339.33 ECC 2.0785
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 4 31 1531.51 .75 1.66 271.86 118.31 6 30 2 931.5 4.53 355.02
 90.00 9 34 0 841.89 20.82 321.05 280.88 109.64 9 48 2 241.9 23.31 313.26
 100.00 6 59 47 1353.06 -2.06 346.99 270.30 119.83 7 22 20 753.1 1.93 340.47
 100.00 11 21 25 5783.62 23.86 274.61 282.02 108.57 12 57 49 5183.6 26.17 266.58
 110.00 7 20 46 1287.23 -7.92 338.39 266.69 123.36 7 42 13 687.2 -3.47 332.12
 110.00 13 16 56 5422.22 30.42 249.49 284.34 106.41 14 47 18 4822.2 32.36 240.81

DIFFERENTIAL CORRECTIONS

TDE-2.8857 TRA-1.3486 TC3 -.8211 BAU .7503
 RDE .1722 RRA -.2672 RC3 .2434 FAU .03564
 FDE-1.3752 FRA .0669 FC3 -.4708 BSP 8217
 BDE 2.8909 BRA 1.3748 BC3 .8564 FSP -338

MID-COURSE EXECUTION ACCURACY

SGT 2657.5 SGR 462.9 SG3 106.9
 RRT -.4472 RRF -.7508 RTF .8957
 SGB 2697.6 R23 .3805 R13 -.9005
 SG1 2665.8 SG2 412.7 THA 175.44

ORBIT DETERMINATION ACCURACY

ST 2067.5 SR 137.7 SS 675.4
 CRT -.8056 CRS .8941 CST -.9855
 LSA 2174.5 MSA 134.8 SSA 6.1
 EL1 2070.4 EL2 81.5 ALF 176.92

LAUNCH DATE MAR 15 1969

FLIGHT TIME 112.00

ARRIVAL DATE JUL 5 1969

HELIOCENTRIC CONIC

DISTANCE 339.136

RL 148.79 LAL .00 LOL 174.24 VL 28.296 GAL -11.20 AZL 101.47 MCA 162.90 SMA 134.97 ECC .21864 INC11.4703 V1 29.947
 RP 108.87 LAP -3.35 LOP 337.45 VP 38.142 GAP 5.97 A2P 79.02 TAL 231.46 TAP 34.36 RCA 105.46 APO 164.48 V2 34.808
 RC 125.948 GL -40.05 GP 58.11 ZAL 134.08 ZAP 117.18 ETS 57.75 ZAE 108.11 ETE 146.05 ZAC 84.25 ETC 164.34 CLP-149.84

PLANETOCENTRIC CONIC

C3 73.603 VHL 8.579 DLA -29.45 RAL 33.72 RAD 6569.4 VEL 13.963 PTH 2.55 VHP 8.911 OPA 50.73 RAP 334.56 ECC 2.2113
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 81.55 6 56 37 1438.43 11.15 .39 283.26 117.43 7 20 36 838.4 14.74 353.47
 98.45 9 15 27 989.98 11.17 327.47 283.27 117.43 9 31 57 390.0 14.76 320.55
 100.00 8 44 10 1090.16 6.81 332.52 280.90 119.18 9 2 21 490.2 10.65 325.83
 100.00 10 10 35 813.48 15.58 316.66 285.54 115.84 10 24 9 213.5 18.93 309.47
 110.00 8 20 56 1163.38 -3.23 331.87 274.73 124.05 8 40 19 563.4 1.26 325.66
 110.00 12 50 19 5601.06 26.33 261.78 290.71 112.63 14 23 40 5001.1 29.16 253.74

DIFFERENTIAL CORRECTIONS

TDE-3.4373 TRA-1.1803 TC3 -.7317 BAU .7432
 RDE .1066 RRA -.3937 RC3 .1871 FAU .02922
 FDE-1.3722 FRA .1229 FC3 -.3438 BSP 8592
 BDE 3.4390 BRA 1.2443 BC3 .7553 FSP -300

MID-COURSE EXECUTION ACCURACY

SGT 2768.7 SGR 446.4 SG3 94.5
 RRT -.2371 RRF -.5796 RTF .9109
 SGB 2804.4 R23 .3687 R13 -.9132
 SG1 2770.8 SG2 433.3 THA 177.76

ORBIT DETERMINATION ACCURACY

ST 2311.9 SR 115.6 SS 706.0
 CRT -.5207 CRS .6411 CST -.9890
 LSA 2416.0 MSA 139.9 SSA 4.6
 EL1 2312.7 EL2 98.7 ALF 178.51

LAUNCH DATE MAR 15 1969

FLIGHT TIME 114.00

ARRIVAL DATE JUL 7 1969

HELIOCENTRIC CONIC

DISTANCE 344.900

RL 148.79 LAL .00 LOL 174.24 VL 28.209 GAL -10.91 AZL 104.08 MCA 165.98 SMA 134.30 ECC .21687 INC14.0769 V1 29.947
 RP 108.85 LAP -3.38 LOP 340.63 VP 38.083 GAP 6.16 A2P 76.33 TAL 229.86 TAP 35.84 RCA 105.18 APO 163.43 V2 34.815
 RC 128.306 GL -45.70 GP 63.24 ZAL 128.12 ZAP 114.18 ETS 65.09 ZAE 103.29 ETE 149.20 ZAC 81.65 ETC 167.08 CLP-155.45

PLANETOCENTRIC CONIC

C3 88.625 VHL 9.414 DLA -33.50 RAL 39.11 RAD 6569.7 VEL 14.490 PTH 2.63 VHP 10.270 OPA 53.70 RAP 327.46 ECC 2.4585
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 71.30 6 5 50 1708.47 11.03 20.69 291.96 121.83 6 34 19 1108.5 15.16 14.07
 108.70 10 49 14 804.71 11.05 313.43 291.97 121.83 11 2 39 204.7 15.18 306.81
 71.30 6 5 50 1708.47 11.03 20.69 291.96 121.83 6 34 19 1108.5 15.16 14.07
 108.70 10 49 14 804.71 11.05 313.43 291.97 121.83 11 2 39 204.7 15.18 306.81
 110.00 10 5 27 938.83 5.34 320.13 288.25 123.81 10 21 6 338.8 9.74 313.81
 110.00 11 48 48 622.35 16.86 302.86 295.57 120.19 11 59 10 22.3 20.74 295.89

DIFFERENTIAL CORRECTIONS

TDE-4.2142 TRA -.8907 TC3 -.5877 BAU .7093
 RDE -.1367 RRA -.5517 RC3 .1141 FAU .02255
 FDE-1.3790 FRA .1788 FC3 -.2203 BSP 8888
 BDE 4.2164 BRA 1.0478 BC3 .5987 FSP -256

MID-COURSE EXECUTION ACCURACY

SGT 2868.0 SGR 463.9 SG3 81.7
 RRT .1785 RRF -.1638 RTF .9320
 SGB 2905.3 R23 -.3400 R13 .9305
 SG1 2869.2 SG2 456.3 THA 1.70

ORBIT DETERMINATION ACCURACY

ST 2572.4 SR 146.8 SS 745.6
 CRT .6268 CRS -.5269 CST -.9925
 LSA 2678.4 MSA 144.7 SSA 3.5
 EL1 2574.1 EL2 114.3 ALF 2.05

LAUNCH DATE MAR 15 1969

FLIGHT TIME 116.00

ARRIVAL DATE JUL 9 1969

HELIOCENTRIC CONIC

DISTANCE 350.610

RL 148.79 LAL .00 LOL 174.24 VL 28.123 GAL -10.60 AZL 108.11 MCA 169.03 SMA 133.64 ECC .21509 INC18.1094 V1 29.947
 RP 108.83 LAP -3.39 LOP 343.80 VP 38.026 GAP 6.34 A2P 72.20 TAL 228.21 TAP 37.24 RCA 104.90 APO 162.39 V2 34.821
 RC 130.653 GL -51.91 GP 68.99 ZAL 121.15 ZAP 110.29 ETS 76.08 ZAE 97.29 ETE 156.22 ZAC 77.83 ETC 173.70 CLP-165.35

PLANETOCENTRIC CONIC

C3 119.194 VHL 10.918 DLA -37.57 RAL 46.22 RAD 6570.2 VEL 15.509 PTH 2.77 VHP 12.480 OPA 55.79 RAP 317.04 ECC 2.9616
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.21 5 54 10 1891.19 9.68 34.27 303.38 126.48 6 25 42 1291.2 14.37 28.05
 115.79 11 57 35 747.34 9.70 307.96 303.39 126.47 12 10 2 147.3 14.39 301.74
 64.21 5 54 10 1891.19 9.68 34.27 303.38 126.48 6 25 42 1291.2 14.37 28.05
 115.79 11 57 35 747.34 9.70 307.96 303.39 126.47 12 10 2 147.3 14.39 301.74
 64.21 5 54 10 1891.19 9.68 34.27 303.38 126.48 6 25 42 1291.2 14.37 28.05
 115.79 11 57 35 747.34 9.70 307.96 303.39 126.47 12 10 2 147.3 14.39 301.74

DIFFERENTIAL CORRECTIONS

TDE-5.3105 TRA -.3605 TC3 -.3883 BAU .6215
 RDE -.9313 RRA -.7102 RC3 .0361 FAU .01571
 FDE-1.4197 FRA .2415 FC3 -.1141 BSP 9221
 BDE 5.3915 BRA .7965 BC3 .3900 FSP -217

MID-COURSE EXECUTION ACCURACY

SGT 2922.8 SGR 682.8 SG3 69.3
 RRT .7053 RRF .4920 RTF .9600
 SGB 3001.5 R23 -.2871 R13 .9525
 SG1 2963.3 SG2 477.4 THA 9.61

ORBIT DETERMINATION ACCURACY

ST 2788.0 SR 508.7 SS 805.1
 CRT .9675 CRS -.9409 CST -.9960
 LSA 2942.4 MSA 147.6 SSA 2.6
 EL1 2831.2 EL2 126.7 ALF 10.03

LAUNCH DATE MAR 15 1969

FLIGHT TIME 118.00

ARRIVAL DATE JUL 11 1969

HELIOCENTRIC CONIC

DISTANCE 356.217

RL 148.79 LAL .00 LOL 174.24 VL 28.037 GAL -10.27 AZL 115.13 MCA 171.99 SMA 133.00 ECC .21315 INC25.1296 VI 29.947
 RP 108.80 LAP -3.39 LOP 346.97 VP 37.969 GAP 6.49 AZP 65.09 TAL 226.50 TAP 38.49 RCA 104.65 APO 161.35 V2 34.829
 RC 132.989 GL -57.76 GP 74.27 ZAL 113.27 ZAP 105.58 ETS 96.76 ZAE 89.37 ETE 173.32 ZAC 71.95 ETC 190.45 CLP 172.23

PLANETOCENTRIC CONIC

C3 191.872 VHL 13.852 DLA -40.53 RAL 55.63 RAD 6571.0 VEL 17.697 PTH 2.98 VHP 16.490 DPA 55.43 RAP 302.91 ECC 4.1577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.70 6 10 11 2038.28 6.61 44.09 317.82 130.08 6 44 9 1438.3 11.71 38.26
 120.30 12 56 41 771.13 6.63 307.49 317.84 130.08 13 9 32 171.1 11.73 301.66
 59.70 6 10 11 2038.28 6.61 44.09 317.82 130.08 6 44 9 1438.3 11.71 38.26
 120.30 12 56 41 771.13 6.63 307.49 317.84 130.08 13 9 32 171.1 11.73 301.66
 59.70 6 10 11 2038.28 6.61 44.09 317.82 130.08 6 44 9 1438.3 11.71 38.26
 120.30 12 56 41 771.13 6.63 307.49 317.84 130.08 13 9 32 171.1 11.73 301.66

DIFFERENTIAL CORRECTIONS

TDE-6.3048 TRA .6940 TC3 -.1545 BAU .3963
 RDE-3.6216 RRA -.5640 RC3 -.0022 FAU .00788
 FDE-1.5459 FRA .3469 FC3 -.0356 BSP 9467
 BDE 7.2709 BRA .8943 BC3 .1545 FSP -182

MID-COURSE EXECUTION ACCURACY

SGT 2669.6 SGR 1529.2 SG3 58.2
 RRT .9292 RRF .8738 RTF .9899
 SGB 3076.6 R23 -.2130 R13 .9747
 SG1 3036.2 SG2 496.8 THA 28.87

ORBIT DETERMINATION ACCURACY

ST 2610.4 SR 1500.9 SS 914.6
 CRT .9945 CRS -.9888 CST -.9990
 LSA 3143.4 MSA 149.8 SSA 1.9
 EL1 3008.0 EL2 136.4 ALF 29.83

LAUNCH DATE MAR 15 1969

FLIGHT TIME 120.00

ARRIVAL DATE JUL 13 1969

HELIOCENTRIC CONIC

DISTANCE 361.563

RL 148.79 LAL .00 LOL 174.24 VL 27.953 GAL -9.88 AZL 129.70 MCA 174.69 SMA 132.37 ECC .21064 INC39.6988 VI 29.947
 RP 108.78 LAP -3.39 LOP 350.15 VP 37.914 GAP 6.55 AZP 50.42 TAL 224.66 TAP 39.36 RCA 104.49 APO 160.25 V2 34.837
 RC 135.313 GL -59.85 GP 73.10 ZAL 105.01 ZAP 100.33 ETS 135.48 ZAE 77.59 ETE 208.73 ZAC 61.84 ETC 225.75 CLP 128.08

PLANETOCENTRIC CONIC

C3 413.821 VHL 20.343 DLA -39.29 RAL 67.12 RAD 6572.1 VEL 23.133 PTH 3.28 VHP 24.964 DPA 49.34 RAP 287.16 ECC 7.8104
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 61.53 7 4 28 2110.77 2.31 46.63 334.28 129.24 7 39 38 1510.8 7.34 40.81
 118.47 13 34 3 891.39 2.32 314.08 334.29 129.24 13 48 55 291.4 7.36 308.25
 61.53 7 4 28 2110.77 2.31 46.63 334.28 129.24 7 39 38 1510.8 7.34 40.81
 118.47 13 34 3 891.39 2.32 314.08 334.29 129.24 13 48 55 291.4 7.36 308.25
 61.53 7 4 28 2110.77 2.31 46.63 334.28 129.24 7 39 38 1510.8 7.34 40.81
 118.47 13 34 3 891.39 2.32 314.08 334.29 129.24 13 48 55 291.4 7.36 308.25

DIFFERENTIAL CORRECTIONS

TDE-3.2283 TRA 2.0409 TC3 -.0104 BAU .5010
 RDE-9.8392 RRA 1.4764 RC3 .0900 FAU-.00545
 FDE-1.8807 FRA .6192 FC3 .0114 BSP 9490
 BDE10.3553 BRA 2.5190 BC3 .0906 FSP -157

MID-COURSE EXECUTION ACCURACY

SGT 1174.8 SGR 2846.5 SG3 49.9
 RRT .8682 RRF .9770 RTF .9537
 SGB 3079.4 R23 -.1465 R13 .9890
 SG1 3030.3 SG2 547.6 THA 69.59

ORBIT DETERMINATION ACCURACY

ST 936.2 SR 2776.0 SS 1151.8
 CRT .9834 CRS -.9976 CST -.9936
 LSA 3143.3 MSA 169.9 SSA .7
 EL1 2925.1 EL2 161.1 ALF 71.59

LAUNCH DATE MAR 15 1969

FLIGHT TIME 122.00

ARRIVAL DATE JUL 15 1969

HELIOCENTRIC CONIC

DISTANCE 365.997

RL 148.79 LAL .00 LOL 174.24 VL 27.868 GAL -9.29 AZL 164.89 MCA 176.51 SMA 131.75 ECC .20581 INC74.8890 VI 29.947
 RP 108.75 LAP -3.37 LOP 353.33 VP 37.860 GAP 6.36 AZP 15.14 TAL 222.39 TAP 38.90 RCA 104.64 APO 158.87 V2 34.846
 RC 137.625 GL -48.72 GP 55.26 ZAL 98.09 ZAP 95.66 ETS 166.23 ZAE 56.73 ETE 234.40 ZAC 41.49 ETC 252.87 CLP 99.97

PLANETOCENTRIC CONIC

C31248.357 VHL 35.332 DLA -26.10 RAL 76.82 RAD 6573.1 VEL 37.009 PTH 3.54 VHP 44.115 DPA 30.85 RAP 275.32 ECC21.5448
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 9 19 49 1892.57 -10.68 22.04 342.70 116.38 9 51 21 1292.6 -7.05 15.24
 90.00 12 36 6 1247.55 9.75 345.65 352.83 116.72 12 56 54 647.5 13.26 338.73
 100.00 10 13 28 1719.30 -14.01 7.61 341.00 116.68 10 42 7 1119.3 -10.32 .76
 100.00 14 25 8 896.05 13.07 321.50 354.55 117.12 14 40 4 296.1 16.60 314.50
 110.00 10 32 41 1658.99 -20.94 359.32 337.27 117.66 11 0 20 1059.0 -17.07 352.33
 110.00 16 22 25 5817.16 19.96 275.32 358.32 118.34 17 59 22 5217.2 23.59 268.06

DIFFERENTIAL CORRECTIONS

TDE 3.5860 TRA 1.4902 TC3 -.0566 BAU 3.0460
 RD-12.6204 RRA 6.3866 RC3 .1735 FAU-.04661
 FDE-2.4380 FRA 1.4575 FC3 .0323 BSP 8430
 BDE13.1200 BRA 6.5582 BC3 .1825 FSP -146

MID-COURSE EXECUTION ACCURACY

SGT 755.3 SGR 2649.9 SG3 45.5
 RRT -.6845 RRF .9973 RTF -.6291
 SGB 2755.4 R23 -.1140 R13 .9935
 SG1 2702.0 SG2 540.0 THA 101.51

ORBIT DETERMINATION ACCURACY

ST 587.2 SR 2075.9 SS 1536.9
 CRT -.9537 CRS -.9996 CST .9444
 LSA 2642.6 MSA 182.0 SSA .6
 EL1 2150.6 EL2 170.4 ALF 105.20

LAUNCH DATE MAR 15 1969

FLIGHT TIME 124.00

ARRIVAL DATE JUL 17 1969

HELIOCENTRIC CONIC

DISTANCE 376.183

RL 148.79 LAL .00 LOL 174.24 VL 27.785 GAL -9.90 AZL 34.12 MCA 184.04 SMA 131.15 ECC .21712 INC55.8770 VI 29.947
 RP 108.72 LAP -3.34 LOP 356.50 VP 37.807 GAP 7.81 AZP 145.81 TAL 222.49 TAP 46.52 RCA 102.67 APO 159.62 V2 34.855
 RC 139.923 GL 55.62 GP -64.19 ZAL 101.03 ZAP 98.80 ETS 191.55 ZAE 71.65 ETE 121.51 ZAC 80.15 ETC 104.17 CLP 110.57

PLANETOCENTRIC CONIC

C3 753.834 VHL 27.456 DLA 73.70 RAL 29.71 RAD 6572.7 VEL 29.582 PTH 3.44 VHP 34.659 DPA -85.64 RAP 354.26 ECC13.4062
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 18.59 14 25 16 5077.23 -.56 249.02 299.56 16.30 15 49 53 4477.2 -8.23 247.17
 161.41 1 14 50 3303.41 -.55 94.56 299.54 16.30 2 9 53 2703.4 -8.23 92.71
 18.59 14 25 16 5077.23 -.56 249.02 299.56 16.30 15 49 53 4477.2 -8.23 247.17
 161.41 1 14 50 3303.41 -.55 94.56 299.54 16.30 2 9 53 2703.4 -8.23 92.71
 18.59 14 25 16 5077.23 -.56 249.02 299.56 16.30 15 49 53 4477.2 -8.23 247.17
 161.41 1 14 50 3303.41 -.55 94.56 299.54 16.30 2 9 53 2703.4 -8.23 92.71

DIFFERENTIAL CORRECTIONS

TDE -.0907 TRA .8646 TC3 -.0533 BAU 1.7354
 RD-12.3464 RRA 1.8130 RC3 -.1637 FAU-.02168
 FDE 2.3301 FRA -.2879 FC3 .0249 BSP 9529
 BDE12.3467 BRA 2.0086 BC3 .1722 FSP -154

MID-COURSE EXECUTION ACCURACY

SGT 706.8 SGR 3043.8 SG3 47.4
 RRT .5481 RRF -.9968 RTF -.4821
 SGB 3124.8 R23 -.1019 R13 -.9945
 SG1 3069.3 SG2 586.3 THA 82.47

ORBIT DETERMINATION ACCURACY

ST 194.0 SR 2608.2 SS 1468.8
 CRT .2511 CRS .9997 CST .2273
 LSA 2993.5 MSA 190.7 SSA 1.2
 EL1 2608.6 EL2 187.8 ALF 88.92

LAUNCH DATE MAR 15 1969

FLIGHT TIME 126.00

ARRIVAL DATE JUL 19 1969

HELIOCENTRIC CONIC

DISTANCE 381.127

RL 148.79 LAL .00 LOL 174.24 VL 27.702 GAL -9.41 AZL 58.70 MCA 186.37 SMA 130.56 ECC .21381 INC31.2999 V1 29.947
 RP 108.69 LAP -3.30 LOP 359.68 VP 37.755 GAP 7.75 AZP 121.14 TAL 220.48 TAP 46.84 RCA 102.64 APO 158.47 V2 34.865
 RC 142.207 GL 59.77 GP -72.81 ZAL 107.72 ZAP 104.74 ETS 234.10 ZAE 88.19 ETE 161.98 ZAC 96.19 ETC 146.76 CLP 149.44

PLANETOCENTRIC CONIC

C3 270.064 VHL 16.434 DLA 69.93 RAL 359.05 RAD 6571.6 VEL 19.783 PTH 3.13 VHP 20.706 DPA -70.96 RAP 52.60 ECC 5.4446
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 22.95 12 32 6 4974.08 -6.47 244.95 266.69 20.21 13 55 0 4374.1 -13.96 242.52
 157.05 22 59 27 3221.30 -6.46 94.98 266.67 20.21 23 53 8 2621.3 -13.96 92.56
 22.95 12 32 6 4974.08 -6.47 244.95 266.69 20.21 13 55 0 4374.1 -13.96 242.52
 157.05 22 59 27 3221.30 -6.46 94.98 266.67 20.21 23 53 8 2621.3 -13.96 92.56
 22.95 12 32 6 4974.08 -6.47 244.95 266.69 20.21 13 55 0 4374.1 -13.96 242.52
 157.05 22 59 27 3221.30 -6.46 94.98 266.67 20.21 23 53 8 2621.3 -13.96 92.56

DIFFERENTIAL CORRECTIONS

TDE 3.4834 TRA-1.5207 TC3 -.0368 BAU .1667
 RDE -2.6563 RRA 2.6199 RC3 -.0278 FAU .00551
 FDE 1.0172 FRA -.5199 FC3 -.0177 BSP 10505
 BOE 4.3807 BRA 3.0292 BC3 .0462 FSP -177

MID-COURSE EXECUTION ACCURACY

SGT 1968.7 SGR 2819.3 SG3 55.2
 RRT -.9413 RRF -.9598 RTF .9968
 SGB 3438.6 R23 -.1686 R13 -.9845
 SG1 3394.0 SG2 552.0 THA 124.35

ORBIT DETERMINATION ACCURACY

ST 1299.9 SR 1222.7 SS 694.9
 CRT -.9404 CRS .9579 CST -.9984
 LSA 1889.0 MSA 315.1 SSA 1.6
 EL1 1757.9 EL2 307.5 ALF 136.86

LAUNCH DATE MAR 15 1969

FLIGHT TIME 128.00

ARRIVAL DATE JUL 21 1969

HELIOCENTRIC CONIC

DISTANCE 386.583

RL 148.79 LAL .00 LOL 174.24 VL 27.621 GAL -9.02 AZL 69.24 MCA 189.22 SMA 129.98 ECC .21213 INC20.7605 V1 29.947
 RP 108.66 LAP -3.26 LOP 2.87 VP 37.705 GAP 7.84 AZP 110.51 TAL 218.63 TAP 47.85 RCA 102.41 APO 157.55 V2 34.875
 RC 144.478 GL 55.94 GP -68.71 ZAL 114.30 ZAP 111.29 ETS 271.55 ZAE 98.16 ETE 197.50 ZAC 105.49 ETC 183.37 CLP 178.77

PLANETOCENTRIC CONIC

C3 136.244 VHL 11.672 DLA 63.58 RAL 357.36 RAD 6570.5 VEL 16.049 PTH 2.83 VHP 14.677 DPA -59.67 RAP 52.31 ECC 3.2422
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 30.60 12 42 32 4840.49 -12.73 237.06 260.87 27.35 14 3 13 4240.5 -19.80 233.58
 149.40 22 35 29 3138.06 -12.72 95.52 260.85 27.35 23 27 47 2538.1 -19.79 92.04
 30.60 12 42 32 4840.49 -12.73 237.06 260.87 27.35 14 3 13 4240.5 -19.80 233.58
 149.40 22 35 29 3138.06 -12.72 95.52 260.85 27.35 23 27 47 2538.1 -19.79 92.04
 30.60 12 42 32 4840.49 -12.73 237.06 260.87 27.35 14 3 13 4240.5 -19.80 233.58
 149.40 22 35 29 3138.06 -12.72 95.52 260.85 27.35 23 27 47 2538.1 -19.79 92.04

DIFFERENTIAL CORRECTIONS

TDE 2.5146 TRA-2.8232 TC3 -.2964 BAU .5421
 RDE .0918 RRA 1.0593 RC3 .0270 FAU .01698
 FDE .7767 FRA -.5588 FC3 -.1079 BSP 11116
 BOE 2.5162 BRA 3.0154 BC3 .2976 FSP -215

MID-COURSE EXECUTION ACCURACY

SGT 3401.1 SGR 1163.0 SG3 66.0
 RRT -.9043 RRF -.7981 RTF .9769
 SGB 3594.4 R23 -.2406 R13 -.9677
 SG1 3563.0 SG2 473.9 THA 162.50

ORBIT DETERMINATION ACCURACY

ST 1544.3 SR 351.0 SS 536.7
 CRT -.4933 CRS .3147 CST -.9809
 LSA 1640.7 MSA 322.7 SSA 2.1
 EL1 1554.4 EL2 303.4 ALF 173.35

LAUNCH DATE MAR 15 1969

FLIGHT TIME 130.00

ARRIVAL DATE JUL 23 1969

HELIOCENTRIC CONIC

DISTANCE 392.194

RL 148.79 LAL .00 LOL 174.24 VL 27.540 GAL -8.66 AZL 74.74 MCA 192.23 SMA 129.42 ECC .21105 INC15.2619 V1 29.947
 RP 108.63 LAP -3.20 LOP 6.05 VP 37.656 GAP 7.97 AZP 104.93 TAL 216.83 TAP 49.06 RCA 102.10 APO 156.73 V2 34.885
 RC 146.734 GL 50.52 GP -61.95 ZAL 119.83 ZAP 117.59 ETS 285.17 ZAE 105.24 ETE 208.65 ZAC 112.14 ETC 195.46 CLP-170.06

PLANETOCENTRIC CONIC

C3 86.208 VHL 9.285 DLA 57.68 RAL .92 RAD 6569.7 VEL 14.407 PTH 2.62 VHP 11.697 DPA -50.73 RAP 50.74 ECC 2.4188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 37.40 13 13 46 4714.75 -17.40 228.39 259.49 34.08 14 32 20 4114.8 -23.96 223.91
 142.60 22 32 39 3074.12 -17.39 95.12 259.47 34.08 23 23 54 2474.1 -23.95 90.64
 37.40 13 13 46 4714.75 -17.40 228.39 259.49 34.08 14 32 20 4114.8 -23.96 223.91
 142.60 22 32 39 3074.12 -17.39 95.12 259.47 34.08 23 23 54 2474.1 -23.95 90.64
 37.40 13 13 46 4714.75 -17.40 228.39 259.49 34.08 14 32 20 4114.8 -23.96 223.91
 142.60 22 32 39 3074.12 -17.39 95.12 259.47 34.08 23 23 54 2474.1 -23.95 90.64

DIFFERENTIAL CORRECTIONS

TDE 1.8383 TRA-2.8387 TC3 -.6504 BAU .7501
 RDE .4628 RRA .3865 RC3 -.0247 FAU .02453
 FDE .7278 FRA -.5553 FC3 -.2464 BSP 11541
 BOE 1.8957 BRA 2.8649 BC3 .6508 FSP -257

MID-COURSE EXECUTION ACCURACY

SGT 3671.4 SGR 531.7 SG3 78.3
 RRT -.5545 RRF -.2836 RTF .9500
 SGB 3709.7 R23 -.3014 R13 -.9471
 SG1 3683.4 SG2 441.0 THA 175.34

ORBIT DETERMINATION ACCURACY

ST 1501.4 SR 315.4 SS 493.9
 CRT .4065 CRS -.6653 CST -.9525
 LSA 1580.2 MSA 317.5 SSA 3.0
 EL1 1507.1 EL2 287.1 ALF 5.06

LAUNCH DATE MAR 15 1969

FLIGHT TIME 132.00

ARRIVAL DATE JUL 25 1969

HELIOCENTRIC CONIC

DISTANCE 397.867

RL 148.79 LAL .00 LOL 174.24 VL 27.461 GAL -8.30 AZL 78.07 MCA 195.31 SMA 128.87 ECC .21030 INC11.9275 V1 29.947
 RP 108.59 LAP -3.13 LOP 9.23 VP 37.608 GAP 8.12 AZP 101.52 TAL 215.04 TAP 50.35 RCA 101.77 APO 155.97 V2 34.897
 RC 148.977 GL 45.27 GP -55.45 ZAL 124.14 ZAP 123.34 ETS 291.06 ZAE 110.62 ETE 211.61 ZAC 117.46 ETC 199.34 CLP-165.71

PLANETOCENTRIC CONIC

C3 62.486 VHL 7.905 DLA 52.89 RAL 5.06 RAD 6569.2 VEL 13.559 PTH 2.48 VHP 10.038 DPA -43.19 RAP 49.66 ECC 2.0284
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 43.27 13 46 45 4605.01 -20.34 219.87 258.78 40.05 15 3 30 4005.0 -26.37 214.55
 136.73 22 32 45 3033.51 -20.33 94.56 258.77 40.05 23 23 18 2433.5 -26.36 89.24
 43.27 13 46 45 4605.01 -20.34 219.87 258.78 40.05 15 3 30 4005.0 -26.37 214.55
 136.73 22 32 45 3033.51 -20.33 94.56 258.77 40.05 23 23 18 2433.5 -26.36 89.24
 43.27 13 46 45 4605.01 -20.34 219.87 258.78 40.05 15 3 30 4005.0 -26.37 214.55
 136.73 22 32 45 3033.51 -20.33 94.56 258.77 40.05 23 23 18 2433.5 -26.36 89.24

DIFFERENTIAL CORRECTIONS

TDE 1.4845 TRA-2.7055 TC3-1.0223 BAU .8569
 RDE .4782 RRA .1569 RC3 -.0838 FAU .03021
 FDE .6977 FRA -.5273 FC3 -.4186 BSP 11837
 BOE 1.5596 BRA 2.7100 BC3 1.0258 FSP -295

MID-COURSE EXECUTION ACCURACY

SGT 3785.9 SGR 416.2 SG3 90.4
 RRT -.0162 RRF .3297 RTF .9270
 SGB 3808.8 R23 -.3449 R13 -.9270
 SG1 3786.0 SG2 416.1 THA 179.90

ORBIT DETERMINATION ACCURACY

ST 1452.9 SR 351.2 SS 468.9
 CRT .6233 CRS -.8670 CST -.9299
 LSA 1535.3 MSA 311.5 SSA 4.0
 EL1 1469.9 EL2 271.5 ALF 8.87

LAUNCH DATE MAR 15 1969

FLIGHT TIME 134.00

ARRIVAL DATE JUL 27 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 27.382 GAL -7.94 AZL 80.31 HCA 198.43 SMA 128.33 ECC .20977 INC 9.6921 V1 29.947
 RP 108.56 LAP -3.05 LOP 12.42 VP 37.561 GAP 8.28 AZP 99.20 TAL 213.24 TAP 51.67 RCA 101.41 APO 155.25 V2 34.908
 RC 151.204 GL 40.58 GP -49.70 ZAL 127.32 ZAP 128.43 ETS 294.37 ZAE 114.81 ETE 211.77 ZAC 121.95 ETC 200.42 CLP-163.95

DISTANCE 403.566

PLANETOCENTRIC CONIC

C3 49.260 VHL 7.019 CLA 48.91 RAL 9.01 RAD 6568.8 VEL 13.062 PTH 2.38 VHP 9.042 DPA -36.71 RAP 49.17 ECC 1.8107
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 48.30 14 18 20 4509.64 -22.02 211.93 258.37 45.15 15 33 30 3909.6 -27.53 205.96
 131.70 22 32 38 3011.82 -22.01 94.26 258.35 45.15 23 22 49 2411.8 -27.52 88.29
 48.30 14 18 20 4509.64 -22.02 211.93 258.37 45.15 15 33 30 3909.6 -27.53 205.96
 131.70 22 32 38 3011.82 -22.01 94.26 258.35 45.15 23 22 49 2411.8 -27.52 88.29
 48.30 14 18 20 4509.64 -22.02 211.93 258.37 45.15 15 33 30 3909.6 -27.53 205.96
 131.70 22 32 38 3011.82 -22.01 94.26 258.35 45.15 23 22 49 2411.8 -27.52 88.29

DIFFERENTIAL CORRECTIONS

TDE 1.2547 TRA-2.5700 TC3-1.3974 BAU .9243
 RDE .4389 RRA .0668 RC3 -.1303 FAU .03454
 FDE .6592 FRA -.4840 FC3 -.6070 BSP 12182
 BDE 1.3293 BRA 2.5708 BC3 1.4035 FSP -331

MID-COURSE EXECUTION ACCURACY

SGT 3884.1 SGR 410.8 SG3 101.4
 RRT .2888 RRF .6198 RTF .9087
 SGB 3905.7 R23 .3705 R13 .9098
 SG1 3885.9 SG2 393.1 THA 1.77

ORBIT DETERMINATION ACCURACY

ST 1403.4 SR 359.2 SS 443.8
 CRT .6813 CRS -.9235 CST -.9098
 LSA 1483.8 MSA 306.4 SSA 5.2
 EL1 1425.4 EL2 258.9 ALF 10.23

LAUNCH DATE MAR 15 1969

FLIGHT TIME 136.00

ARRIVAL DATE JUL 29 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 27.305 GAL -7.58 AZL 81.91 HCA 201.57 SMA 127.81 ECC .20944 INC 8.0853 V1 29.947
 RP 108.52 LAP -2.96 LOP 15.61 VP 37.516 GAP 8.45 AZP 97.53 TAL 211.44 TAP 53.00 RCA 101.04 APO 154.57 V2 34.920
 RC 153.416 GL 36.49 GP -44.72 ZAL 129.52 ZAP 132.90 ETS 296.61 ZAE 118.09 ETE 210.81 ZAC 125.86 ETC 200.38 CLP-163.34

DISTANCE 409.279

PLANETOCENTRIC CONIC

C3 40.981 VHL 6.402 CLA 45.62 RAL 12.67 RAD 6568.6 VEL 12.742 PTH 2.32 VHP 8.414 DPA -31.11 RAP 49.18 ECC 1.6744
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 52.61 14 48 6 4425.49 -22.90 204.72 258.27 49.40 16 1 51 3825.5 -27.95 198.27
 127.39 22 32 4 3003.51 -22.88 94.34 258.25 49.39 23 22 8 2403.5 -27.94 87.89
 52.61 14 48 6 4425.49 -22.90 204.72 258.27 49.40 16 1 51 3825.5 -27.95 198.27
 127.39 22 32 4 3003.51 -22.88 94.34 258.25 49.39 23 22 8 2403.5 -27.94 87.89
 52.61 14 48 6 4425.49 -22.90 204.72 258.27 49.40 16 1 51 3825.5 -27.95 198.27
 127.39 22 32 4 3003.51 -22.88 94.34 258.25 49.39 23 22 8 2403.5 -27.94 87.89

DIFFERENTIAL CORRECTIONS

TDE 1.0895 TRA-2.4412 TC3-1.7670 BAU .9722
 RDE .3972 RRA .0274 RC3 -.1628 FAU .03764
 FDE .6134 FRA -.4294 FC3 -.7951 BSP 12505
 BDE 1.1596 BRA 2.4413 BC3 1.7744 FSP -361

MID-COURSE EXECUTION ACCURACY

SGT 3978.2 SGR 413.6 SG3 110.6
 RRT .4306 RRF .7328 RTF .8941
 SGB 3999.7 R23 .3815 R13 .8957
 SG1 3982.2 SG2 372.9 THA 2.59

ORBIT DETERMINATION ACCURACY

ST 1354.1 SR 355.7 SS 417.3
 CRT .7001 CRS -.9483 CST -.8901
 LSA 1429.3 MSA 302.3 SSA 6.6
 EL1 1377.6 EL2 249.7 ALF 10.78

LAUNCH DATE MAR 15 1969

FLIGHT TIME 138.00

ARRIVAL DATE JUL 31 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 27.228 GAL -7.21 AZL 83.13 HCA 204.72 SMA 127.30 ECC .20929 INC 6.8697 V1 29.947
 RP 108.48 LAP -2.87 LOP 18.80 VP 37.472 GAP 8.62 AZP 96.25 TAL 209.63 TAP 54.35 RCA 100.65 APO 153.94 V2 34.932
 RC 155.612 GL 32.93 GP -40.46 ZAL 130.88 ZAP 136.78 ETS 298.30 ZAE 120.66 ETE 209.39 ZAC 129.35 ETC 199.85 CLP-163.30

DISTANCE 414.998

PLANETOCENTRIC CONIC

C3 35.330 VHL 5.944 CLA 42.89 RAL 16.10 RAD 6568.4 VEL 12.518 PTH 2.27 VHP 8.007 DPA -26.24 RAP 49.58 ECC 1.5814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 56.33 15 16 16 4349.85 -23.30 198.21 258.50 52.91 16 28 45 3749.9 -27.96 191.41
 123.67 22 31 19 3004.18 -23.29 94.76 258.49 52.90 23 21 23 2404.2 -27.94 87.96
 56.33 15 16 16 4349.85 -23.30 198.21 258.50 52.91 16 28 45 3749.9 -27.96 191.41
 123.67 22 31 19 3004.18 -23.29 94.76 258.49 52.90 23 21 23 2404.2 -27.94 87.96
 56.33 15 16 16 4349.85 -23.30 198.21 258.50 52.91 16 28 45 3749.9 -27.96 191.41
 123.67 22 31 19 3004.18 -23.29 94.76 258.49 52.90 23 21 23 2404.2 -27.94 87.96

DIFFERENTIAL CORRECTIONS

TDE .9647 TRA-2.3171 TC3-2.1294 BAU 1.0095
 RDE .3631 RRA .0086 RC3 -.1839 FAU .03968
 FDE .5645 FRA -.3680 FC3 -.9723 BSP 12807
 BDE 1.0308 BRA 2.3172 BC3 2.1374 FSP -384

MID-COURSE EXECUTION ACCURACY

SGT 4070.3 SGR 412.8 SG3 118.0
 RRT .5025 RRF .7760 RTF .8826
 SGB 4091.2 R23 .3806 R13 .8843
 SG1 4075.6 SG2 356.4 THA 2.94

ORBIT DETERMINATION ACCURACY

ST 1306.6 SR 350.0 SS 390.4
 CRT .7059 CRS -.9628 CST -.8701
 LSA 1375.7 MSA 299.1 SSA 8.1
 EL1 1330.5 EL2 243.5 ALF 11.08

LAUNCH DATE MAR 15 1969

FLIGHT TIME 140.00

ARRIVAL DATE AUG 2 1969

HELIOCENTRIC CONIC

RL 148.79 LAL .00 LOL 174.24 VL 27.153 GAL -6.83 AZL 84.09 HCA 207.88 SMA 126.80 ECC .20931 INC 5.9134 V1 29.947
 RP 108.45 LAP -2.76 LOP 21.99 VP 37.429 GAP 8.79 AZP 95.23 TAL 207.81 TAP 55.69 RCA 100.26 APO 153.34 V2 34.945
 RC 157.792 GL 29.81 GP -36.82 ZAL 131.53 ZAP 140.16 ETS 299.64 ZAE 122.70 ETE 207.82 ZAC 132.55 ETC 199.13 CLP-163.57

DISTANCE 420.718

PLANETOCENTRIC CONIC

C3 31.211 VHL 5.587 CLA 40.63 RAL 19.39 RAD 6568.2 VEL 12.352 PTH 2.23 VHP 7.742 DPA -21.99 RAP 50.30 ECC 1.5137
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 59.55 15 43 9 4280.78 -23.45 192.31 259.05 55.81 16 54 29 3680.8 -27.76 185.25
 120.45 22 30 41 3010.76 -23.43 95.44 259.04 55.80 23 20 51 2410.8 -27.75 88.39
 59.55 15 43 9 4280.78 -23.45 192.31 259.05 55.81 16 54 29 3680.8 -27.76 185.25
 120.45 22 30 41 3010.76 -23.43 95.44 259.04 55.80 23 20 51 2410.8 -27.75 88.39
 59.55 15 43 9 4280.78 -23.45 192.31 259.05 55.81 16 54 29 3680.8 -27.76 185.25
 120.45 22 30 41 3010.76 -23.43 95.44 259.04 55.80 23 20 51 2410.8 -27.75 88.39

DIFFERENTIAL CORRECTIONS

TDE .8651 TRA-2.1979 TC3-2.4905 BAU 1.0425
 RDE .3365 RRA -.0018 RC3 -.1980 FAU .04096
 FDE .5136 FRA -.3054 FC3 -1.1361 BSP 13175
 BDE .9282 BRA 2.1979 BC3 2.4984 FSP -406

MID-COURSE EXECUTION ACCURACY

SGT 4165.6 SGR 409.9 SG3 124.0
 RRT .5441 RRF .7882 RTF .8742
 SGB 4185.7 R23 .3686 R13 .8758
 SG1 4171.6 SG2 343.4 THA 3.09

ORBIT DETERMINATION ACCURACY

ST 1260.2 SR 345.1 SS 362.8
 CRT .7067 CRS -.9727 CST -.8497
 LSA 1323.3 MSA 296.1 SSA 9.8
 EL1 1284.4 EL2 239.6 ALF 11.35

LAUNCH DATE MAR 15 1969

FLIGHT TIME 142.00

ARRIVAL DATE AUG 4 1969

HELIOCENTRIC CONIC

DISTANCE 426.450

RL 148.79 LAL .00 LOL 174.24 VL 27.079 GAL -6.45 AZL 84.86 HCA 211.05 SMA 126.31 ECC .20948 INC 5.1376 V1 29.947
 RP 108.41 LAP -2.65 LOP 25.18 VP 37.387 GAP 8.96 AZP 94.40 TAL 205.97 TAP 57.02 RCA 99.85 APO 152.77 V2 34.957
 RC 159.953 GL 27.07 GP -33.70 ZAL 131.58 ZAP 143.11 ETS 300.72 ZAE 124.32 ETE 206.26 ZAC 135.54 ETC 198.35 CLP-164.01

PLANETOCENTRIC CONIC

C3 28.041 VHL 5.295 DLA 38.75 RAL 22.61 RAD 6568.1 VEL 12.224 PTH 2.20 VHP 7.569 DPA -18.27 RAP 51.28 ECC 1.4615
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 62.36 16 9 0 4217.02 -23.46 186.94 259.90 58.22 17 19 17 3617.0 -27.48 179.70
 117.64 22 30 28 3020.89 -23.44 96.30 259.89 58.21 23 20 49 2420.9 -27.47 89.06
 62.36 16 9 0 4217.02 -23.46 186.94 259.90 58.22 17 19 17 3617.0 -27.48 179.70
 117.64 22 30 28 3020.89 -23.44 96.30 259.89 58.21 23 20 49 2420.9 -27.47 89.06
 62.36 16 9 0 4217.02 -23.46 186.94 259.90 58.22 17 19 17 3617.0 -27.48 179.70
 117.64 22 30 28 3020.89 -23.44 96.30 259.89 58.21 23 20 49 2420.9 -27.47 89.06

DIFFERENTIAL CORRECTIONS

TDE .8944 TRA-1.9704 TC3-2.6987 BAU 1.0138
 RDE .3396 RRA .0168 RC3 -.1725 FAU .03796
 FDE .5396 FRA -.1636 FC3-1.1719 BSP 10934
 BDE .9567 BRA 1.9705 BC3 2.7042 FSP -264

MID-COURSE EXECUTION ACCURACY

SGT 4071.8 SGR 411.0 SG3 120.1
 RRT .4863 RRF .7629 RTF .8361
 SGB 4092.4 R23 .4042 R13 .8378
 SG1 4076.7 SG2 358.7 THA 2.83

ORBIT DETERMINATION ACCURACY

ST 1271.4 SR 367.6 SS 385.2
 CRT .7496 CRS -.9897 CST -.8333
 LSA 1343.9 MSA 306.0 SSA 10.7
 EL1 1302.0 EL2 237.6 ALF 12.66

LAUNCH DATE MAR 15 1969

FLIGHT TIME 144.00

ARRIVAL DATE AUG 6 1969

HELIOCENTRIC CONIC

DISTANCE 432.158

RL 148.79 LAL .00 LOL 174.24 VL 27.005 GAL -6.06 AZL 85.51 HCA 214.22 SMA 125.84 ECC .20986 INC 4.4921 V1 29.947
 RP 108.37 LAP -2.52 LOP 28.38 VP 37.346 GAP 9.14 AZP 93.72 TAL 204.14 TAP 58.36 RCA 99.43 APO 152.24 V2 34.970
 RC 162.097 GL 24.60 GP -31.01 ZAL 131.14 ZAP 145.71 ETS 301.56 ZAE 125.62 ETE 204.75 ZAC 138.36 ETC 197.56 CLP-164.58

PLANETOCENTRIC CONIC

C3 25.531 VHL 5.053 DLA 37.16 RAL 25.78 RAD 6568.0 VEL 12.121 PTH 2.17 VHP 7.463 DPA -14.97 RAP 52.45 ECC 1.4202
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 64.86 16 34 12 4157.34 -23.38 181.99 261.02 60.26 17 43 30 3557.3 -27.15 174.61
 115.14 22 30 36 3034.01 -23.37 97.33 261.01 60.25 23 21 10 2434.0 -27.14 89.95
 64.86 16 34 12 4157.34 -23.38 181.99 261.02 60.26 17 43 30 3557.3 -27.15 174.61
 115.14 22 30 36 3034.01 -23.37 97.33 261.01 60.25 23 21 10 2434.0 -27.14 89.95
 64.86 16 34 12 4157.34 -23.38 181.99 261.02 60.26 17 43 30 3557.3 -27.15 174.61
 115.14 22 30 36 3034.01 -23.37 97.33 261.01 60.25 23 21 10 2434.0 -27.14 89.95

DIFFERENTIAL CORRECTIONS

TDE .7416 TRA-1.9378 TC3-3.1832 BAU 1.0888
 RDE .3060 RRA -.0074 RC3 -.2084 FAU .04109
 FDE .4307 FRA -.1670 FC3-1.3932 BSP 13459
 BDE .8022 BRA 1.9378 BC3 3.1900 FSP -410

MID-COURSE EXECUTION ACCURACY

SGT 4319.3 SGR 406.0 SG3 130.4
 RRT .5692 RRF .7645 RTF .8583
 SGB 4338.4 R23 .3321 R13 .8597
 SG1 4325.6 SG2 333.4 THA 3.08

ORBIT DETERMINATION ACCURACY

ST 1183.4 SR 347.1 SS 319.4
 CRT .7182 CRS -.9886 CST -.8080
 LSA 1239.9 MSA 292.2 SSA 13.5
 EL1 1210.5 EL2 236.1 ALF 12.37

LAUNCH DATE MAR 15 1969

FLIGHT TIME 146.00

ARRIVAL DATE AUG 8 1969

HELIOCENTRIC CONIC

DISTANCE 437.872

RL 148.79 LAL .00 LOL 174.24 VL 26.933 GAL -5.66 AZL 86.06 HCA 217.40 SMA 125.37 ECC .21039 INC 3.9436 V1 29.947
 RP 108.33 LAP -2.39 LOP 31.57 VP 37.306 GAP 9.33 AZP 93.13 TAL 202.30 TAP 59.70 RCA 99.00 APO 151.75 V2 34.983
 RC 164.221 GL 22.37 GP -28.69 ZAL 130.25 ZAP 148.01 ETS 302.22 ZAE 126.68 ETE 203.35 ZAC 141.08 ETC 196.81 CLP-165.21

PLANETOCENTRIC CONIC

C3 23.464 VHL 4.844 DLA 35.82 RAL 28.99 RAD 6568.0 VEL 12.035 PTH 2.15 VHP 7.404 DPA -12.03 RAP 53.81 ECC 1.3862
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 67.09 16 58 55 4101.24 -23.28 177.42 262.40 61.98 18 7 17 3501.2 -26.84 169.92
 112.91 22 31 26 3048.65 -23.27 98.45 262.39 61.97 23 22 15 2448.6 -26.82 90.96
 67.09 16 58 55 4101.24 -23.28 177.42 262.40 61.98 18 7 17 3501.2 -26.84 169.92
 112.91 22 31 26 3048.65 -23.27 98.45 262.39 61.97 23 22 15 2448.6 -26.82 90.96
 67.09 16 58 55 4101.24 -23.28 177.42 262.40 61.98 18 7 17 3501.2 -26.84 169.92
 112.91 22 31 26 3048.65 -23.27 98.45 262.39 61.97 23 22 15 2448.6 -26.82 90.96

DIFFERENTIAL CORRECTIONS

TDE .6918 TRA-1.8105 TC3-3.5427 BAU 1.1134
 RDE .2956 RRA -.0092 RC3 -.2135 FAU .04078
 FDE .3881 FRA -.1057 FC3-1.5045 BSP 13789
 BDE .7524 BRA 1.8105 BC3 3.5491 FSP -419

MID-COURSE EXECUTION ACCURACY

SGT 4407.2 SGR 406.5 SG3 132.7
 RRT .5757 RRF .7433 RTF .8547
 SGB 4425.9 R23 .3039 R13 .8559
 SG1 4413.5 SG2 331.9 THA 3.06

ORBIT DETERMINATION ACCURACY

ST 1143.6 SR 349.8 SS 296.4
 CRT .7249 CRS -.9931 CST -.7864
 LSA 1197.9 MSA 288.7 SSA 15.7
 EL1 1172.6 EL2 235.0 ALF 13.03

LAUNCH DATE MAR 15 1969

FLIGHT TIME 148.00

ARRIVAL DATE AUG 10 1969

HELIOCENTRIC CONIC

DISTANCE 443.582

RL 148.79 LAL .00 LOL 174.24 VL 26.862 GAL -5.25 AZL 86.53 HCA 220.59 SMA 124.92 ECC .21110 INC 3.4691 V1 29.947
 RP 108.29 LAP -2.26 LOP 34.77 VP 37.267 GAP 9.51 AZP 92.64 TAL 200.45 TAP 61.03 RCA 98.55 APO 151.30 V2 34.996
 RC 166.326 GL 20.32 GP -26.68 ZAL 128.98 ZAP 150.06 ETS 302.69 ZAE 127.55 ETE 202.06 ZAC 143.72 ETC 196.11 CLP-165.87

PLANETOCENTRIC CONIC

C3 21.733 VHL 4.662 DLA 34.66 RAL 32.24 RAD 6567.9 VEL 11.963 PTH 2.13 VHP 7.380 DPA -9.40 RAP 55.31 ECC 1.3577
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 69.12 17 23 27 4047.92 -23.16 173.13 264.04 63.46 18 30 55 3447.9 -26.53 165.55
 110.88 22 32 54 3064.72 -23.15 99.66 264.03 63.45 23 23 59 2464.7 -26.52 92.08
 69.12 17 23 27 4047.92 -23.16 173.13 264.04 63.46 18 30 55 3447.9 -26.53 165.55
 110.88 22 32 54 3064.72 -23.15 99.66 264.03 63.45 23 23 59 2464.7 -26.52 92.08
 69.12 17 23 27 4047.92 -23.16 173.13 264.04 63.46 18 30 55 3447.9 -26.53 165.55
 110.88 22 32 54 3064.72 -23.15 99.66 264.03 63.45 23 23 59 2464.7 -26.52 92.08

DIFFERENTIAL CORRECTIONS

TDE .6539 TRA-1.6757 TC3-3.9007 BAU 1.1351
 RDE .2886 RRA -.0092 RC3 -.2176 FAU .04010
 FDE .3499 FRA -.1049 FC3-1.5972 BSP 14053
 BDE .7147 BRA 1.6758 BC3 3.9068 FSP -423

MID-COURSE EXECUTION ACCURACY

SGT 4488.0 SGR 408.8 SG3 134.1
 RRT .5761 RRF .7182 RTF .8516
 SGB 4506.6 R23 .2751 R13 .8527
 SG1 4494.3 SG2 333.7 THA 3.02

ORBIT DETERMINATION ACCURACY

ST 1105.5 SR 354.8 SS 276.0
 CRT .7364 CRS -.9957 CST -.7641
 LSA 1158.8 MSA 284.6 SSA 18.0
 EL1 1137.3 EL2 233.3 ALF 13.89

LAUNCH DATE MAR 15 1969

FLIGHT TIME 150.00

ARRIVAL DATE AUG 12 1969

HELIOCENTRIC CONIC

DISTANCE 449.286

RL 148.79 LAL .00 LOL 174.24 VL 26.793 GAL -4.83 AZL 86.95 MCA 223.77 SMA 124.48 ECC .21200 INC 3.0522 VI 29.947
 RP 108.24 LAP -2.11 LOP 37.97 VP 37.229 GAP 9.70 AZP 92.20 TAL 198.59 TAP 62.36 RCA 98.09 APO 150.88 V2 35.010
 RC 168.410 GL 18.41 GP -24.92 ZAL 127.35 ZAP 151.89 ETS 302.98 ZAE 128.28 ETE 200.90 ZAC 146.30 ETC 195.46 CLP-166.56

PLANETOCENTRIC CONIC

C3 20.262 VHL 4.501 DLA 33.66 RAL 35.59 RAD 6567.8 VEL 11.901 PTH 2.11 VHP 7.383 DPA -7.04 RAP 56.94 ECC 1.3335
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 70.99 17 48 3 3996.82 -23.03 169.07 265.93 64.75 18 54 39 3396.8 -26.24 161.42
 109.01 22 34 59 3082.18 -23.02 100.95 265.93 64.74 23 26 21 2482.2 -26.22 93.30
 70.99 17 48 3 3996.82 -23.03 169.07 265.93 64.75 18 54 39 3396.8 -26.24 161.42
 109.01 22 34 59 3082.18 -23.02 100.95 265.93 64.74 23 26 21 2482.2 -26.22 93.30
 110.00 23 26 21 2925.09 -27.15 90.71 267.90 68.38 24 15 6 2325.1 -29.83 82.55
 110.00 21 55 51 3201.91 -19.02 108.07 263.74 61.05 22 49 13 2601.9 -22.74 100.90

DIFFERENTIAL CORRECTIONS

TDE .6222 TRA-1.5357 TC3-4.2624 BAU 1.1562
 RDE .2836 RRA -.0080 RC3 -.2222 FAU .03923
 FDE .3139 FRA .0131 FC3-1.6761 BSP 14334
 BDE .6837 BRA 1.5357 BC3 4.2682 FSP -426

MID-COURSE EXECUTION ACCURACY

SGT 4568.1 SGR 412.9 SG3 134.9
 RRT .5739 RRF .6918 RTF .8497
 SGB 4586.7 R23 .2461 R13 .8507
 SG1 4574.3 SG2 337.6 THA 2.99

ORBIT DETERMINATION ACCURACY

ST 1066.2 SR 361.0 SS 256.6
 CRT .7511 CRS -.9951 CST -.7402
 LSA 1120.0 MSA 279.4 SSA 20.5
 EL1 1101.8 EL2 230.6 ALF 14.94

LAUNCH DATE MAR 15 1969

FLIGHT TIME 152.00

ARRIVAL DATE AUG 14 1969

HELIOCENTRIC CONIC

DISTANCE 454.983

RL 148.79 LAL .00 LOL 174.24 VL 26.724 GAL -4.40 AZL 87.32 MCA 226.97 SMA 124.06 ECC .21309 INC 2.6809 VI 29.947
 RP 108.20 LAP -1.96 LOP 41.17 VP 37.192 GAP 9.90 AZP 91.83 TAL 196.72 TAP 63.69 RCA 97.62 APO 150.49 V2 35.023
 RC 170.474 GL 16.61 GP -23.38 ZAL 125.41 ZAP 153.55 ETS 303.10 ZAE 128.89 ETE 199.84 ZAC 148.85 ETC 194.85 CLP-167.27

PLANETOCENTRIC CONIC

C3 19.004 VHL 4.359 DLA 32.77 RAL 39.04 RAD 6567.8 VEL 11.848 PTH 2.10 VHP 7.407 DPA -4.90 RAP 58.68 ECC 1.3128
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 72.77 18 13 4 3946.98 -22.89 165.15 268.08 65.88 19 18 51 3347.0 -25.95 157.45
 107.23 22 37 31 3101.63 -22.87 102.38 268.07 65.87 23 29 13 2501.6 -25.93 94.68
 72.77 18 13 4 3946.98 -22.89 165.15 268.08 65.88 19 18 51 3347.0 -25.95 157.45
 107.23 22 37 31 3101.63 -22.87 102.38 268.07 65.87 23 29 13 2501.6 -25.93 94.68
 110.00 0 12 59 2819.86 -29.58 83.49 270.95 72.03 0 59 59 2219.9 -31.75 74.95
 110.00 21 40 43 3276.74 -16.50 112.41 264.59 59.63 22 35 19 2676.7 -20.41 105.46

DIFFERENTIAL CORRECTIONS

TDE .5952 TRA-1.3886 TC3-4.6226 BAU 1.1759
 RDE .2801 RRA -.0056 RC3 -.2272 FAU .03818
 FDE .2802 FRA .0691 FC3-1.7391 BSP 14596
 BDE .6578 BRA 1.3886 BC3 4.6282 FSP -427

MID-COURSE EXECUTION ACCURACY

SGT 4644.0 SGR 418.1 SG3 135.1
 RRT .5692 RRF .6651 RTF .8487
 SGB 4662.7 R23 .2181 R13 .8495
 SG1 4650.1 SG2 343.3 THA 2.95

ORBIT DETERMINATION ACCURACY

ST 1025.0 SR 368.1 SS 238.4
 CRT .7695 CRS -.9899 CST -.7137
 LSA 1080.7 MSA 272.6 SSA 23.4
 EL1 1065.3 EL2 226.2 ALF 16.20

LAUNCH DATE MAR 15 1969

FLIGHT TIME 154.00

ARRIVAL DATE AUG 16 1969

HELIOCENTRIC CONIC

DISTANCE 460.672

RL 148.79 LAL .00 LOL 174.24 VL 26.656 GAL -3.96 AZL 87.65 MCA 230.16 SMA 123.64 ECC .21437 INC 2.3461 VI 29.947
 RP 108.16 LAP -1.80 LOP 44.38 VP 37.156 GAP 10.10 AZP 91.50 TAL 194.85 TAP 65.01 RCA 97.13 APO 150.14 V2 35.036
 RC 172.518 GL 14.90 GP -22.02 ZAL 123.16 ZAP 155.05 ETS 303.05 ZAE 129.42 ETE 198.89 ZAC 151.37 ETC 194.29 CLP-167.98

PLANETOCENTRIC CONIC

C3 17.928 VHL 4.234 DLA 31.96 RAL 42.62 RAD 6567.7 VEL 11.803 PTH 2.09 VHP 7.450 DPA -2.96 RAP 60.51 ECC 1.2950
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 74.52 18 38 52 3897.53 -22.72 161.29 270.48 66.90 19 43 49 3297.5 -25.65 153.55
 105.48 22 40 19 3123.74 -22.71 103.99 270.48 66.89 23 32 23 2523.7 -25.64 96.25
 74.52 18 38 52 3897.53 -22.72 161.29 270.48 66.90 19 43 49 3297.5 -25.65 153.55
 105.48 22 40 19 3123.74 -22.71 103.99 270.48 66.89 23 32 23 2523.7 -25.64 96.25
 110.00 0 45 54 2747.06 -30.99 78.29 273.70 74.80 1 31 41 2147.1 -32.77 69.52
 110.00 21 36 22 3322.21 -14.92 114.98 266.26 58.88 22 31 45 2722.2 -18.93 108.16

DIFFERENTIAL CORRECTIONS

TDE .5726 TRA-1.2323 TC3-4.9751 BAU 1.1937
 RDE .2779 RRA -.0017 RC3 -.2320 FAU .03695
 FDE .2493 FRA .1242 FC3-1.7841 BSP 14802
 BDE .6365 BRA 1.2323 BC3 4.9805 FSP -424

MID-COURSE EXECUTION ACCURACY

SGT 4713.1 SGR 424.3 SG3 134.8
 RRT .5623 RRF .6391 RTF .8479
 SGB 4732.2 R23 .1930 R13 .8487
 SG1 4719.2 SG2 350.4 THA 2.91

ORBIT DETERMINATION ACCURACY

ST 981.8 SR 376.1 SS 222.4
 CRT .7923 CRS -.9779 CST -.6840
 LSA 1041.4 MSA 264.0 SSA 26.8
 EL1 1028.3 EL2 219.1 ALF 17.72

LAUNCH DATE MAR 15 1969

FLIGHT TIME 156.00

ARRIVAL DATE AUG 18 1969

HELIOCENTRIC CONIC

DISTANCE 466.352

RL 148.79 LAL .00 LOL 174.24 VL 26.589 GAL -3.51 AZL 87.96 MCA 233.36 SMA 123.23 ECC .21587 INC 2.0408 VI 29.947
 RP 108.12 LAP -1.64 LOP 47.58 VP 37.121 GAP 10.31 AZP 91.22 TAL 192.97 TAP 66.34 RCA 96.63 APO 149.83 V2 35.050
 RC 174.540 GL 13.25 GP -20.82 ZAL 120.64 ZAP 156.43 ETS 302.82 ZAE 129.88 ETE 198.04 ZAC 153.87 ETC 193.76 CLP-168.70

PLANETOCENTRIC CONIC

C3 17.013 VHL 4.125 DLA 31.21 RAL 46.35 RAD 6567.7 VEL 11.764 PTH 2.08 VHP 7.508 DPA -1.19 RAP 62.43 ECC 1.2800
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 76.30 19 6 4 3846.65 -22.53 157.35 273.15 67.82 20 10 11 3246.7 -25.34 149.57
 103.70 22 42 50 3150.33 -22.52 105.92 273.14 67.80 23 35 20 2550.3 -25.33 98.14
 76.30 19 6 4 3846.65 -22.53 157.35 273.15 67.82 20 10 11 3246.7 -25.34 149.57
 103.70 22 42 50 3150.33 -22.52 105.92 273.14 67.80 23 35 20 2550.3 -25.33 98.14
 110.00 1 15 12 2688.29 -31.96 73.98 276.49 77.18 2 0 0 2088.3 -33.40 65.05
 110.00 21 36 48 3356.68 -13.70 116.91 268.44 58.37 22 32 45 2756.7 -17.78 110.17

DIFFERENTIAL CORRECTIONS

TDE .5483 TRA-1.0703 TC3-5.3229 BAU 1.2119
 RDE .2762 RRA .0032 RC3 -.2381 FAU .03570
 FDE .2179 FRA .1759 FC3-1.8167 BSP 15052
 BDE .6139 BRA 1.0703 BC3 5.3282 FSP -423

MID-COURSE EXECUTION ACCURACY

SGT 4783.5 SGR 431.1 SG3 134.4
 RRT .5557 RRF .6145 RTF .8487
 SGB 4802.9 R23 .1687 R13 .8493
 SG1 4789.6 SG2 357.9 THA 2.88

ORBIT DETERMINATION ACCURACY

ST 932.4 SR 383.7 SS 206.2
 CRT .8167 CRS -.9557 CST -.6472
 LSA 997.1 MSA 253.0 SSA 30.9
 EL1 986.3 EL2 209.3 ALF 19.49

LAUNCH DATE MAR 15 1969

FLIGHT TIME 158.00

ARRIVAL DATE AUG 20 1969

HELIOCENTRIC CONIC

DISTANCE 472.022

RL 148.79 LAL .00 LOL 174.24 VL 26.524 GAL -3.05 AZL 88.24 HCA 236.56 SMA 122.83 ECC .21758 INC 1.7598 V1 29.947
 RP 108.08 LAP -1.47 LOP 50.79 VP 37.087 GAP -10.53 AZP 90.97 TAL 191.10 TAP 67.66 RCA 96.11 APO 149.56 V2 35.063
 RC 176.542 GL 11.64 GP -19.76 ZAL 117.86 ZAP 157.68 ETS 302.43 ZAE 130.29 ETE 197.27 ZAC 156.35 ETC 193.26 CLP-169.42

PLANETOCENTRIC CONIC

C3 16.245 VHL 4.031 DLA 30.48 RAL 50.23 RAD 6567.7 VEL 11.732 PTH 2.07 VHP 7.579 OPA .43 RAP 64.43 ECC 1.2674
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 78.23 19 35 23 3792.24 -22.29 153.16 276.08 68.66 20 38 36 3192.2 -24.99 145.36
 101.77 22 44 26 3183.57 -22.28 108.31 276.08 68.65 23 37 29 2583.6 -24.98 100.51
 78.23 19 35 23 3792.24 -22.29 153.16 276.08 68.66 20 38 36 3192.2 -24.99 145.36
 101.77 22 44 26 3183.57 -22.28 108.31 276.08 68.65 23 37 29 2583.6 -24.98 100.51
 110.00 1 42 53 2637.63 -32.67 70.20 279.43 79.32 2 26 50 2037.6 -33.79 61.15
 110.00 21 40 3 3386.18 -12.64 118.53 271.01 57.97 22 36 29 2786.2 -16.78 111.87

DIFFERENTIAL CORRECTIONS

TDE .5221 TRA -.9002 TC3-5.6549 BAU 1.2293
 RDE .2751 RRA .0093 RC3 -.2445 FAU .03440
 FDE .1874 FRA .2259 FC3-1.8330 BSP 15302
 BDE .5901 BRA .9002 BC3 5.6602 FSP -422

MID-COURSE EXECUTION ACCURACY

SGT 4851.3 SGR 438.1 SG3 133.7
 RRT .5485 RRF .5917 RTF .8502
 SGB 4871.0 R23 .1468 R13 .8507
 SG1 4857.3 SG2 365.9 THA 2.85

ORBIT DETERMINATION ACCURACY

ST 876.3 SR 391.1 SS 191.4
 CRT .8432 CRS -.9181 C6T -.6013
 LSA 948.1 MSA 239.5 SSA 36.0
 EL1 939.4 EL2 196.2 ALF 21.61

LAUNCH DATE MAR 15 1969

FLIGHT TIME 160.00

ARRIVAL DATE AUG 22 1969

HELIOCENTRIC CONIC

DISTANCE 477.680

RL 148.79 LAL .00 LOL 174.24 VL 26.459 GAL -2.57 AZL 88.50 HCA 239.77 SMA 122.45 ECC .21953 INC 1.4985 V1 29.947
 RP 108.04 LAP -1.29 LOP 54.00 VP 37.053 GAP 10.76 AZP 90.75 TAL 189.21 TAP 68.98 RCA 95.57 APO 149.33 V2 35.076
 RC 178.523 GL 10.07 GP -18.81 ZAL 114.83 ZAP 158.84 ETS 301.85 ZAE 130.65 ETE 196.57 ZAC 158.83 ETC 192.77 CLP-170.13

PLANETOCENTRIC CONIC

C3 15.618 VHL 3.952 DLA 29.75 RAL 54.25 RAD 6567.6 VEL 11.705 PTH 2.06 VHP 7.663 DPA 1.91 RAP 66.49 ECC 1.2570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 80.48 20 8 22 3729.43 -22.00 148.36 279.29 69.46 21 10 31 3129.4 -24.60 140.54
 99.52 22 43 35 3228.53 -21.99 111.54 279.28 69.44 23 37 23 2628.5 -24.59 103.72
 100.00 23 11 52 3138.12 -23.89 105.56 280.01 71.48 24 4 10 2538.1 -26.20 97.52
 100.00 22 22 46 3295.06 -20.13 115.69 278.49 67.42 23 17 41 2695.1 -23.01 108.09
 110.00 2 9 56 2592.11 -33.19 66.75 282.57 81.30 2 53 8 1992.1 -34.03 57.61
 110.00 21 45 7 3413.84 -11.63 120.05 273.91 57.63 22 42 1 2813.8 -15.82 113.45

DIFFERENTIAL CORRECTIONS

TDE .4919 TRA -.7216 TC3-5.9613 BAU 1.2458
 RDE .2742 RRA .0166 RC3 -.2506 FAU .03304
 FDE .1567 FRA .2739 FC3-1.8317 BSP 15538
 BDE .5632 BRA .7218 BC3 5.9666 FSP -420

MID-COURSE EXECUTION ACCURACY

SGT 4915.4 SGR 445.0 SG3 132.6
 RRT .5410 RRF .5705 RTF .8524
 SGB 4935.6 R23 .1268 R13 .8529
 SG1 4921.4 SG2 373.9 THA 2.82

ORBIT DETERMINATION ACCURACY

ST 812.0 SR 397.7 SS 178.1
 CRT .8713 CRS -.8576 CST -.5431
 LSA 893.1 MSA 222.9 SSA 42.8
 EL1 886.3 EL2 178.8 ALF 24.16

LAUNCH DATE MAR 15 1969

FLIGHT TIME 162.00

ARRIVAL DATE AUG 24 1969

HELIOCENTRIC CONIC

DISTANCE 483.326

RL 148.79 LAL .00 LOL 174.24 VL 26.396 GAL -2.08 AZL 88.75 HCA 242.98 SMA 122.07 ECC .22172 INC 1.2536 V1 29.947
 RP 108.00 LAP -1.12 LOP 57.21 VP 37.020 GAP 10.99 AZP 90.57 TAL 187.33 TAP 70.31 RCA 95.00 APO 149.13 V2 35.089
 RC 180.483 GL 8.53 GP -17.96 ZAL 111.57 ZAP 159.91 ETS 301.11 ZAE 130.98 ETE 195.94 ZAC 161.31 ETC 192.27 CLP-170.85

PLANETOCENTRIC CONIC

C3 15.129 VHL 3.890 DLA 29.00 RAL 58.43 RAD 6567.6 VEL 11.684 PTH 2.05 VHP 7.759 OPA 3.26 RAP 68.62 ECC 1.2490
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 83.46 20 48 27 3647.02 -21.64 142.13 282.76 70.20 21 49 14 3047.0 -24.14 134.29
 96.54 22 36 47 3296.61 -21.63 116.43 282.75 70.19 23 31 44 2696.6 -24.13 108.60
 100.00 0 9 6 3012.87 -26.33 97.06 284.35 75.31 0 59 19 2412.9 -28.09 88.70
 100.00 22 2 45 3406.00 -17.08 122.52 280.77 65.09 22 59 31 2806.0 -20.30 115.21
 110.00 2 36 55 2550.00 -33.58 63.52 285.94 83.17 3 19 25 1950.0 -34.16 54.33
 110.00 21 51 26 3441.63 -10.62 121.56 277.11 57.32 22 48 47 2841.6 -14.85 115.01

DIFFERENTIAL CORRECTIONS

TDE .4588 TRA -.5307 TC3-6.2230 BAU 1.2597
 RDE .2740 RRA .0255 RC3 -.2550 FAU .03158
 FDE .1274 FRA .3225 FC3-1.8070 BSP 15685
 BDE .5344 BRA .3314 BC3 6.2282 FSP -414

MID-COURSE EXECUTION ACCURACY

SGT 4969.0 SGR 451.7 SG3 131.2
 RRT .5323 RRF .5510 RTF .8543
 SGB 4989.5 R23 .1105 R13 .8547
 SG1 4974.9 SG2 382.0 THA 2.79

ORBIT DETERMINATION ACCURACY

ST 741.5 SR 403.8 SS 169.0
 CRT .9023 CRS -.7671 CST -.4775
 LSA 835.2 MSA 202.8 SSA 52.1
 EL1 829.9 EL2 155.6 ALF 27.20

LAUNCH DATE MAR 15 1969

FLIGHT TIME 164.00

ARRIVAL DATE AUG 26 1969

HELIOCENTRIC CONIC

DISTANCE 488.955

RL 148.79 LAL .00 LOL 174.24 VL 26.333 GAL -1.57 AZL 88.98 HCA 246.19 SMA 121.70 ECC .22417 INC 1.0222 V1 29.947
 RP 107.96 LAP -.94 LOP 60.42 VP 36.988 GAP 11.24 AZP 90.41 TAL 185.45 TAP 71.64 RCA 94.42 APO 148.98 V2 35.102
 RC 182.422 GL 7.02 GP -17.20 ZAL 108.10 ZAP 160.90 ETS 300.18 ZAE 131.28 ETE 195.38 ZAC 163.79 ETC 191.76 CLP-171.56

PLANETOCENTRIC CONIC

C3 14.778 VHL 3.844 DLA 28.22 RAL 62.73 RAD 6567.6 VEL 11.669 PTH 2.05 VHP 7.866 OPA 4.50 RAP 70.81 ECC 1.2432
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 22 20 50 3398.32 -22.72 124.28 287.02 72.62 23 17 28 2798.3 -24.88 116.28
 90.00 21 38 45 3534.83 -19.67 133.13 285.89 69.21 22 37 39 2934.8 -22.32 125.46
 100.00 0 48 58 2933.35 -27.58 91.48 288.43 77.99 1 37 51 2333.4 -28.96 82.95
 100.00 21 57 13 3475.03 -15.05 126.65 283.80 63.87 22 55 8 2875.0 -18.45 119.50
 110.00 3 4 9 2510.23 -33.86 60.45 289.53 84.97 3 45 59 1910.2 -34.18 51.22
 110.00 21 58 32 3470.91 -9.54 123.14 280.60 57.02 22 56 23 2870.9 -13.81 116.65

DIFFERENTIAL CORRECTIONS

TDE .4141 TRA -.3350 TC3-6.4493 BAU 1.2752
 RDE .2735 RRA .0352 RC3 -.2596 FAU .03022
 FDE .0956 FRA .3673 FC3-1.7701 BSP 15940
 BDE .4962 BRA .3368 BC3 6.4545 FSP -413

MID-COURSE EXECUTION ACCURACY

SGT 5028.8 SGR 457.8 SG3 129.8
 RRT .5246 RRF .5330 RTF .8580
 SGB 5049.6 R23 .0942 R13 .8584
 SG1 5034.6 SG2 389.3 THA 2.75

ORBIT DETERMINATION ACCURACY

ST 657.2 SR 408.1 SS 161.8
 CRT .9301 CRS -.6343 CST -.3981
 LSA 766.6 MSA 180.5 SSA 65.6
 EL1 762.7 EL2 129.2 ALF 30.99

LAUNCH DATE MAR 15 1969

FLIGHT TIME 166.00

ARRIVAL DATE AUG 28 1969

HELIOCENTRIC CONIC

DISTANCE 494.568

RL 148.79 LAL .00 LOL 174.24 VL 26.272 GAL -1.04 AZL 89.20 HCA 249.40 SMA 121.34 ECC .22689 INC .8017 V1 29.947
 RP 107.92 LAP -.75 LOP 63.64 VP 36.956 GAP 11.50 AZP 90.28 TAL 183.56 TAP 72.97 RCA 93.81 APO 148.87 V2 35.114
 RC 184.340 GL 5.53 GP -16.51 ZAL 104.44 ZAP 161.82 ETS 299.06 ZAE 131.56 ETE 194.87 ZAC 166.26 ETC 191.18 CLP-172.27

PLANETOCENTRIC CONIC

C3 14.570 VHL 3.817 DLA 27.37 RAL 67.14 RAD 6567.6 VEL 11.660 PTH 2.05 VHP 7.985 DPA 5.63 RAP 73.05 ECC 1.2398
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 23 21 28 3254.45 -25.30 114.54 291.88 76.84 24 15 43 2654.5 -26.86 106.22
 90.00 21 13 18 3672.36 -16.13 141.66 288.63 66.40 22 14 31 3072.4 -19.18 134.32
 100.00 1 25 22 2867.74 -28.42 86.78 292.59 80.33 2 13 10 2267.7 -29.47 78.14
 100.00 21 56 2 3534.31 -13.25 130.12 287.22 62.96 22 54 56 2934.3 -16.77 123.10
 110.00 3 31 46 2472.17 -34.04 57.50 293.34 86.71 4 12 58 1872.2 -34.12 48.25
 110.00 22 6 7 3502.64 -8.36 124.84 284.33 56.73 23 4 30 2902.6 -12.68 118.40

DIFFERENTIAL CORRECTIONS

TDE .3615 TRA -.1274 TC3-6.6112 BAU 1.2888
 RDE .2735 RRA .0462 RC3 -.2619 FAU .02880
 FDE .0643 FRA .4125 FC3-1.7112 BSP 16118
 BDE .4533 BRA .1355 BC3 6.6164 FSP -408

MID-COURSE EXECUTION ACCURACY

SGT 5080.7 SGR 463.2 SG3 128.2
 RRT .5162 RRF .5168 RTF .8616
 SGB 5101.7 R23 .0809 R13 .8619
 SG1 5086.3 SG2 396.3 THA 2.71

ORBIT DETERMINATION ACCURACY

ST 567.1 SR 411.2 SS 161.2
 CRT .9527 CRS -.4657 CST -.3380
 LSA 695.9 MSA 159.2 SSA 83.9
 EL1 693.0 EL2 102.3 ALF 35.53

LAUNCH DATE MAR 15 1969

FLIGHT TIME 168.00

ARRIVAL DATE AUG 30 1969

HELIOCENTRIC CONIC

DISTANCE 500.162

RL 148.79 LAL .00 LOL 174.24 VL 26.212 GAL -.50 AZL 89.41 HCA 252.62 SMA 120.99 ECC .22990 INC .5903 V1 29.947
 RP 107.88 LAP -.56 LOP 66.85 VP 36.925 GAP 11.77 AZP 90.18 TAL 181.68 TAP 74.30 RCA 93.17 APO 148.81 V2 35.126
 RC 186.236 GL 4.07 GP -15.89 ZAL 100.63 ZAP 162.67 ETS 297.75 ZAE 131.81 ETE 194.40 ZAC 168.74 ETC 190.49 CLP-172.98

PLANETOCENTRIC CONIC

C3 14.509 VHL 3.809 DLA 26.47 RAL 71.63 RAD 6567.6 VEL 11.657 PTH 2.05 VHP 8.115 DPA 6.66 RAP 75.33 ECC 1.2388
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 8 55 3168.44 -26.50 108.52 296.42 79.63 1 1 44 2568.4 -27.66 100.05
 90.00 21 5 38 3756.52 -13.77 146.72 292.11 65.01 22 8 14 3156.5 -17.02 139.55
 100.00 2 0 13 2809.63 -29.01 82.57 296.87 82.47 2 47 3 2209.6 -29.75 73.84
 100.00 21 57 1 3590.56 -11.48 133.37 290.95 62.21 22 56 51 2990.6 -15.11 126.46
 110.00 3 59 47 2435.53 -34.15 54.64 297.35 88.39 4 40 23 1835.5 -34.00 45.40
 110.00 22 13 57 3537.43 -7.05 126.68 288.29 56.47 23 12 54 2937.4 -11.41 120.31

DIFFERENTIAL CORRECTIONS

TDE .2971 TRA .0903 TC3-6.7044 BAU 1.3015
 RDE .2735 RRA .0584 RC3 -.2616 FAU .02736
 FDE .0317 FRA .4572 FC3-1.6328 BSP 16322
 BDE .4039 BRA .1075 BC3 6.7095 FSP -405

MID-COURSE EXECUTION ACCURACY

SGT 5129.3 SGR 467.6 SG3 126.4
 RRT .5072 RRF .5013 RTF .8651
 SGB 5150.5 R23 .0693 R13 .8654
 SG1 5134.8 SG2 402.5 THA 2.66

ORBIT DETERMINATION ACCURACY

ST 474.7 SR 412.6 SS 167.1
 CRT .9506 CRS -.2711 CST -.3320
 LSA 623.5 MSA 160.1 SSA 94.8
 EL1 621.2 EL2 97.8 ALF 40.79

LAUNCH DATE MAR 15 1969

FLIGHT TIME 170.00

ARRIVAL DATE SEP 1 1969

HELIOCENTRIC CONIC

DISTANCE 505.732

RL 148.79 LAL .00 LOL 174.24 VL 26.152 GAL .06 AZL 89.61 HCA 255.84 SMA 120.65 ECC .23323 INC .3858 V1 29.947
 RP 107.85 LAP -.37 LOP 70.07 VP 36.894 GAP 12.06 AZP 90.09 TAL 179.80 TAP 75.64 RCA 92.51 APO 148.79 V2 35.138
 RC 188.109 GL 2.64 GP -15.33 ZAL 96.70 ZAP 163.45 ETS 296.24 ZAE 132.05 ETE 193.98 ZAC 171.21 ETC 189.56 CLP-173.68

PLANETOCENTRIC CONIC

C3 14.605 VHL 3.822 DLA 25.49 RAL 76.17 RAD 6567.6 VEL 11.661 PTH 2.05 VHP 8.256 DPA 7.60 RAP 77.66 ECC 1.2404
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 0 48 8 3098.55 -27.26 103.55 300.98 82.01 1 39 46 2498.6 -28.08 94.98
 90.00 21 2 36 3829.35 -11.63 151.00 295.94 64.00 22 6 25 3229.4 -15.03 143.98
 100.00 2 34 11 2756.65 -29.42 78.68 301.27 84.48 3 20 8 2156.6 -29.88 69.91
 100.00 21 59 14 3646.49 -9.69 136.55 294.92 61.58 23 0 1 3046.5 -13.41 129.74
 110.00 4 28 5 2400.26 -34.18 51.89 301.54 90.02 5 8 6 1800.3 -33.80 42.66
 110.00 22 21 49 3575.64 -5.61 128.70 292.44 56.22 23 21 25 2975.6 -10.01 122.38

DIFFERENTIAL CORRECTIONS

TDE .2246 TRA .3172 TC3-6.6974 BAU 1.3087
 RDE .2746 RRA .0709 RC3 -.2552 FAU .02565
 FDE .0023 FRA .4982 FC3-1.5201 BSP 16434
 BDE .3548 BRA .3250 BC3 6.7022 FSP -390

MID-COURSE EXECUTION ACCURACY

SGT 5157.1 SGR 470.6 SG3 123.2
 RRT .4941 RRF .4849 RTF .8679
 SGB 5178.5 R23 .0613 R13 .8682
 SG1 5162.4 SG2 408.7 THA 2.60

ORBIT DETERMINATION ACCURACY

ST 402.4 SR 413.3 SS 178.8
 CRT .8725 CRS -.1001 CST -.4533
 LSA 560.6 MSA 209.3 SSA 81.1
 EL1 558.1 EL2 145.6 ALF 45.88

LAUNCH DATE MAR 15 1969

FLIGHT TIME 172.00

ARRIVAL DATE SEP 3 1969

HELIOCENTRIC CONIC

DISTANCE 511.279

RL 148.79 LAL .00 LOL 174.24 VL 26.094 GAL .64 AZL 89.81 HCA 259.06 SMA 120.31 ECC .23690 INC .1869 V1 29.947
 RP 107.81 LAP -.18 LOP 73.29 VP 36.863 GAP 12.36 AZP 90.04 TAL 177.93 TAP 76.99 RCA 91.81 APO 148.82 V2 35.150
 RC 189.959 GL 1.27 GP -14.82 ZAL 92.69 ZAP 164.18 ETS 294.53 ZAE 132.27 ETE 193.59 ZAC 173.69 ETC 188.08 CLP-174.39

PLANETOCENTRIC CONIC

C3 14.871 VHL 3.856 DLA 24.44 RAL 80.71 RAD 6567.6 VEL 11.673 PTH 2.05 VHP 8.411 DPA 8.45 RAP 80.02 ECC 1.2447
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 1 25 6 3037.80 -27.76 99.17 305.62 84.15 2 15 44 2437.8 -28.28 90.54
 90.00 21 1 53 3898.12 -9.55 154.98 300.02 63.22 22 6 51 3298.1 -13.07 148.07
 100.00 3 7 26 2707.83 -29.69 75.08 305.80 86.36 3 52 34 2107.8 -29.88 66.28
 100.00 22 2 13 3703.32 -7.83 139.75 299.10 61.06 23 3 57 3103.3 -11.63 133.02
 110.00 4 56 31 2366.56 -34.15 49.25 305.90 91.58 5 35 58 1766.6 -33.55 40.06
 110.00 22 29 38 3617.36 -4.03 130.90 296.76 56.03 23 29 55 3017.4 -8.46 124.61

DIFFERENTIAL CORRECTIONS

TDE .1348 TRA .5598 TC3-6.6457 BAU 1.3221
 RDE .2749 RRA .0855 RC3 -.2523 FAU .02452
 FDE -.0339 FRA .5452 FC3-1.4273 BSP 16581
 BDE .3062 BRA .5663 BC3 6.6504 FSP -391

MID-COURSE EXECUTION ACCURACY

SGT 5210.1 SGR 473.4 SG3 122.4
 RRT .4891 RRF .4739 RTF .8734
 SGB 5231.6 R23 .0504 R13 .8736
 SG1 5215.3 SG2 412.5 THA 2.56

ORBIT DETERMINATION ACCURACY

ST 372.7 SR 410.6 SS 198.8
 CRT .6154 CRS .0822 CST -.6681
 LSA 502.7 MSA 300.5 SSA 63.9
 EL1 499.1 EL2 241.7 ALF 49.49

LAUNCH DATE MAR 15 1969

FLIGHT TIME 174.00

ARRIVAL DATE SEP 5 1969

HELIOCENTRIC CONIC

DISTANCE 516.797

RL 148.79 LAL .00 LOL 174.24 VL 26.036 GAL 1.25 AZL 90.01 MCA 262.28 SMA 119.99 ECC .24094 INC .0000 V1 29.947
 RP 107.78 LAP .01 LOP 76.52 VP 36.833 GAP 12.68 AZP 90.00 TAL 176.06 TAP 78.34 RCA 91.08 APO 148.90 V2 35.161
 RC 191.786 GL -.05 GP -14.36 ZAL 88.63 ZAP 164.84 ETS 292.60 ZAE 132.48 ETE 193.24 ZAC 176.15 ETC 184.96 CLP-175.09

PLANETOCENTRIC CONIC

C3 15.319 VHL 3.914 DLA 23.32 RAL 85.21 RAD 6567.6 VEL 11.692 PTH 2.06 VHP 8.578 DPA 9.21 RAP 82.42 ECC 1.2521
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 0 26 2983.69 -28.07 95.24 310.32 86.10 2 50 10 2383.7 -28.31 86.59
 90.00 21 2 27 3965.55 -7.46 158.83 304.30 62.60 22 8 33 3365.6 -11.07 152.01
 100.00 3 39 56 2662.85 -29.84 71.74 310.43 88.11 4 24 19 2062.9 -29.78 62.94
 100.00 22 5 38 3761.62 -5.90 143.00 303.45 60.64 23 8 20 3161.6 -9.77 136.34
 110.00 5 24 49 2334.72 -34.06 46.77 310.38 93.05 6 3 44 1734.7 -33.27 37.62
 110.00 22 37 14 3662.52 -2.30 133.26 301.22 55.89 23 38 17 3062.5 -6.77 127.01

DIFFERENTIAL CORRECTIONS

TDE .0318 TRA .8090 TC3-6.5003 BAU 1.3322
 RDE .2760 RRA .1000 RC3 -.2438 FAU .02320
 FDE -.0688 FRA .5872 FC3-1.3110 BSP 16778
 BDE .2778 BRA .8151 BC3 6.5049 FSP -390

MID-COURSE EXECUTION ACCURACY

SGT 5249.5 SGR 474.4 SG3 120.3
 RRT .4800 RRF .4607 RTF .8788
 SGB 5270.9 R23 .0412 R13 .8789
 SG1 5254.5 SG2 415.8 THA 2.50

ORBIT DETERMINATION ACCURACY

ST 418.5 SR 406.9 SS 222.3
 CRT .2244 CRS .2221 CST -.8655
 LSA 475.7 MSA 401.6 SSA 50.5
 EL1 457.0 EL2 363.1 ALF 41.42

LAUNCH DATE MAR 15 1969

FLIGHT TIME 176.00

ARRIVAL DATE SEP 7 1969

HELIOCENTRIC CONIC

DISTANCE 522.282

RL 148.79 LAL .00 LOL 174.24 VL 25.980 GAL 1.88 AZL 90.20 MCA 265.51 SMA 119.67 ECC .24536 INC .1986 V1 29.947
 RP 107.75 LAP .20 LOP 79.74 VP 36.804 GAP 13.02 AZP 89.98 TAL 174.20 TAP 79.71 RCA 90.31 APO 149.03 V2 35.172
 RC 193.588 GL -1.29 GP -13.94 ZAL 84.57 ZAP 165.45 ETS 290.45 ZAE 132.68 ETE 192.91 ZAC 178.57 ETC 171.61 CLP-175.79

PLANETOCENTRIC CONIC

C3 15.969 VHL 3.996 DLA 22.15 RAL 89.64 RAD 6567.6 VEL 11.720 PTH 2.06 VHP 8.760 DPA 9.88 RAP 84.84 ECC 1.2628
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 2 34 20 2935.27 -28.24 91.71 315.09 87.86 3 23 15 2335.3 -28.24 83.05
 90.00 21 3 51 4032.76 -5.34 162.63 308.73 62.15 22 11 4 3432.8 -9.02 155.89
 100.00 4 11 34 2621.74 -29.89 68.69 315.13 89.71 4 55 16 2021.7 -29.61 59.89
 100.00 22 9 18 3821.52 -3.89 146.31 307.93 60.34 23 13 0 3221.5 -7.81 139.71
 110.00 5 52 46 2305.16 -33.93 44.47 314.96 94.40 6 31 11 1705.2 -32.95 35.37
 110.00 22 44 36 3710.87 -4.46 135.78 305.79 55.82 23 46 27 3110.9 -4.94 129.56

DIFFERENTIAL CORRECTIONS

TDE -.0794 TRA 1.0746 TC3-6.2637 BAU 1.3382
 RDE .2781 RRA .1155 RC3 -.2311 FAU .02178
 FDE -.1016 FRA .6315 FC3-1.1808 BSP 16840
 BDE .2892 BRA 1.0808 BC3 6.2680 FSP -382

MID-COURSE EXECUTION ACCURACY

SGT 5276.6 SGR 474.4 SG3 118.1
 RRT .4700 RRF .4488 RTF .8830
 SGB 5297.9 R23 .0353 R13 .8831
 SG1 5281.3 SG2 418.4 THA 2.44

ORBIT DETERMINATION ACCURACY

ST 533.5 SR 402.4 SS 248.8
 CRT -.0828 CRS .3193 CST -.9535
 LSA 588.6 MSA 400.3 SSA 40.8
 EL1 535.8 EL2 399.3 ALF 171.92

LAUNCH DATE MAR 15 1969

FLIGHT TIME 178.00

ARRIVAL DATE SEP 9 1969

HELIOCENTRIC CONIC

DISTANCE 527.728

RL 148.79 LAL .00 LOL 174.24 VL 25.925 GAL 2.53 AZL 90.39 MCA 268.73 SMA 119.36 ECC .25022 INC .3889 V1 29.947
 RP 107.71 LAP .39 LOP 82.97 VP 36.774 GAP 13.39 AZP 89.99 TAL 172.36 TAP 81.09 RCA 89.49 APO 149.23 V2 35.182
 RC 195.366 GL -2.46 GP -13.55 ZAL 80.56 ZAP 166.01 ETS 288.07 ZAE 132.86 ETE 192.61 ZAC 178.75 ETC 35.97 CLP-176.50

PLANETOCENTRIC CONIC

C3 16.842 VHL 4.104 DLA 20.94 RAL 93.94 RAD 6567.7 VEL 11.757 PTH 2.08 VHP 8.956 DPA 10.48 RAP 87.30 ECC 1.2772
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 6 47 2892.17 -28.31 88.56 319.89 89.44 3 54 59 2292.2 -28.09 79.90
 90.00 21 5 45 4100.18 -3.18 166.41 313.27 61.85 22 14 5 3500.2 -6.92 159.73
 100.00 4 42 8 2584.68 -29.87 65.93 319.88 91.16 5 25 13 1984.7 -29.39 57.16
 100.00 22 13 5 3882.91 -1.81 149.68 312.51 60.16 23 17 48 3282.9 -5.77 143.13
 110.00 6 20 4 2278.33 -33.77 42.39 319.61 95.62 6 58 2 1678.3 -32.63 33.35
 110.00 22 51 39 3762.03 1.50 138.45 310.44 55.85 23 54 21 3162.0 -2.99 132.24

DIFFERENTIAL CORRECTIONS

TDE -.2076 TRA 1.3494 TC3-5.9682 BAU 1.3447
 RDE .2806 RRA .1312 RC3 -.2164 FAU .02046
 FDE -.1368 FRA .6748 FC3-1.0518 BSP 16987
 BDE .3490 BRA 1.3558 BC3 5.9721 FSP -378

MID-COURSE EXECUTION ACCURACY

SGT 5305.8 SGR 472.8 SG3 115.9
 RRT .4594 RRF .4359 RTF .8879
 SGB 5326.6 R23 .0286 R13 .8880
 SG1 5310.1 SG2 419.6 THA 2.36

ORBIT DETERMINATION ACCURACY

ST 686.9 SR 396.2 SS 277.6
 CRT -.2834 CRS .4000 CST -.9832
 LSA 752.0 MSA 372.9 SSA 34.1
 EL1 699.7 EL2 372.9 ALF 166.95

LAUNCH DATE MAR 15 1969

FLIGHT TIME 180.00

ARRIVAL DATE SEP 11 1969

HELIOCENTRIC CONIC

DISTANCE 533.131

RL 148.79 LAL .00 LOL 174.24 VL 25.870 GAL 3.22 AZL 90.58 MCA 271.96 SMA 119.06 ECC .25555 INC .5787 V1 29.947
 RP 107.68 LAP .58 LOP 86.20 VP 36.745 GAP 13.77 AZP 90.02 TAL 170.52 TAP 82.48 RCA 88.63 APO 149.49 V2 35.192
 RC 197.118 GL -3.53 GP -13.20 ZAL 76.63 ZAP 166.51 ETS 285.47 ZAE 133.03 ETE 192.34 ZAC 176.34 ETC 20.02 CLP-177.20

PLANETOCENTRIC CONIC

C3 17.965 VHL 4.239 DLA 19.70 RAL 98.10 RAD 6567.7 VEL 11.805 PTH 2.09 VHP 9.170 DPA 11.00 RAP 89.77 ECC 1.2957
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 3 37 43 2854.32 -28.31 85.79 324.72 90.82 4 25 17 2254.3 -27.89 77.15
 90.00 21 7 59 4167.91 -1.00 170.19 317.89 61.70 22 17 27 3567.9 -4.77 163.55
 100.00 5 11 30 2551.91 -29.80 63.50 324.67 92.44 5 54 2 1951.9 -29.14 54.76
 100.00 22 16 53 3945.56 -.31 153.12 317.16 60.11 23 22 39 3345.6 -3.67 146.59
 110.00 6 46 30 2254.66 -33.60 40.57 324.31 96.69 7 24 5 1654.7 -32.31 31.57
 110.00 22 58 22 3815.57 3.54 141.25 315.15 55.98 24 1 57 3215.6 -.95 135.04

DIFFERENTIAL CORRECTIONS

TDE -.3465 TRA 1.6385 TC3-5.6137 BAU 1.3491
 RDE .2840 RRA .1473 RC3 -.1996 FAU .01916
 FDE -.1713 FRA .7187 FC3 -.9235 BSP 17099
 BDE .4481 BRA 1.6451 BC3 5.6172 FSP -372

MID-COURSE EXECUTION ACCURACY

SGT 5329.1 SGR 469.8 SG3 113.7
 RRT .4484 RRF .4235 RTF .8930
 SGB 5349.8 R23 .0230 R13 .8930
 SG1 5333.3 SG2 419.6 THA 2.28

ORBIT DETERMINATION ACCURACY

ST 859.0 SR 389.2 SS 306.8
 CRT -.4018 CRS .4586 CST -.9928
 LSA 927.6 MSA 349.6 SSA 29.1
 EL1 875.9 EL2 349.5 ALF 167.69

LAUNCH DATE MAR 15 1969

FLIGHT TIME 182.00

ARRIVAL DATE SEP 13 1969

HELIOCENTRIC CONIC

DISTANCE 538.485

RL 148.79 LAL .00 LOL 174.24 VL 25.817 GAL 3.94 AZL 90.77 MCA 275.19 SMA 118.76 ECC .26139 INC .7693 V1 29.947
 RP 107.66 LAP .77 LOP 89.43 VP 36.716 GAP 14.19 AZP 90.07 TAL 168.70 TAP 83.89 RCA 87.72 APO 149.81 V2 35.201
 RC 198.846 GL -4.51 GP -12.88 ZAL 72.81 ZAP 166.95 ETS 282.63 ZAE 133.18 ETE 192.08 ZAC 173.88 ETC 16.70 CLP-177.91

PLANETOCENTRIC CONIC

C3 19.368 VHL 4.401 OLA 18.46 RAL 102.08 RAD 6567.8 VEL 11.864 PTH 2.10 VHP 9.402 OPA 11.45 RAP 92.26 ECC 1.3188
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 7 3 2821.73 -28.25 83.41 329.55 92.02 4 54 4 2221.7 -27.67 74.79
 90.00 21 10 24 4235.83 1.20 173.98 322.57 61.71 22 21 0 3635.8 -2.60 167.35
 100.00 5 39 29 2523.66 -29.70 61.40 329.47 93.54 6 21 32 1923.7 -28.89 52.69
 100.00 22 20 40 4009.14 2.46 156.61 321.86 60.20 23 27 29 3409.1 -1.52 150.09
 110.00 7 11 53 2234.53 -33.43 39.02 329.05 97.59 7 49 8 1634.5 -32.02 30.07
 110.00 23 4 44 3871.03 5.65 144.16 319.89 56.23 24 9 15 3271.0 1.17 137.93

DIFFERENTIAL CORRECTIONS

TDE -.4937 TRA 1.9451 TC3-5.2108 BAU 1.3501
 ROE .2886 RRA .1637 RC3 -.1809 FAU .01786
 FDE -.2046 FRA .7648 FC3 -.7982 BSP 17126
 BOE .5719 BRA 1.9520 BC3 5.2139 FSP -365

MID-COURSE EXECUTION ACCURACY

SGT 5345.6 SGR 465.8 SG3 111.5
 RRT .4371 RRF .4117 RTF .8978
 SGB 5365.8 R23 .0188 R13 .8979
 SG1 5349.5 SG2 418.7 THA 2.19

ORBIT DETERMINATION ACCURACY

ST 1036.1 SR 381.8 SS 335.5
 CRT -.4725 CRS .4996 CST -.9963
 LSA 1105.3 MSA 331.0 SSA 25.4
 EL1 1053.4 EL2 330.9 ALF 169.03

LAUNCH DATE MAR 15 1969

FLIGHT TIME 184.00

ARRIVAL DATE SEP 15 1969

HELIOCENTRIC CONIC

DISTANCE 543.779

RL 148.79 LAL .00 LOL 174.24 VL 25.764 GAL 4.70 AZL 90.96 MCA 278.43 SMA 118.48 ECC .26780 INC .9620 V1 29.947
 RP 107.63 LAP .95 LOP 92.66 VP 36.688 GAP 14.64 AZP 90.14 TAL 166.89 TAP 85.32 RCA 86.75 APO 150.21 V2 35.209
 RC 200.549 GL -5.39 GP -12.59 ZAL 69.13 ZAP 167.33 ETS 279.56 ZAE 133.33 ETE 191.84 ZAC 171.42 ETC 15.24 CLP-178.63

PLANETOCENTRIC CONIC

C3 21.090 VHL 4.592 OLA 17.22 RAL 105.87 RAD 6567.9 VEL 11.936 PTH 2.12 VHP 9.654 OPA 11.82 RAP 94.76 ECC 1.3471
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 4 34 43 2794.42 -28.17 81.42 334.38 93.01 5 21 17 2194.4 -27.45 72.82
 90.00 21 12 57 4303.76 3.38 177.77 327.28 61.87 22 24 40 3703.8 -.41 171.14
 100.00 6 5 59 2500.10 -29.59 59.66 334.28 94.45 6 47 39 1900.1 -28.66 50.98
 100.00 22 24 22 4073.32 4.63 160.14 326.60 60.44 23 32 15 3473.3 .66 153.61
 110.00 7 36 4 2218.23 -33.28 37.77 333.79 98.32 8 13 2 1618.2 -31.77 28.87
 110.00 23 10 46 3927.95 7.79 147.17 324.65 56.61 24 16 14 3327.9 3.35 140.91

DIFFERENTIAL CORRECTIONS

TDE -.6557 TRA 2.2624 TC3-4.7887 BAU 1.3510
 ROE .2940 RRA .1798 RC3 -.1618 FAU .01664
 FDE -.2391 FRA .8104 FC3 -.6832 BSP 17247
 BOE .7186 BRA 2.2695 BC3 4.7915 FSP -360

MID-COURSE EXECUTION ACCURACY

SGT 5361.6 SGR 460.2 SG3 109.4
 RRT .4245 RRF .3987 RTF .9033
 SGB 5381.4 R23 .0144 R13 .9033
 SG1 5365.2 SG2 416.4 THA 2.10

ORBIT DETERMINATION ACCURACY

ST 1213.5 SR 373.6 SS 363.8
 CRT -.5230 CRS .5339 CST -.9978
 LSA 1282.7 MSA 314.2 SSA 22.6
 EL1 1230.2 EL2 314.1 ALF 170.21

LAUNCH DATE MAR 15 1969

FLIGHT TIME 186.00

ARRIVAL DATE SEP 17 1969

HELIOCENTRIC CONIC

DISTANCE 549.006

RL 148.79 LAL .00 LOL 174.24 VL 25.712 GAL 5.49 AZL 91.16 MCA 281.66 SMA 118.20 ECC .27483 INC 1.1580 V1 29.947
 RP 107.60 LAP 1.13 LOP 95.90 VP 36.659 GAP 15.12 AZP 90.23 TAL 165.11 TAP 86.77 RCA 85.71 APO 150.68 V2 35.217
 RC 202.227 GL -6.17 GP -12.33 ZAL 65.61 ZAP 167.66 ETS 276.27 ZAE 133.45 ETE 191.61 ZAC 168.96 ETC 14.40 CLP-179.35

PLANETOCENTRIC CONIC

C3 23.176 VHL 4.814 OLA 16.02 RAL 109.44 RAD 6567.9 VEL 12.023 PTH 2.15 VHP 9.929 OPA 12.12 RAP 97.26 ECC 1.3814
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 0 40 2772.38 -28.08 79.81 339.19 93.81 5 46 53 2172.4 -27.26 71.24
 90.00 21 15 32 4371.47 5.55 181.57 332.02 62.19 22 28 23 -3771.5 1.78 174.92
 100.00 6 30 55 2481.33 -29.48 58.28 339.06 95.17 7 12 17 1881.3 -28.45 49.62
 100.00 22 27 58 4137.76 6.78 163.72 331.34 60.82 23 36 56 3537.8 2.84 157.15
 110.00 7 58 56 2205.95 -33.15 36.84 338.54 98.86 8 35 42 1606.0 -31.57 27.96
 110.00 23 16 27 3985.90 9.95 150.27 329.42 57.13 24 22 52 3385.9 5.55 143.95

DIFFERENTIAL CORRECTIONS

TDE -.8275 TRA 2.5971 TC3-4.3516 BAU 1.3490
 ROE .3007 RRA .1956 RC3 -.1423 FAU .01545
 FDE -.2731 FRA .8579 FC3 -.5772 BSP 17341
 BOE .8804 BRA 2.6044 BC3 4.3539 FSP -355

MID-COURSE EXECUTION ACCURACY

SGT 5372.7 SGR 453.3 SG3 107.3
 RRT .4108 RRF .3855 RTF .9087
 SGB 5391.8 R23 .0109 R13 .9088
 SG1 5375.9 SG2 413.0 THA 2.00

ORBIT DETERMINATION ACCURACY

ST 1384.3 SR 365.2 SS 390.8
 CRT -.5575 CRS .5597 CST -.9985
 LSA 1453.3 MSA 300.0 SSA 20.4
 EL1 1400.0 EL2 299.8 ALF 171.23

LAUNCH DATE MAR 15 1969

FLIGHT TIME 188.00

ARRIVAL DATE SEP 19 1969

HELIOCENTRIC CONIC

DISTANCE 554.154

RL 148.79 LAL .00 LOL 174.24 VL 25.662 GAL 6.33 AZL 91.36 MCA 284.90 SMA 117.92 ECC .28255 INC 1.3587 V1 29.947
 RP 107.58 LAP 1.31 LOP 99.14 VP 36.631 GAP 15.64 AZP 90.35 TAL 163.35 TAP 88.25 RCA 84.61 APO 151.24 V2 35.225
 RC 203.880 GL -6.85 GP -12.08 ZAL 62.28 ZAP 167.92 ETS 272.77 ZAE 133.56 ETE 191.40 ZAC 166.50 ETC 13.84 CLP 179.91

PLANETOCENTRIC CONIC

C3 25.682 VHL 5.068 OLA 14.85 RAL 112.81 RAD 6568.0 VEL 12.127 PTH 2.17 VHP 10.229 OPA 12.36 RAP 99.77 ECC 1.4227
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 24 55 2755.51 -28.00 78.58 343.97 94.42 6 10 50 2155.5 -27.09 70.04
 90.00 21 18 8 4438.74 7.67 185.38 336.75 62.66 22 32 6 3838.7 3.94 178.68
 100.00 6 54 17 2467.33 -29.39 57.25 343.83 95.71 7 35 24 1867.3 -28.29 48.62
 100.00 22 31 27 4202.16 8.90 167.32 336.09 61.35 23 41 29 3602.2 5.01 160.70
 110.00 8 20 25 2197.78 -33.06 36.21 343.27 99.22 8 57 3 1597.8 -31.44 27.37
 110.00 23 21 48 4044.48 12.10 153.45 334.18 57.78 24 29 12 3444.5 7.76 147.05

DIFFERENTIAL CORRECTIONS

TDE -1.0086 TRA 2.9498 TC3-3.9125 BAU 1.3440
 ROE .3086 RRA .2108 RC3 -.1232 FAU .01428
 FDE -.3068 FRA .9073 FC3 -.4815 BSP 17409
 BOE 1.0547 BRA 2.9573 BC3 3.9144 FSP -350

MID-COURSE EXECUTION ACCURACY

SGT 5378.7 SGR 445.1 SG3 105.3
 RRT .3960 RRF .3717 RTF .9143
 SGB 5397.1 R23 .0082 R13 .9144
 SG1 5381.6 SG2 408.5 THA 1.89

ORBIT DETERMINATION ACCURACY

ST 1544.6 SR 356.7 SS 416.3
 CRT -.5824 CRS .5798 CST -.9989
 LSA 1613.5 MSA 287.5 SSA 18.6
 EL1 1559.0 EL2 287.3 ALF 172.07

LAUNCH DATE MAR 15 1969

FLIGHT TIME 190.00

ARRIVAL DATE SEP 21 1969

HELIOCENTRIC CONIC

DISTANCE 559.210

RL 148.79 LAL .00 LOL 174.24 VL 25.612 GAL 7.22 AZL 91.57 HCA 288.13 SMA 117.66 ECC .29104 INC 1.5657 V1 29.947
 RP 107.56 LAP 1.49 LOP 102.37 VP 36.603 GAP 16.21 AZP 90.49 TAL 161.63 TAP 89.76 RCA 83.42 APO 151.90 V2 35.232
 RC 205.508 GL -7.45 GP -11.86 ZAL 59.14 ZAP 168.11 ETS 269.07 ZAE 133.66 ETE 191.20 ZAC 164.06 ETC 13.44 CLP 179.17

PLANETOCENTRIC CONIC

C3 28.673 VHL 5.355 DLA 13.73 RAL 115.96 RAD 6568.2 VEL 12.249 PTH 2.20 VHP 10.557 DPA 12.53 RAP 102.28 ECC 1.4719
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 5 47 28 2743.68 -27.93 77.72 348.71 94.85 6 33 11 2143.7 -26.97 69.19
 90.00 21 20 42 4505.35 9.73 189.19 341.48 63.28 22 35 48 3905.3 6.06 182.42
 100.00 7 16 2 2458.02 -29.33 56.56 348.56 96.06 7 57 0 1858.0 -28.18 47.95
 100.00 22 34 49 4266.24 10.97 170.95 340.83 62.02 23 45 55 3666.2 7.15 164.26
 110.00 8 40 31 2193.69 -33.02 35.90 347.98 99.39 9 17 5 1593.7 -31.37 27.07
 110.00 23 26 50 4103.33 14.21 156.70 338.94 58.58 24 35 13 3503.3 9.95 150.20

DIFFERENTIAL CORRECTIONS

TDE-1.1969 TRA 3.3258 TC3-3.4586 BAU 1.3264
 RDE .3181 RRA .2254 RC3 -.1047 FAU .01309
 FDE -.3391 FRA .9601 FC3 -.3951 BSP 17437
 BDE 1.2385 BRA 3.3334 BC3 3.4602 FSP -342

MID-COURSE EXECUTION ACCURACY

SGT 5364.6 SGR 436.0 SG3 103.3
 RRT .3801 RRF .3579 RTF .9209
 SGB 5382.3 R23 .0063 R13 .9209
 SG1 5367.2 SG2 403.0 THA 1.78

ORBIT DETERMINATION ACCURACY

ST 1691.3 SR 348.4 SS 439.8
 CRT -.6001 CRS .5942 CST -.9992
 LSA 1760.2 MSA 276.8 SSA 17.0
 EL1 1704.5 EL2 276.5 ALF 172.76

LAUNCH DATE MAR 15 1969

FLIGHT TIME 192.00

ARRIVAL DATE SEP 23 1969

HELIOCENTRIC CONIC

DISTANCE 564.155

RL 148.79 LAL .00 LOL 174.24 VL 25.564 GAL 8.17 AZL 91.78 HCA 291.37 SMA 117.40 ECC .30039 INC 1.7806 V1 29.947
 RP 107.54 LAP 1.66 LOP 105.61 VP 36.575 GAP 16.82 AZP 90.65 TAL 159.94 TAP 91.31 RCA 82.13 APO 152.66 V2 35.238
 RC 207.111 GL -7.96 GP -11.65 ZAL 56.19 ZAP 168.24 ETS 265.20 ZAE 133.73 ETE 191.00 ZAC 161.63 ETC 13.14 CLP 178.40

PLANETOCENTRIC CONIC

C3 32.233 VHL 5.677 DLA 12.68 RAL 118.89 RAD 6568.3 VEL 12.394 PTH 2.24 VHP 10.917 DPA 12.63 RAP 104.77 ECC 1.5305
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 8 21 2736.67 -27.89 77.22 353.41 95.10 6 53 57 2136.7 -26.89 68.69
 90.00 21 23 14 4571.08 11.72 192.99 346.20 64.04 22 39 25 3971.1 8.13 186.15
 100.00 7 36 13 2453.25 -29.29 56.21 353.25 96.24 8 17 7 1853.3 -28.12 47.60
 100.00 22 38 3 4329.73 12.97 174.60 345.56 62.83 23 50 12 3729.7 9.23 167.82
 110.00 8 59 12 2193.60 -33.02 35.90 352.65 99.40 9 35 46 1593.6 -31.37 27.06
 110.00 23 31 33 4162.15 16.27 160.02 343.68 59.51 24 40 55 3562.1 12.10 153.39

DIFFERENTIAL CORRECTIONS

TDE-1.3961 TRA 3.7185 TC3-3.0662 BAU 1.3219
 RDE .3287 RRA .2387 RC3 -.0874 FAU .01198
 FDE -.3730 FRA 1.0142 FC3 -.3217 BSP 17467
 BDE 1.4342 BRA 3.7261 BC3 3.0675 FSP -337

MID-COURSE EXECUTION ACCURACY

SGT 5376.0 SGR 425.2 SG3 101.3
 RRT .3621 RRF .3417 RTF .9258
 SGB 5392.8 R23 .0050 R13 .9258
 SG1 5378.2 SG2 396.2 THA 1.65

ORBIT DETERMINATION ACCURACY

ST 1824.1 SR 339.9 SS 462.9
 CRT -.6154 CRS .6085 CST -.9993
 LSA 1893.7 MSA 266.3 SSA 15.9
 EL1 1836.3 EL2 266.1 ALF 173.32

LAUNCH DATE MAR 15 1969

FLIGHT TIME 194.00

ARRIVAL DATE SEP 25 1969

HELIOCENTRIC CONIC

DISTANCE 568.971

RL 148.79 LAL .00 LOL 174.24 VL 25.516 GAL 9.18 AZL 92.01 HCA 294.61 SMA 117.15 ECC .31070 INC 2.0052 V1 29.947
 RP 107.53 LAP 1.82 LOP 108.86 VP 36.547 GAP 17.50 AZP 90.84 TAL 158.29 TAP 92.89 RCA 80.75 APO 153.55 V2 35.243
 RC 208.690 GL -8.39 GP -11.46 ZAL 53.44 ZAP 168.29 ETS 261.18 ZAE 133.77 ETE 190.81 ZAC 159.23 ETC 12.90 CLP 177.62

PLANETOCENTRIC CONIC

C3 36.462 VHL 6.038 DLA 11.68 RAL 121.62 RAD 6568.4 VEL 12.563 PTH 2.28 VHP 11.313 DPA 12.68 RAP 107.25 ECC 1.6001
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 27 37 2734.22 -27.88 77.04 358.05 95.19 7 13 11 2134.2 -26.86 68.52
 90.00 21 25 43 4635.74 13.61 196.79 350.89 64.93 22 42 59 4035.7 10.12 189.85
 100.00 7 54 53 2452.78 -29.29 56.18 357.89 96.26 8 35 45 1852.8 -28.11 47.57
 100.00 22 41 8 4392.42 14.89 178.27 350.26 63.78 23 54 20 3792.4 11.25 171.37
 110.00 9 16 31 2197.33 -33.06 36.18 357.29 99.24 9 53 8 1597.3 -31.43 27.33
 110.00 23 35 59 4220.63 18.26 163.38 348.41 60.59 24 46 20 3620.6 14.20 156.62

DIFFERENTIAL CORRECTIONS

TDE-1.6070 TRA 4.1348 TC3-2.6768 BAU 1.3053
 RDE .3407 RRA .2505 RC3 -.0716 FAU .01089
 FDE -.4070 FRA 1.0715 FC3 -.2585 BSP 17507
 BDE 1.6428 BRA 4.1424 BC3 2.6778 FSP -332

MID-COURSE EXECUTION ACCURACY

SGT 5369.1 SGR 413.4 SG3 99.4
 RRT .3419 RRF .3239 RTF .9318
 SGB 5385.0 R23 .0039 R13 .9318
 SG1 5370.9 SG2 388.4 THA 1.52

ORBIT DETERMINATION ACCURACY

ST 1944.0 SR 331.4 SS 485.0
 CRT -.6290 CRS .6212 CST -.9995
 LSA 2014.5 MSA 256.4 SSA 14.8
 EL1 1955.4 EL2 256.2 ALF 173.77

LAUNCH DATE MAR 15 1969

FLIGHT TIME 196.00

ARRIVAL DATE SEP 27 1969

HELIOCENTRIC CONIC

DISTANCE 573.631

RL 148.79 LAL .00 LOL 174.24 VL 25.470 GAL 10.26 AZL 92.24 HCA 297.85 SMA 116.90 ECC .32211 INC 2.2418 V1 29.947
 RP 107.51 LAP 1.98 LOP 112.10 VP 36.519 GAP 18.24 AZP 91.05 TAL 156.69 TAP 94.53 RCA 79.25 APO 154.56 V2 35.248
 RC 210.244 GL -8.76 GP -11.29 ZAL 50.88 ZAP 168.27 ETS 257.05 ZAE 133.79 ETE 190.63 ZAC 156.84 ETC 12.70 CLP 176.82

PLANETOCENTRIC CONIC

C3 41.485 VHL 6.441 DLA 10.76 RAL 124.14 RAD 6568.6 VEL 12.761 PTH 2.32 VHP 11.751 DPA 12.67 RAP 109.71 ECC 1.6827
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 6 45 19 2736.02 -27.89 77.17 2.63 95.13 7 30 55 2136.0 -26.88 68.65
 90.00 21 28 7 4699.15 15.41 200.58 355.55 65.94 22 46 26 4099.1 12.03 193.54
 100.00 8 12 3 2456.35 -29.31 56.44 2.47 96.13 8 52 59 1856.3 -28.16 47.83
 100.00 22 44 5 4454.06 16.71 181.94 354.93 64.85 23 58 19 3854.1 13.19 174.93
 110.00 9 32 29 2204.65 -33.14 36.74 1.88 98.91 10 9 13 1604.7 -31.55 27.87
 110.00 23 40 9 4278.51 20.16 166.80 353.10 61.79 24 51 27 3678.5 16.23 159.88

DIFFERENTIAL CORRECTIONS

TDE-1.8284 TRA 4.5776 TC3-2.3128 BAU 1.2831
 RDE .3544 RRA .2604 RC3 -.0573 FAU .00980
 FDE -.4414 FRA 1.1328 FC3 -.2044 BSP 17525
 BDE 1.8624 BRA 4.5850 BC3 2.3135 FSP -327

MID-COURSE EXECUTION ACCURACY

SGT 5357.5 SGR 400.5 SG3 97.6
 RRT .3191 RRF .3041 RTF .9378
 SGB 5372.4 R23 .0035 R13 .9378
 SG1 5359.0 SG2 379.5 THA 1.37

ORBIT DETERMINATION ACCURACY

ST 2049.3 SR 323.1 SS 506.5
 CRT -.6412 CRS .6327 CST -.9995
 LSA 2121.2 MSA 246.9 SSA 13.9
 EL1 2059.9 EL2 246.6 ALF 174.14

LAUNCH DATE MAR 15 1969

FLIGHT TIME 198.00

ARRIVAL DATE SEP 29 1969

HELIOCENTRIC CONIC
 C3 47.458 VHL 6.889 DLA 9.91 RAL 126.46 RAD 6568.8 VEL 12.993 PTH 2.37 VHP 12.235 DPA 12.60 RAP 112.14 ECC 1.7810
 RL 148.79 LAL .00 LOL 174.24 VL 25.425 GAL 11.42 AZL 92.49 HCA 301.08 SMA 116.67 ECC .33475 INC 2.4932 V1 29.947
 RP 107.50 LAP 2.14 LOP 115.34 VP 36.491 GAP 19.05 AZP 91.29 TAL 155.15 TAP 96.23 RCA 77.61 APO 155.72 V2 35.252
 RC 211.773 GL -9.05 GP -11.13 ZAL 48.52 ZAP 168.17 ETS 252.85 ZAE 133.77 ETE 190.44 ZAC 154.48 ETC 12.55 CLP 175.99

PLANETOCENTRIC CONIC
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 1 32 2741.75 -27.92 77.58 7.13 94.92 7 47 14 2141.7 -26.95 69.05
 90.00 21 30 27 4761.08 17.09 204.35 .16 67.07 22 49 48 4161.1 13.84 197.19
 100.00 8 27 46 2463.63 -29.37 56.97 6.98 95.85 9 8 50 1863.6 -28.25 48.35
 100.00 22 46 54 4514.43 18.42 185.61 359.56 66.03 24 2 8 3914.4 15.03 178.46
 110.00 9 47 8 2215.30 -33.25 37.55 6.41 98.45 10 24 3 1615.3 -31.72 28.65
 110.00 23 44 2 4335.52 21.95 170.25 357.77 63.12 24 56 17 3735.5 18.17 163.16

MID-COURSE EXECUTION ACCURACY
 SGT 5340.8 SGR 386.8 SG3 95.8 ST 2138.6 SR 315.0 SS 527.3
 RRT .2937 RRF .2821 RTF .9438 CRT -.6522 CRS .6429 CST -.9996
 SGB 5354.8 R23 .0037 R13 .9439 LSA 2212.3 MSA 237.9 SSA 13.1
 SGI 5342.0 SG2 369.7 THA 1.22 EL1 2148.6 EL2 237.7 ALF 174.45

DIFFERENTIAL CORRECTIONS
 TOE-2.0578 TRA 5.0528 TC3-1.9738 BAU 1.2526
 RDE .3698 RRA .2681 RC3 -.0447 FAU .00866
 FDE -.4756 FRA 1.1994 FC3 -.1580 BSP 17453
 BOE 2.0907 BRA 5.0599 BC3 1.9743 FSP -319

LAUNCH DATE MAR 15 1969

FLIGHT TIME 200.00

ARRIVAL DATE OCT 1 1969

HELIOCENTRIC CONIC
 C3 54.576 VHL 7.388 DLA 9.12 RAL 128.59 RAD 6569.0 VEL 13.264 PTH 2.42 VHP 12.774 DPA 12.49 RAP 114.54 ECC 1.8982
 RL 148.79 LAL .00 LOL 174.24 VL 25.381 GAL 12.68 AZL 92.76 HCA 304.32 SMA 116.44 ECC .34880 INC 2.7623 V1 29.947
 RP 107.49 LAP 2.28 LOP 118.59 VP 36.464 GAP 19.95 AZP 91.56 TAL 153.67 TAP 98.00 RCA 75.82 APO 157.05 V2 35.255
 RC 213.276 GL -9.30 GP -10.99 ZAL 46.35 ZAP 167.99 ETS 248.60 ZAE 133.72 ETE 190.26 ZAC 152.15 ETC 12.42 CLP 175.12

PLANETOCENTRIC CONIC
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 16 18 2751.04 -27.97 78.26 11.55 94.59 8 2 9 2151.0 -27.04 69.72
 90.00 21 32 41 4821.32 18.65 208.09 4.71 68.30 22 53 3 4221.3 15.54 200.79
 100.00 8 42 6 2474.30 -29.44 57.76 11.40 95.44 9 23 21 1874.3 -28.37 49.12
 100.00 22 49 34 4573.28 20.01 189.26 4.12 67.32 24 5 47 3973.3 16.76 181.97
 110.00 10 0 30 2228.97 -33.38 38.59 10.87 97.84 10 37 39 1629.0 -31.94 29.66
 110.00 23 47 40 4391.38 23.63 173.72 2.38 64.55 25 0 51 3791.4 20.01 166.45

MID-COURSE EXECUTION ACCURACY
 SGT 5320.7 SGR 372.0 SG3 94.0 ST 2217.0 SR 306.8 SS 549.0
 RRT .2637 RRF .2556 RTF .9499 CRT -.6645 CRS .6548 CST -.9997
 SGB 5335.7 R23 .0040 R13 .9499 LSA 2293.0 MSA 228.6 SSA 12.3
 SGI 5321.6 SG2 358.8 THA 1.06 EL1 2226.4 EL2 228.3 ALF 174.69

DIFFERENTIAL CORRECTIONS
 TOE-2.3049 TRA 5.5555 TC3-1.6676 BAU 1.2169
 RDE .3868 RRA .2728 RC3 -.0338 FAU .00757
 FDE -.5123 FRA 1.2700 FC3 -.1201 BSP 17472
 BOE 2.3371 BRA 5.5622 BC3 1.6679 FSP -314

LAUNCH DATE MAR 15 1969

FLIGHT TIME 202.00

ARRIVAL DATE OCT 3 1969

HELIOCENTRIC CONIC
 C3 63.088 VHL 7.943 DLA 8.42 RAL 130.54 RAD 6569.2 VEL 13.581 PTH 2.48 VHP 13.375 DPA 12.33 RAP 116.89 ECC 2.0383
 RL 148.79 LAL .00 LOL 174.24 VL 25.338 GAL 14.05 AZL 93.05 HCA 307.56 SMA 116.22 ECC .36446 INC 3.0531 V1 29.947
 RP 107.48 LAP 2.42 LOP 121.84 VP 36.437 GAP 20.96 AZP 91.86 TAL 152.29 TAP 99.85 RCA 73.86 APO 158.58 V2 35.258
 RC 214.754 GL -9.49 GP -10.85 ZAL 44.37 ZAP 167.72 ETS 244.35 ZAE 133.62 ETE 190.07 ZAC 149.86 ETC 12.32 CLP 174.21

PLANETOCENTRIC CONIC
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 29 40 2763.54 -28.04 79.17 15.86 94.13 8 15 43 2163.5 -27.17 70.61
 90.00 21 34 50 4879.62 20.07 211.77 9.18 69.60 22 56 10 4279.6 17.12 204.34
 100.00 8 55 5 2488.03 -29.52 58.77 15.73 94.92 9 36 33 1888.0 -28.53 50.11
 100.00 22 52 6 4630.37 21.46 192.88 8.61 68.68 24 9 16 4030.4 18.38 185.44
 110.00 10 12 38 2245.35 -33.52 39.85 15.23 97.11 10 50 3 1645.4 -32.18 30.88
 110.00 23 51 3 4445.81 25.18 177.19 6.92 66.08 25 5 8 3845.8 21.73 169.73

MID-COURSE EXECUTION ACCURACY
 SGT 5296.5 SGR 356.5 SG3 92.3 ST 2282.4 SR 298.7 SS 571.4
 RRT .2291 RRF .2244 RTF .9559 CRT -.6772 CRS .6671 CST -.9997
 SGB 5308.5 R23 .0046 R13 .9559 LSA 2361.5 MSA 219.3 SSA 11.6
 SGI 5297.1 SG2 347.0 THA .89 EL1 2291.4 EL2 218.9 ALF 174.89

DIFFERENTIAL CORRECTIONS
 TOE-2.5663 TRA 6.0954 TC3-1.3892 BAU 1.1719
 RDE .4057 RRA .2740 RC3 -.0246 FAU .00644
 FDE -.5504 FRA 1.3467 FC3 -.0883 BSP 17474
 BOE 2.5981 BRA 6.1016 BC3 1.3894 FSP -309

LAUNCH DATE MAR 15 1969

FLIGHT TIME 204.00

ARRIVAL DATE OCT 5 1969

HELIOCENTRIC CONIC
 C3 73.315 VHL 8.562 DLA 7.78 RAL 132.30 RAD 6569.4 VEL 13.952 PTH 2.55 VHP 14.050 DPA 12.13 RAP 119.19 ECC 2.2066
 RL 148.79 LAL .00 LOL 174.24 VL 25.297 GAL 15.54 AZL 93.37 HCA 310.80 SMA 116.01 ECC .38197 INC 3.3703 V1 29.947
 RP 107.48 LAP 2.55 LOP 125.09 VP 36.410 GAP 22.08 AZP 92.20 TAL 151.00 TAP 101.80 RCA 71.70 APO 160.32 V2 35.259
 RC 216.204 GL -9.63 GP -10.72 ZAL 42.58 ZAP 167.35 ETS 240.13 ZAE 133.47 ETE 189.88 ZAC 147.62 ETC 12.24 CLP 173.26

PLANETOCENTRIC CONIC
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 41 39 2778.90 -28.11 80.29 20.05 93.58 8 27 58 2178.9 -27.32 71.71
 90.00 21 36 53 4935.71 21.36 215.38 13.53 70.96 22 59 9 4335.7 18.57 207.82
 100.00 9 6 44 2504.46 -29.61 59.98 19.93 94.28 9 48 29 1904.5 -28.70 51.30
 100.00 22 54 29 4685.38 22.78 196.43 12.99 70.11 24 12 34 4085.4 19.87 188.85
 110.00 10 23 32 2264.12 -33.67 41.30 19.19 96.27 11 1 16 1664.1 -32.44 32.28
 110.00 23 54 11 4498.49 26.59 180.63 11.38 67.68 25 9 9 3898.5 23.32 172.99

MID-COURSE EXECUTION ACCURACY
 SGT 5267.8 SGR 340.4 SG3 90.7 ST 2335.5 SR 290.8 SS 595.0
 RRT .1887 RRF .1876 RTF .9616 CRT -.6907 CRS .6802 CST -.9997
 SGB 5278.8 R23 .0056 R13 .9616 LSA 2418.4 MSA 209.9 SSA 10.9
 SGI 5268.2 SG2 334.3 THA .70 EL1 2344.2 EL2 209.5 ALF 175.04

DIFFERENTIAL CORRECTIONS
 TOE-2.8438 TRA 6.6765 TC3-1.1377 BAU 1.1152
 RDE .4268 RRA .2710 RC3 -.0170 FAU .00523
 FDE -.5906 FRA 1.4307 FC3 -.0618 BSP 17455
 BOE 2.8756 BRA 6.6820 BC3 1.1378 FSP -304

LAUNCH DATE MAR 15 1969

FLIGHT TIME 206.00

ARRIVAL DATE OCT 7 1969

HELIOCENTRIC CONIC

DISTANCE 593.168

RL 148.79 LAL .00 LOL 174.24 VL 25.258 GAL 17.18 AZL 93.72 HCA 314.04 SMA 115.81 ECC .40162 INC 3.7203 V1 29.947
 RP 107.47 LAP 2.67 LOP 128.34 VP 36.383 GAP 23.34 AZP 92.59 TAL 149.83 TAP 103.87 RCA 69.30 APO 162.32 V2 35.260
 RC 217.629 GL -9.74 GP -10.61 ZAL 40.97 ZAP 166.89 ETS 235.95 ZAE 133.25 ETE 189.67 ZAC 145.44 ETC 12.18 CLP 172.24

PLANETOCENTRIC CONIC

C3 85.668 VHL 9.256 DLA 7.22 RAL 133.87 RAD 6569.7 VEL 14.388 PTH 2.62 VHP 14.811 DPA 11.89 RAP 121.42 ECC 2.4099
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 7 52 16 2796.79 -28.18 81.59 24.09 92.93 8 38 53 2196.8 -27.47 73.00
 90.00 21 38 50 4989.26 22.51 218.89 17.75 72.35 23 2 0 4389.3 19.89 211.20
 100.00 9 17 4 2523.28 -29.70 61.38 23.99 93.56 9 59 8 1923.3 -28.89 52.67
 100.00 22 56 43 4738.01 23.96 199.90 17.24 71.57 24 15 41 4138.0 21.22 192.17
 110.00 10 33 13 2284.96 -33.82 42.91 23.62 95.32 11 11 18 1685.0 -32.71 33.84
 110.00 0 1 0 4549.09 27.85 184.03 15.70 69.33 1 16 49 3949.1 24.78 176.20

DIFFERENTIAL CORRECTIONS

TDE-3.1359 TRA 7.3085 TC3 -.9103 BAU 1.0426
 RDE .4505 RRA .2628 RC3 -.0108 FAU .00388
 FDE -.6325 FRA 1.5239 FC3 -.0392 BSP 17321
 BOE 3.1681 BRA 7.3132 BC3 .9103 FSP -297

MID-COURSE EXECUTION ACCURACY

SGT 5234.9 SGR 324.2 SG3 89.1
 RRT .1417 RRF .1443 RTF .9670
 SGB 5245.0 R23 .0069 R13 .9670
 SG1 5235.2 SG2 320.9 THA .50

ORBIT DETERMINATION ACCURACY

ST 2375.4 SR 283.2 SS 619.9
 CRT -.7047 CRS .6936 CST -.9997
 LSA 2463.1 MSA 200.7 SSA 10.3
 EL1 2383.9 EL2 200.2 ALF 175.16

LAUNCH DATE MAR 15 1969

FLIGHT TIME 208.00

ARRIVAL DATE OCT 9 1969

HELIOCENTRIC CONIC

DISTANCE 595.854

RL 148.79 LAL .00 LOL 174.24 VL 25.220 GAL 19.00 AZL 94.11 HCA 317.28 SMA 115.62 ECC .42373 INC 4.1107 V1 29.947
 RP 107.47 LAP 2.79 LOP 131.59 VP 36.358 GAP 24.76 AZP 93.02 TAL 148.80 TAP 106.08 RCA 66.63 APO 164.61 V2 35.261
 RC 219.026 GL -9.81 GP -10.49 ZAL 39.56 ZAP 166.31 ETS 231.85 ZAE 132.96 ETE 189.46 ZAC 143.32 ETC 12.13 CLP 171.15

PLANETOCENTRIC CONIC

C3 100.686 VHL 10.034 DLA 6.74 RAL 135.26 RAD 6569.9 VEL 14.901 PTH 2.69 VHP 15.673 DPA 11.63 RAP 123.58 ECC 2.6570
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 1 31 2816.91 -28.24 83.06 27.96 92.19 8 48 28 2216.9 -27.64 74.44
 90.00 21 40 41 5039.90 23.52 222.26 21.80 73.75 23 4 41 4439.9 21.06 214.44
 100.00 9 26 5 2544.17 -29.78 62.92 27.88 92.74 10 8 29 1944.2 -29.08 54.19
 100.00 22 58 48 4787.87 24.99 203.24 21.31 73.04 24 18 36 4187.9 22.43 195.38
 110.00 10 41 41 2307.58 -33.95 44.66 27.58 94.29 11 20 8 1707.6 -32.98 35.56
 110.00 0 3 38 4597.22 28.96 187.33 19.87 71.00 1 20 15 3997.2 26.10 179.32

DIFFERENTIAL CORRECTIONS

TDE-3.4544 TRA 7.9883 TC3 -.7099 BAU .9556
 RDE .4770 RRA .2483 RC3 -.0062 FAU .00244
 FDE -.6788 FRA 1.6257 FC3 -.0209 BSP 17302
 BOE 3.4872 BRA 7.9921 BC3 .7099 FSP -293

MID-COURSE EXECUTION ACCURACY

SGT 5197.8 SGR 307.8 SG3 87.5
 RRT .0852 RRF .0911 RTF .9722
 SGB 5206.9 R23 .0080 R13 .9722
 SG1 5197.8 SG2 306.7 THA .29

ORBIT DETERMINATION ACCURACY

ST 2406.5 SR 275.7 SS 647.8
 CRT -.7207 CRS .7093 CST -.9997
 LSA 2500.1 MSA 191.0 SSA 9.6
 EL1 2414.7 EL2 190.5 ALF 175.25

LAUNCH DATE MAR 15 1969

FLIGHT TIME 210.00

ARRIVAL DATE OCT 11 1969

HELIOCENTRIC CONIC

DISTANCE 597.874

RL 148.79 LAL .00 LOL 174.24 VL 25.185 GAL 21.02 AZL 94.55 HCA 320.51 SMA 115.44 ECC .44871 INC 4.5520 V1 29.947
 RP 107.47 LAP 2.89 LOP 134.84 VP 36.333 GAP 26.39 AZP 93.52 TAL 147.96 TAP 108.47 RCA 63.64 APO 167.24 V2 35.260
 RC 220.396 GL -9.84 GP -10.39 ZAL 38.34 ZAP 165.60 ETS 227.84 ZAE 132.58 ETE 189.22 ZAC 141.30 ETC 12.11 CLP 169.98

PLANETOCENTRIC CONIC

C3 119.082 VHL 10.912 DLA 6.34 RAL 136.46 RAD 6570.2 VEL 15.505 PTH 2.77 VHP 16.655 DPA 11.35 RAP 125.64 ECC 2.9598
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 9 21 2838.98 -28.29 84.67 31.63 91.39 8 56 40 2239.0 -27.79 76.04
 90.00 21 42 24 5087.21 24.38 225.45 25.62 75.13 23 7 11 4487.2 22.10 217.52
 100.00 9 33 43 2566.89 -29.84 64.61 31.58 91.86 10 16 29 1966.9 -29.26 55.85
 100.00 23 0 44 4834.53 25.88 206.42 25.17 74.49 24 21 18 4234.5 23.50 198.43
 110.00 10 48 51 2331.72 -34.05 46.54 31.36 93.19 11 27 43 1731.7 -33.24 37.39
 110.00 0 6 0 4642.47 29.92 190.50 25.82 72.65 1 23 22 4042.5 27.26 182.32

DIFFERENTIAL CORRECTIONS

TDE-3.7966 TRA 8.7288 TC3 -.5318 BAU .8466
 RDE .5071 RRA .2262 RC3 -.0029 FAU .00076
 FDE -.7291 FRA 1.7392 FC3 -.0055 BSP 17256
 BOE 3.8303 BRA 8.7317 BC3 .5318 FSP -288

MID-COURSE EXECUTION ACCURACY

SGT 5156.0 SGR 291.9 SG3 86.0
 RRT .0183 RRF .0272 RTF .9769
 SGB 5164.3 R23 .0093 R13 .9769
 SG1 5156.0 SG2 291.9 THA .06

ORBIT DETERMINATION ACCURACY

ST 2426.6 SR 268.7 SS 678.8
 CRT -.7381 CRS .7263 CST -.9998
 LSA 2527.6 MSA 181.3 SSA 9.0
 EL1 2434.8 EL2 180.7 ALF 175.30

LAUNCH DATE MAR 15 1969

FLIGHT TIME 212.00

ARRIVAL DATE OCT 13 1969

HELIOCENTRIC CONIC

DISTANCE 599.048

RL 148.79 LAL .00 LOL 174.24 VL 25.153 GAL 23.28 AZL 95.06 HCA 323.74 SMA 115.27 ECC .47701 INC 5.0583 V1 29.947
 RP 107.48 LAP 2.99 LOP 138.09 VP 36.309 GAP 28.25 AZP 94.08 TAL 147.33 TAP 111.07 RCA 60.29 APO 170.26 V2 35.259
 RC 221.738 GL -9.85 GP -10.28 ZAL 37.33 ZAP 164.76 ETS 223.92 ZAE 132.09 ETE 188.96 ZAC 139.38 ETC 12.09 CLP 168.69

PLANETOCENTRIC CONIC

C3 141.805 VHL 11.908 DLA 6.03 RAL 137.46 RAD 6570.5 VEL 16.221 PTH 2.85 VHP 17.780 DPA 11.07 RAP 127.59 ECC 3.3337
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 15 41 2862.82 -28.31 86.42 35.06 90.51 9 3 24 2262.8 -27.94 77.77
 90.00 21 43 59 5130.68 25.11 228.43 29.18 76.45 23 9 30 4530.7 22.99 220.40
 100.00 9 39 54 2591.23 -29.88 66.42 35.04 90.91 10 23 5 1991.2 -29.43 57.64
 100.00 23 2 28 4877.51 26.63 209.40 28.76 75.89 24 23 46 4277.5 24.42 201.29
 110.00 10 54 41 2357.15 -34.13 48.52 34.91 92.02 11 33 59 1757.1 -33.47 39.34
 110.00 0 8 6 4684.35 30.74 193.49 27.52 74.25 1 26 10 4084.4 28.27 185.16

DIFFERENTIAL CORRECTIONS

TDE-4.1650 TRA 9.5382 TC3 -.3746 BAU .7102
 RDE .5415 RRA .1945 RC3 -.0008 FAU .00123
 FDE -.7842 FRA 1.8663 FC3 .0075 BSP 17183
 BOE 4.2001 BRA 9.5402 BC3 .3746 FSP -284

MID-COURSE EXECUTION ACCURACY

SGT 5109.7 SGR 277.8 SG3 84.6
 RRT -.0607 RRF -.0492 RTF .9812
 SGB 5117.2 R23 -.0106 R13 -.9812
 SG1 5109.7 SG2 276.5 THA 179.81

ORBIT DETERMINATION ACCURACY

ST 2435.9 SR 262.1 SS 713.5
 CRT -.7567 CRS .7447 CST -.9998
 LSA 2545.9 MSA 171.5 SSA 8.4
 EL1 2444.0 EL2 170.8 ALF 175.32

LAUNCH DATE MAR 15 1969

FLIGHT TIME 214.00

ARRIVAL DATE OCT 15 1969

HELIOCENTRIC CONIC

DISTANCE 599.135

RL 148.79 LAL .00 LOL 174.24 VL 25.124 GAL 25.84 AZL 95.65 MCA 326.97 SMA 115.13 ECC .50917 INC 5.6490 V1 29.947
 RP 107.48 LAP 3.08 LOP 141.34 VP 36.287 GAP 30.39 AZP 94.74 TAL 146.96 TAP 113.93 RCA 56.51 APO 173.75 V2 35.257
 RC 223.054 GL -9.82 GP -10.17 ZAL 36.55 ZAP 163.76 ETS 220.11 ZAE 131.46 ETE 188.67 ZAC 137.59 ETC 12.10 CLP 167.27

PLANETOCENTRIC CONIC

C3 170.130 VHL 13.043 DLA 5.82 RAL 138.23 RAD 6570.8 VEL 17.072 PTH 2.93 VHP 19.078 DPA 10.79 RAP 129.40 ECC 3.7999
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 20 25 2888.31 -28.31 88.28 38.22 89.58 9 8 33 2288.3 -28.07 79.62
 90.00 21 45 26 5169.75 25.70 231.14 32.41 77.69 23 11 36 4569.8 23.75 223.01
 100.00 9 44 31 2617.06 -29.89 68.34 38.23 89.90 10 28 8 2017.1 -29.59 59.55
 100.00 23 4 1 4916.23 27.24 212.11 32.03 77.19 24 25 58 4316.2 25.20 203.90
 110.00 10 59 4 2383.73 -34.18 50.59 38.20 90.79 11 38 48 1783.7 -33.69 41.38
 110.00 0 9 53 4722.32 31.41 196.25 30.88 75.75 1 28 36 4122.3 29.13 187.78

DIFFERENTIAL CORRECTIONS

TDE-4.5588 TRA10.4285 TC3 -.2358 BAU .5364
 RDE .5811 RRA .1513 RC3 .0001 FAU-.00369
 FDE -.8442 FRA 2.0103 FC3 .0188 BSP 16988
 BOE 4.5956 BRA10.4296 BC3 .2358 FSP -278

MID-COURSE EXECUTION ACCURACY

SGT 5058.8 SGR 263.9 SG3 83.2
 RRT -.1526 RRF -.1391 RTF .9850
 SGB 5065.7 R23 -.0118 R13 -.9850
 SG1 5059.0 SG2 260.8 THA 179.54

ORBIT DETERMINATION ACCURACY

ST 2432.8 SR 256.0 SS 752.5
 CRT -.7762 CRS .7641 CST -.9998
 LSA 2554.3 MSA 161.9 SSA 7.9
 EL1 2441.0 EL2 160.9 ALF 175.31

LAUNCH DATE MAR 15 1969

FLIGHT TIME 216.00

ARRIVAL DATE OCT 17 1969

HELIOCENTRIC CONIC

DISTANCE 597.813

RL 148.79 LAL .00 LOL 174.24 VL 25.098 GAL 28.76 AZL 96.35 MCA 330.20 SMA 115.00 ECC .54576 INC 6.3519 V1 29.947
 RP 107.49 LAP 3.15 LOP 144.59 VP 36.267 GAP 32.89 AZP 95.52 TAL 146.92 TAP 117.12 RCA 52.24 APO 177.76 V2 35.254
 RC 224.343 GL -9.77 GP -10.06 ZAL 36.02 ZAP 162.56 ETS 216.40 ZAE 130.67 ETE 188.35 ZAC 135.96 ETC 12.13 CLP 165.68

PLANETOCENTRIC CONIC

C3 205.784 VHL 14.345 DLA 5.71 RAL 138.76 RAD 6571.2 VEL 18.086 PTH 3.01 VHP 20.583 DPA 10.54 RAP 131.05 ECC 4.3867
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 23 22 2915.44 -28.28 90.26 41.05 88.58 9 11 57 2315.4 -28.18 81.60
 90.00 21 46 43 5203.75 26.17 233.52 35.25 78.79 23 13 27 4603.8 24.36 225.32
 100.00 9 47 24 2644.36 -29.87 70.37 41.09 88.83 10 31 29 2044.4 -29.71 61.57
 100.00 23 5 22 4950.06 27.73 214.51 34.90 78.36 24 27 52 4350.1 25.84 206.22
 110.00 11 1 50 2411.41 -34.18 52.76 41.17 89.51 11 42 2 1811.4 -33.87 43.53
 110.00 0 11 21 4755.77 31.94 198.71 33.85 77.12 1 30 37 4155.8 29.84 190.13

DIFFERENTIAL CORRECTIONS

TDE-4.9898 TRA11.3971 TC3 -.1166 BAU .3207
 RDE .6273 RRA .0937 RC3 -.0000 FAU-.00671
 FDE -.9122 FRA 2.1718 FC3 .0282 BSP 16912
 BOE 5.0291 BRA11.3975 BC3 .1166 FSP -275

MID-COURSE EXECUTION ACCURACY

SGT 5001.3 SGR 253.4 SG3 81.9
 RRT -.2583 RRF -.2435 RTF .9883
 SGB 5007.7 R23 -.0128 R13 -.9883
 SG1 5001.7 SG2 244.7 THA 179.25

ORBIT DETERMINATION ACCURACY

ST 2419.8 SR 250.8 SS 797.6
 CRT -.7973 CRS .7853 CST -.9998
 LSA 2555.7 MSA 152.0 SSA 7.3
 EL1 2428.1 EL2 150.9 ALF 175.26

LAUNCH DATE MAR 15 1969

FLIGHT TIME 218.00

ARRIVAL DATE OCT 19 1969

HELIOCENTRIC CONIC

DISTANCE 594.664

RL 148.79 LAL .00 LOL 174.24 VL 25.078 GAL 32.11 AZL 97.21 MCA 333.42 SMA 114.90 ECC .58737 INC 7.2079 V1 29.947
 RP 107.50 LAP 3.22 LOP 147.84 VP 36.249 GAP 35.81 AZP 96.45 TAL 147.28 TAP 120.71 RCA 47.41 APO 182.39 V2 35.250
 RC 225.606 GL -9.68 GP -9.94 ZAL 35.77 ZAP 161.14 ETS 212.80 ZAE 129.67 ETE 187.98 ZAC 134.53 ETC 12.17 CLP 163.89

PLANETOCENTRIC CONIC

C3 251.112 VHL 15.847 DLA 5.72 RAL 139.01 RAD 6571.5 VEL 19.298 PTH 3.10 VHP 22.338 DPA 10.32 RAP 132.49 ECC 5.1327
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 24 17 2944.33 -28.22 92.37 43.51 87.53 9 13 21 2344.3 -28.26 83.71
 90.00 21 47 49 5231.92 26.53 235.50 37.63 79.72 23 15 1 4631.9 24.84 227.24
 100.00 9 48 20 2673.24 -29.81 72.51 43.59 87.70 10 32 53 2073.2 -29.81 63.71
 100.00 23 6 27 4978.25 28.10 216.52 37.31 79.36 24 29 25 4378.2 26.34 208.16
 110.00 11 2 47 2440.25 -34.14 55.01 43.77 88.18 11 43 27 1840.3 -34.02 45.77
 110.00 0 12 26 4784.00 32.35 200.81 36.33 78.30 1 32 10 4184.0 30.40 192.14

DIFFERENTIAL CORRECTIONS

TDE-5.4518 TRA12.4558 TC3 -.0138 BAU .0466
 RDE .6818 RRA .0183 RC3 -.0011 FAU-.01058
 FDE -.9878 FRA 2.3550 FC3 .0365 BSP 16787
 BOE 5.4942 BRA12.4558 BC3 .0139 FSP -271

MID-COURSE EXECUTION ACCURACY

SGT 4937.0 SGR 246.6 SG3 80.7
 RRT -.3743 RRF -.3591 RTF .9911
 SGB 4943.1 R23 -.0136 R13 -.9910
 SG1 4937.8 SG2 228.7 THA 178.93

ORBIT DETERMINATION ACCURACY

ST 2393.6 SR 246.5 SS 848.9
 CRT -.8189 CRS .8072 CST -.9998
 LSA 2547.6 MSA 142.4 SSA 6.7
 EL1 2402.1 EL2 141.0 ALF 175.16

LAUNCH DATE MAR 15 1969

FLIGHT TIME 220.00

ARRIVAL DATE OCT 21 1969

HELIOCENTRIC CONIC

DISTANCE 589.147

RL 148.79 LAL .00 LOL 174.24 VL 25.063 GAL 35.99 AZL 98.28 MCA 336.64 SMA 114.83 ECC .63453 INC 8.2805 V1 29.947
 RP 107.52 LAP 3.27 LOP 151.09 VP 36.235 GAP 39.24 AZP 97.61 TAL 148.15 TAP 124.79 RCA 41.97 APO 187.69 V2 35.246
 RC 226.842 GL -9.56 GP -9.80 ZAL 35.85 ZAP 159.44 ETS 209.30 ZAE 128.42 ETE 187.56 ZAC 133.34 ETC 12.25 CLP 161.84

PLANETOCENTRIC CONIC

C3 309.288 VHL 17.587 DLA 5.87 RAL 138.94 RAD 6571.8 VEL 20.751 PTH 3.18 VHP 24.394 DPA 10.17 RAP 133.69 ECC 6.0901
 LNCH AZMTH LNCH TIME L-I TIME INJ LAT INJ LONG INJ RT ASC INJ AZMTH INJ TIME PO CST TIM INJ 2 LAT INJ 2 LONG
 90.00 8 22 52 2975.30 -28.11 94.63 45.55 86.40 9 12 27 2375.3 -28.31 85.97
 90.00 21 48 41 5253.37 26.78 237.02 39.46 80.44 23 16 15 4653.4 25.19 228.72
 100.00 9 46 59 2703.96 -29.71 74.79 45.66 86.51 10 32 3 2104.0 -29.87 65.99
 100.00 23 7 15 4999.93 28.36 218.08 39.16 80.14 24 30 35 4399.9 26.71 209.67
 110.00 11 1 36 2470.45 -34.05 57.36 45.96 86.79 11 42 46 1870.4 -34.12 48.12
 110.00 0 13 4 4806.21 32.64 202.48 38.25 79.24 1 33 10 4206.2 30.82 193.73

DIFFERENTIAL CORRECTIONS

TDE-5.9410 TRA13.6029 TC3 .0733 BAU .3033
 RDE .7464 RRA -.0789 RC3 -.0030 FAU-.01562
 FDE-1.0718 FRA 2.5625 FC3 .0437 BSP 16617
 BOE 5.9877 BRA13.6031 BC3 .0733 FSP -268

MID-COURSE EXECUTION ACCURACY

SGT 4864.2 SGR 244.8 SG3 79.7
 RRT -.4943 RRF -.4796 RTF .9933
 SGB 4870.4 R23 -.0142 R13 -.9933
 SG1 4865.7 SG2 212.7 THA 178.57

ORBIT DETERMINATION ACCURACY

ST 2352.2 SR 243.3 SS 907.4
 CRT -.8406 CRS .8293 CST -.9998
 LSA 2529.3 MSA 133.0 SSA 6.2
 EL1 2361.1 EL2 131.3 ALF 175.02

